

RadaeePDF SDK Classic

Android and Java version

1 Hierarchical Index	1
1.1 Class Hierarchy	1
2 Class Index	5
2.1 Class List	5
3 Class Documentation	9
3.1 com.radaee.util.PopupEditAct.ActRetListener Interface Reference	9
3.2 com.radaee.pdf.BMDatabase Class Reference	9
3.2.1 Detailed Description	10
3.2.2 Member Function Documentation	10
3.2.2.1 Close()	10
3.2.2.2 OpenOrCreate()	10
3.2.2.3 RecClose()	10
3.2.2.4 RecGetCount()	11
3.2.2.5 RecltemGetName()	11
3.2.2.6 RecltemGetPage()	11
3.2.2.7 RecltemInsert()	12
3.2.2.8 RecltemRemove()	12
3.2.2.9 RecOpen()	13
3.3 com.radaee.pdf.BMP Class Reference	13
3.3.1 Member Function Documentation	13
3.3.1.1 Create()	13
3.3.1.2 DrawRect()	14
3.3.1.3 MulAlpha()	14
3.3.1.4 RestorePixs()	14
3.3.1.5 SavePixs()	15
3.4 com.radaee.util.BookmarkHandler Class Reference	15
3.5 com.radaee.util.BookmarkHandler.BookmarkListener Interface Reference	16
3.6 com.radaee.util.BookmarkHandler.BookmarkStatus Enum Reference	16
3.7 com.radaee.reader.GLCanvas.CanvasListener Interface Reference	16
3.8 com.radaee.util.ComboList Class Reference	17
3.9 com.radaee.util.CommonUtil Class Reference	17
3.9.1 Detailed Description	18
3.9.2 Member Function Documentation	18
3.9.2.1 creatImageForm()	18
3.9.2.2 getCurrentDate()	18
3.9.2.3 signField() [1/2]	19
3.9.2.4 signField() [2/2]	19
3.10 com.radaee.pdf.DIB Class Reference	20
3.10.1 Member Function Documentation	20
3.10.1.1 DrawToBmp2()	20
3.10.1.2 MakeGray()	21

3.10.1.3 RestorePixs()	21
3.10.1.4 SavePixs()	21
3.11 com.radaee.pdf.Document.DocFont Class Reference	22
3.11.1 Member Function Documentation	22
3.11.1.1 GetAscent()	22
3.11.1.2 GetDescent()	22
3.12 com.radaee.pdf.Document.DocForm Class Reference	22
3.12.1 Member Function Documentation	23
3.12.1.1 AddResFont()	23
3.12.1.2 AddResForm()	23
3.12.1.3 AddResGState()	24
3.12.1.4 AddResImage()	24
3.12.1.5 SetContent()	24
3.12.1.6 SetTransparency()	25
3.13 com.radaee.pdf.Document.DocGState Class Reference	25
3.13.1 Member Function Documentation	25
3.13.1.1 SetBlendMode()	25
3.13.1.2 SetFillAlpha()	26
3.13.1.3 SetStrokeAlpha()	26
3.13.1.4 SetStrokeDash()	27
3.14 com.radaee.pdf.Document.DocImage Class Reference	27
3.15 com.radaee.pdf.Document Class Reference	27
3.15.1 Detailed Description	29
3.15.2 Constructor & Destructor Documentation	30
3.15.2.1 Document()	30
3.15.3 Member Function Documentation	30
3.15.3.1 Advance_GetObj()	30
3.15.3.2 Advance_GetRef()	30
3.15.3.3 Advance_NewFlateStream()	31
3.15.3.4 Advance_NewIndirectAndCopyObj()	31
3.15.3.5 Advance_NewIndirectObj()	31
3.15.3.6 Advance_NewRawStream()	32
3.15.3.7 Advance_Reload()	32
3.15.3.8 CanSave()	32
3.15.3.9 ChangePageRect()	33
3.15.3.10 Close()	33
3.15.3.11 Create()	33
3.15.3.12 CreateForStream()	34
3.15.3.13 EncryptAs()	34
3.15.3.14 ExportForm()	35
3.15.3.15 GetEmbedFileData()	35
3.15.3.16 GetEmbedFileDesc()	35
3.15.3.17 GetEmbedFileName()	36

3.15.3.18 GetEmbedFilesCount()	36
3.15.3.19 GetID()	36
3.15.3.20 GetJS()	37
3.15.3.21 GetJSCount()	37
3.15.3.22 GetJSName()	37
3.15.3.23 GetLinearizedStatus()	38
3.15.3.24 GetMeta()	38
3.15.3.25 GetOutlines()	39
3.15.3.26 GetPage()	39
3.15.3.27 GetPage0()	39
3.15.3.28 GetPageCount()	40
3.15.3.29 GetPageHeight()	40
3.15.3.30 GetPageLabel()	40
3.15.3.31 GetPagesMaxSize()	41
3.15.3.32 GetPageWidth()	41
3.15.3.33 GetPerm()	41
3.15.3.34 GetPermission()	42
3.15.3.35 GetXMP()	42
3.15.3.36 ImportStart()	42
3.15.3.37 IsEncrypted()	43
3.15.3.38 IsOpened()	43
3.15.3.39 MovePage()	43
3.15.3.40 NewFontCID()	44
3.15.3.41 NewForm()	44
3.15.3.42 NewGState()	45
3.15.3.43 NewImage() [1/2]	45
3.15.3.44 NewImage() [2/2]	45
3.15.3.45 NewImageByMem()	46
3.15.3.46 NewImageJPEG()	46
3.15.3.47 NewImageJPX()	47
3.15.3.48 NewPage()	47
3.15.3.49 NewRootOutline()	47
3.15.3.50 Open() [1/2]	48
3.15.3.51 Open() [2/2]	48
3.15.3.52 OpenMem() [1/2]	49
3.15.3.53 OpenMem() [2/2]	49
3.15.3.54 OpenStream()	50
3.15.3.55 RemovePage()	50
3.15.3.56 RunJS()	52
3.15.3.57 Save()	52
3.15.3.58 SaveAs()	53
3.15.3.59 SetCache()	53
3.15.3.60 SetFontDel()	53

3.15.3.61 SetMeta()	54
3.15.3.62 SetOpenFlag()	54
3.15.3.63 SetPageRotate()	55
3.15.3.64 SetXMP()	55
3.15.3.65 VerifySign()	55
3.16 com.radaee.util.FileBrowserView Class Reference	56
3.17 com.radaee.pdf.Page.Finder Class Reference	57
3.17.1 Member Function Documentation	57
3.17.1.1 Close()	57
3.17.1.2 GetCount()	57
3.17.1.3 GetFirstChar()	57
3.18 com.radaee.view.GLBlock Class Reference	58
3.19 com.radaee.reader.GLCanvas Class Reference	59
3.20 com.radaee.view.GLLayout Class Reference	59
3.20.1 Member Function Documentation	61
3.20.1.1 gl_render()	61
3.20.1.2 gl_resize()	61
3.21 com.radaee.view.GLLayoutCurl Class Reference	62
3.21.1 Member Function Documentation	62
3.21.1.1 gl_click()	63
3.21.1.2 gl_close()	63
3.21.1.3 gl_down()	63
3.21.1.4 gl_draw()	63
3.21.1.5 gl_fling()	63
3.21.1.6 gl_layout()	64
3.21.1.7 gl_move()	64
3.21.1.8 gl_move_end()	64
3.21.1.9 gl_surface_destroy()	64
3.21.1.10 vGetPage()	64
3.21.1.11 vGetPos()	65
3.21.1.12 vGotoPage()	65
3.21.1.13 vScrolltoPage()	65
3.21.1.14 vSetPos()	65
3.21.1.15 vSupportZoom()	65
3.22 com.radaee.view.GLLayoutDual Class Reference	66
3.22.1 Member Function Documentation	66
3.22.1.1 gl_draw()	67
3.22.1.2 gl_fling()	67
3.22.1.3 gl_flush_range()	67
3.22.1.4 gl_layout()	67
3.22.1.5 gl_move_end()	67
3.22.1.6 gl_zoom_confirm()	68
3.22.1.7 gl_zoom_set_pos()	68

3.22.1.8 vGetPage()	68
3.22.1.9 vGotoPage()	68
3.22.1.10 vScrolltoPage()	68
3.23 com.radaee.view.GLLayoutDual2 Class Reference	69
3.23.1 Member Function Documentation	69
3.23.1.1 gl_fling()	69
3.23.1.2 gl_layout()	70
3.23.1.3 gl_move_end()	70
3.23.1.4 gl_zoom_confirm()	70
3.23.1.5 gl_zoom_set_pos()	70
3.23.1.6 vGetPage()	70
3.23.1.7 vGotoPage()	71
3.23.1.8 vScrolltoPage()	71
3.24 com.radaee.view.GLLayoutHorz Class Reference	71
3.24.1 Member Function Documentation	71
3.24.1.1 gl_layout()	71
3.24.1.2 vGetPage()	72
3.25 com.radaee.view.GLLayoutReflow Class Reference	72
3.25.1 Member Function Documentation	72
3.25.1.1 gl_click()	73
3.25.1.2 gl_close()	73
3.25.1.3 gl_draw()	73
3.25.1.4 gl_layout()	73
3.25.1.5 gl_surface_create()	73
3.25.1.6 gl_surface_destroy()	74
3.25.1.7 gl_zoom_confirm()	74
3.25.1.8 gl_zoom_start()	74
3.25.1.9 vCanSave()	74
3.25.1.10 vFindStart()	74
3.25.1.11 vGetPage()	75
3.25.1.12 vGetPos()	75
3.25.1.13 vGotoPage()	75
3.25.1.14 vScrolltoPage()	75
3.25.1.15 vSetPos()	75
3.25.1.16 vSupportZoom()	76
3.26 com.radaee.view.GLLayoutVert Class Reference	76
3.26.1 Member Function Documentation	76
3.26.1.1 gl_layout()	76
3.26.1.2 vGetPage()	77
3.27 com.radaee.view.GLLayout.GLListener Interface Reference	77
3.27.1 Detailed Description	77
3.28 com.radaee.pdf.Global Class Reference	77
3.28.1 Detailed Description	79

3.28.2 Member Function Documentation	79
3.28.2.1 default_config()	79
3.28.2.2 drawAnnotIcon()	79
3.28.2.3 DrawScroll()	80
3.28.2.4 hideAnnots()	80
3.28.2.5 Init()	80
3.28.2.6 RemoveTmp()	81
3.28.2.7 setAnnotTransparency()	81
3.28.2.8 ToDIBPoint() [1/2]	81
3.28.2.9 ToDIBPoint() [2/2]	81
3.28.2.10 ToDIBRect() [1/2]	82
3.28.2.11 ToDIBRect() [2/2]	82
3.28.2.12 ToPDFPoint() [1/2]	83
3.28.2.13 ToPDFPoint() [2/2]	83
3.28.2.14 ToPDFRect() [1/2]	83
3.28.2.15 ToPDFRect() [2/2]	84
3.28.3 Member Data Documentation	84
3.28.3.1 annotTransparencyColor	84
3.28.3.2 dark_mode	84
3.28.3.3 ellipse_annot_width	84
3.28.3.4 findPrimaryColor	85
3.28.3.5 findSecondaryColor	85
3.28.3.6 fling_dis	85
3.28.3.7 fling_speed	85
3.28.3.8 g_auto_launch_link	85
3.28.3.9 g_auto_save_doc	85
3.28.3.10 g_case_sensitive	85
3.28.3.11 g_def_view	86
3.28.3.12 g_match_whole_word	86
3.28.3.13 g_view_zoom_level	86
3.28.3.14 inkColor	86
3.28.3.15 inkWidth	86
3.28.3.16 line_annot_width	86
3.28.3.17 navigationMode	86
3.28.3.18 readerViewBgColor	87
3.28.3.19 rect_annot_width	87
3.28.3.20 selColor	87
3.28.3.21 thumbGridBgColor	87
3.28.3.22 thumbGridElementGap	87
3.28.3.23 thumbGridElementHeight	87
3.28.3.24 thumbGridViewMode	87
3.28.3.25 thumbViewBgColor	87
3.28.3.26 thumbViewHeight	88

3.28.3.27 tmp_path	88
3.29 com.radaee.view.GLPage Class Reference	88
3.29.1 Member Function Documentation	89
3.29.1.1 CreateInvertMatrix()	89
3.29.1.2 GetPageNo()	89
3.29.1.3 GetVX()	89
3.29.1.4 GetVY()	90
3.29.1.5 gl_draw2()	90
3.29.1.6 ToDIBX()	90
3.29.1.7 ToDIBY()	91
3.29.1.8 ToPDFSize()	91
3.29.1.9 ToPDFX()	91
3.29.1.10 ToPDFY()	92
3.30 com.radaee.view.GLReflowBlock Class Reference	92
3.31 com.radaee.view.GLReflowCanvas Class Reference	93
3.32 com.radaee.view.GLThread Class Reference	93
3.33 com.radaee.reader.GLView Class Reference	94
3.33.1 Member Function Documentation	95
3.33.1.1 drawLayer()	95
3.33.1.2 surfaceCreated()	95
3.34 com.radaee.util.PDFHttpStream.HttpDownloadThread Class Reference	96
3.35 com.radaee.util.PDFHttpStream.HttpThread Class Reference	96
3.35.1 Detailed Description	97
3.36 com.radaee.pdf.HWriting Class Reference	97
3.36.1 Detailed Description	97
3.36.2 Constructor & Destructor Documentation	97
3.36.2.1 HWriting()	97
3.36.3 Member Function Documentation	98
3.36.3.1 Destroy()	98
3.36.3.2 OnDown()	98
3.36.3.3 OnDraw()	98
3.36.3.4 OnMove()	99
3.36.3.5 OnUp()	99
3.37 com.radaee.view.ILayoutView Interface Reference	99
3.37.1 Member Function Documentation	100
3.37.1.1 PDFClose()	100
3.37.1.2 PDFOpen()	101
3.37.1.3 PDFSetEditbox()	101
3.37.1.4 PDFSetEllipse()	101
3.37.1.5 PDFSetInk()	102
3.37.1.6 PDFSetLine()	102
3.37.1.7 PDFSetNote()	102
3.37.1.8 PDFSetRect()	103

3.37.1.9 PDFSetSelect()	103
3.37.1.10 PDFSetStamp()	103
3.37.1.11 PDFSetView()	104
3.38 com.radaee.annotui.UIAnnotMenu.IMemnuCallback Interface Reference	104
3.39 com.radaee.pdf.Ink Class Reference	104
3.39.1 Detailed Description	105
3.39.2 Constructor & Destructor Documentation	105
3.39.2.1 Ink()	105
3.39.3 Member Function Documentation	105
3.39.3.1 Destroy()	105
3.39.3.2 OnDown()	106
3.39.3.3 OnDraw()	106
3.39.3.4 OnMove()	106
3.39.3.5 OnUp()	106
3.40 com.radaee.view.ILayoutView.IVPage Interface Reference	108
3.40.1 Member Function Documentation	108
3.40.1.1 CreateInvertMatrix()	108
3.40.1.2 ToDIBX()	109
3.40.1.3 ToDIBY()	109
3.40.1.4 ToPDFX()	109
3.40.1.5 ToPDFY()	109
3.41 com.radaee.view.PDFLayout.LayoutListener Interface Reference	109
3.41.1 Detailed Description	110
3.41.2 Member Function Documentation	110
3.41.2.1 OnFound()	110
3.41.2.2 OnPageChanged()	110
3.41.2.3 OnPageDisplayed()	111
3.42 com.radaee.pdf.Matrix Class Reference	111
3.42.1 Detailed Description	112
3.42.2 Constructor & Destructor Documentation	112
3.42.2.1 Matrix() [1/2]	112
3.42.2.2 Matrix() [2/2]	113
3.42.3 Member Function Documentation	113
3.42.3.1 Destroy()	113
3.43 com.radaee.pdf.adv.Obj Class Reference	113
3.43.1 Detailed Description	114
3.43.2 Member Function Documentation	114
3.43.2.1 ArrayAppendItem()	114
3.43.2.2 ArrayClear()	115
3.43.2.3 ArrayGetItem()	115
3.43.2.4 ArrayGetItemCount()	115
3.43.2.5 ArrayInsertItem()	115
3.43.2.6 ArrayRemoveItem()	116

3.43.2.7 DictGetItem() [1/2]	116
3.43.2.8 DictGetItem() [2/2]	116
3.43.2.9 DictGetItemCount()	117
3.43.2.10 DictGetItemTag()	117
3.43.2.11 DictRemoveItem()	117
3.43.2.12 DictSetItem()	117
3.43.2.13 GetAsciiString()	118
3.43.2.14 GetBoolean()	118
3.43.2.15 GetHexString()	118
3.43.2.16 GetInt()	119
3.43.2.17 GetName()	119
3.43.2.18 GetReal()	119
3.43.2.19 GetReference()	119
3.43.2.20 GetTextString()	120
3.43.2.21 GetType()	120
3.43.2.22 SetArray()	120
3.43.2.23 SetAsciiString()	120
3.43.2.24 SetBoolean()	121
3.43.2.25 SetDict()	121
3.43.2.26 SetHexString()	121
3.43.2.27 SetInt()	121
3.43.2.28 SetName()	122
3.43.2.29 SetReal()	122
3.43.2.30 SetReference()	122
3.43.2.31 SetTextString()	123
3.44 com.radaee.util.RDFilesView.OnFilesListener Interface Reference	123
3.45 com.radaee.util.RDGridView.RDGridAdt.OnGridListener Interface Reference	123
3.46 com.radaee.util.RDRecentView.OnRecentListener Interface Reference	124
3.47 com.radaee.pdf.Document.Outline Class Reference	124
3.47.1 Member Function Documentation	124
3.47.1.1 AddChild()	124
3.47.1.2 AddNext()	125
3.47.1.3 GetChild()	125
3.47.1.4 GetDest()	126
3.47.1.5 GetFileLink()	126
3.47.1.6 GetNext()	126
3.47.1.7 GetTitle()	126
3.47.1.8 GetURI()	127
3.47.1.9 RemoveFromDoc()	127
3.47.1.10 SetTitle()	127
3.48 com.radaee.util.OutlineList.OutlineListAdt.outline_ui_item Class Reference	128
3.49 com.radaee.util.OutlineList Class Reference	128
3.50 com.radaee.pdf.Page Class Reference	129

3.50.1 Detailed Description	131
3.50.2 Member Function Documentation	131
3.50.2.1 AddAnnotAttachment()	131
3.50.2.2 AddAnnotBitmap()	132
3.50.2.3 AddAnnotEditbox() [1/2]	132
3.50.2.4 AddAnnotEditbox() [2/2]	133
3.50.2.5 AddAnnotEllipse() [1/2]	133
3.50.2.6 AddAnnotEllipse() [2/2]	135
3.50.2.7 AddAnnotGlyph()	135
3.50.2.8 AddAnnotGoto()	136
3.50.2.9 AddAnnotHWriting()	137
3.50.2.10 AddAnnotInk() [1/2]	137
3.50.2.11 AddAnnotInk() [2/2]	138
3.50.2.12 AddAnnotLine() [1/2]	138
3.50.2.13 AddAnnotLine() [2/2]	139
3.50.2.14 AddAnnotMarkup() [1/2]	140
3.50.2.15 AddAnnotMarkup() [2/2]	141
3.50.2.16 AddAnnotPolygon()	141
3.50.2.17 AddAnnotPolyline()	142
3.50.2.18 AddAnnotRect() [1/2]	143
3.50.2.19 AddAnnotRect() [2/2]	143
3.50.2.20 AddAnnotRichMedia()	144
3.50.2.21 AddAnnotStamp()	144
3.50.2.22 AddAnnotText()	145
3.50.2.23 AddAnnotURI()	146
3.50.2.24 AddContent()	146
3.50.2.25 AddResFont()	147
3.50.2.26 AddResForm()	147
3.50.2.27 AddResGState()	147
3.50.2.28 AddResImage()	148
3.50.2.29 Advance_GetRef()	148
3.50.2.30 Advance_Reload()	148
3.50.2.31 Close()	149
3.50.2.32 CopyAnnot()	149
3.50.2.33 FindOpen() [1/2]	149
3.50.2.34 FindOpen() [2/2]	150
3.50.2.35 FlatAnnots()	150
3.50.2.36 GetAnnot()	150
3.50.2.37 GetAnnotByName()	151
3.50.2.38 GetAnnotCount()	151
3.50.2.39 GetAnnotFromPoint()	151
3.50.2.40 GetCropBox()	152
3.50.2.41 GetMediaBox()	152

3.50.2.42	GetRotate()	152
3.50.2.43	ImportAnnot()	152
3.50.2.44	ObjsAlignWord()	153
3.50.2.45	ObjsGetCharCount()	153
3.50.2.46	ObjsGetCharFontName()	153
3.50.2.47	ObjsGetCharIndex()	154
3.50.2.48	ObjsGetCharRect()	154
3.50.2.49	ObjsGetString()	154
3.50.2.50	ObjsStart()	156
3.50.2.51	Reflow()	156
3.50.2.52	ReflowGetCharColor()	156
3.50.2.53	ReflowGetCharCount()	157
3.50.2.54	ReflowGetCharFont()	157
3.50.2.55	ReflowGetCharHeight()	158
3.50.2.56	ReflowGetCharRect()	158
3.50.2.57	ReflowGetCharUnicode()	158
3.50.2.58	ReflowGetCharWidth()	159
3.50.2.59	ReflowGetParaCount()	159
3.50.2.60	ReflowGetText()	159
3.50.2.61	ReflowStart()	160
3.50.2.62	ReflowToBmp()	160
3.50.2.63	Render()	161
3.50.2.64	Render_Normal()	161
3.50.2.65	RenderCancel()	161
3.50.2.66	RenderIsFinished()	162
3.50.2.67	RenderPrepare() [1/2]	162
3.50.2.68	RenderPrepare() [2/2]	162
3.50.2.69	RenderThumb()	162
3.50.2.70	RenderThumbToBuf()	163
3.50.2.71	RenderToBmp()	163
3.50.2.72	RenderToBuf()	164
3.50.2.73	Sign()	164
3.51	com.radaee.pdf.PageContent Class Reference	165
3.51.1	Member Function Documentation	166
3.51.1.1	ClipPath()	166
3.51.1.2	Create()	166
3.51.1.3	Destroy()	166
3.51.1.4	DrawForm()	166
3.51.1.5	DrawImage()	167
3.51.1.6	DrawText() [1/3]	167
3.51.1.7	DrawText() [2/3]	167
3.51.1.8	DrawText() [3/3]	168
3.51.1.9	FillPath()	168

3.51.1.10	GSRestore()	168
3.51.1.11	GSSave()	169
3.51.1.12	GSSet()	169
3.51.1.13	GSSetMatrix()	169
3.51.1.14	SetFillColor()	169
3.51.1.15	SetStrokeCap()	169
3.51.1.16	SetStrokeColor()	170
3.51.1.17	SetStrokeJoin()	170
3.51.1.18	SetStrokeMiter()	170
3.51.1.19	SetStrokeWidth()	171
3.51.1.20	StrokePath()	171
3.51.1.21	TextBegin()	171
3.51.1.22	TextEnd()	171
3.51.1.23	TextGetSize()	171
3.51.1.24	TextMove()	172
3.51.1.25	TextNextLine()	172
3.51.1.26	TextSetCharSpace()	172
3.51.1.27	TextSetFont()	173
3.51.1.28	TextSetHScale()	173
3.51.1.29	TextSetLeading()	173
3.51.1.30	TextSetRenderMode()	173
3.51.1.31	TextSetRise()	175
3.51.1.32	TextSetWordSpace()	175
3.52	com.radaee.view.PDFPageView.PageListener Interface Reference	175
3.53	com.radaee.pdf.Path Class Reference	176
3.53.1	Detailed Description	176
3.53.2	Member Function Documentation	177
3.53.2.1	ClosePath()	177
3.53.2.2	Destroy()	177
3.53.2.3	GetNode()	177
3.53.2.4	LineTo()	177
3.53.2.5	MoveTo()	178
3.54	com.radaee.util.RadaeePluginCallback.PDFActivityListener Interface Reference	178
3.54.1	Detailed Description	178
3.55	com.radaee.util.PDFAESStream Class Reference	178
3.55.1	Detailed Description	179
3.55.2	Member Function Documentation	179
3.55.2.1	close()	179
3.55.2.2	get_size()	179
3.55.2.3	ImportFromFile()	179
3.55.2.4	open()	180
3.55.2.5	read()	180
3.55.2.6	seek()	181

3.55.2.7 tell()	181
3.55.2.8 write()	181
3.55.2.9 writeable()	182
3.56 com.radaee.util.PDFAssetStream Class Reference	182
3.56.1 Detailed Description	182
3.56.2 Member Function Documentation	183
3.56.2.1 get_size()	183
3.56.2.2 read()	183
3.56.2.3 seek()	183
3.56.2.4 tell()	184
3.56.2.5 write()	184
3.56.2.6 writeable()	184
3.57 com.radaee.reader.PDFBotBar Class Reference	185
3.58 com.radaee.view.PDFViewDual.PDFCell Class Reference	185
3.59 com.radaee.util.RadaeePluginCallback.PDFControllerListener Interface Reference	185
3.59.1 Detailed Description	186
3.60 com.radaee.util.PDFFileStream Class Reference	186
3.60.1 Detailed Description	186
3.60.2 Member Function Documentation	186
3.60.2.1 get_size()	187
3.60.2.2 read()	187
3.60.2.3 seek()	187
3.60.2.4 tell()	188
3.60.2.5 write()	188
3.60.2.6 writeable()	188
3.61 com.radaee.pdf.Document.PDFFontDelegate Interface Reference	189
3.61.1 Member Function Documentation	189
3.61.1.1 GetExtFont()	189
3.62 com.radaee.reader.PDFGLLayoutView Class Reference	189
3.62.1 Member Function Documentation	190
3.62.1.1 BundleRestorePos()	191
3.62.1.2 BundleSavePos()	191
3.62.1.3 GetScreenX()	191
3.62.1.4 GetScreenY()	191
3.62.1.5 PDFCancelAnnot()	191
3.62.1.6 PDFCanSave()	191
3.62.1.7 PDFClose()	192
3.62.1.8 PDFEditAnnot()	192
3.62.1.9 PDFEndAnnot()	192
3.62.1.10 PDFFind()	192
3.62.1.11 PDFFindEnd()	192
3.62.1.12 PDFFindStart()	192
3.62.1.13 PDFGetDoc()	193

3.62.1.14 PDFGotoPage()	193
3.62.1.15 PDFPerformAnnot()	193
3.62.1.16 PDFRedo()	193
3.62.1.17 PDFRemoveAnnot()	193
3.62.1.18 PDFSave()	193
3.62.1.19 PDFScrolltoPage()	194
3.62.1.20 PDFSetAttachment()	194
3.62.1.21 PDFSetEditbox()	194
3.62.1.22 PDFSetEllipse()	194
3.62.1.23 PDFSetInk()	195
3.62.1.24 PDFSetLine()	195
3.62.1.25 PDFSetNote()	195
3.62.1.26 PDFSetPolygon()	196
3.62.1.27 PDFSetPolyline()	196
3.62.1.28 PDFSetRect()	196
3.62.1.29 PDFSetSelect()	196
3.62.1.30 PDFSetSelMarkup()	197
3.62.1.31 PDFSetStamp()	197
3.62.1.32 PDFSetView()	197
3.62.1.33 PDFUndo()	198
3.62.1.34 PDFUpdatePage()	198
3.63 com.radaee.reader.PDFGLViewAct Class Reference	198
3.63.1 Member Function Documentation	199
3.63.1.1 getFileState()	200
3.63.1.2 OnPDFAnnotTapped()	200
3.63.1.3 OnPDFBlankTapped()	200
3.63.1.4 OnPDFDoubleTapped()	200
3.63.1.5 OnPDFLongPressed()	201
3.63.1.6 OnPDFOpen3D()	201
3.63.1.7 OnPDFOpenAttachment()	201
3.63.1.8 OnPDFOpenJS()	201
3.63.1.9 OnPDFOpenMovie()	201
3.63.1.10 OnPDFOpenSound()	202
3.63.1.11 OnPDFOpenURI()	202
3.63.1.12 OnPDFPageChanged()	202
3.63.1.13 OnPDFPageDisplayed()	202
3.63.1.14 OnPDFPageModified()	203
3.63.1.15 OnPDFPageRendered()	203
3.63.1.16 OnPDFSearchFinished()	203
3.63.1.17 OnPDFSelectEnd()	203
3.63.1.18 OnPDFZoomEnd()	204
3.63.1.19 OnPDFZoomStart()	204
3.64 com.radaee.util.PDFGridItem Class Reference	204

3.65 com.radaee.util.PDFGridView Class Reference	205
3.66 com.radaee.util.PDFHttpStream Class Reference	206
3.66.1 Detailed Description	206
3.66.2 Member Function Documentation	206
3.66.2.1 close()	207
3.66.2.2 get_size()	207
3.66.2.3 open()	207
3.66.2.4 read()	207
3.66.2.5 seek()	208
3.66.2.6 tell()	208
3.66.2.7 write()	208
3.66.2.8 writeable()	209
3.67 com.radaee.pdf.Document.PDFJSDelegate Interface Reference	209
3.67.1 Member Function Documentation	209
3.67.1.1 OnAlert()	209
3.67.1.2 OnConsole()	210
3.67.1.3 OnDocClose()	210
3.67.1.4 OnTmpFile()	211
3.67.1.5 OnUncaughtException()	211
3.68 com.radaee.view.PDFLayout Class Reference	211
3.68.1 Member Function Documentation	213
3.68.1.1 vDraw()	213
3.68.1.2 vGetHeight()	214
3.68.1.3 vGetTheight()	214
3.68.1.4 vGetTWidth()	214
3.68.1.5 vGetWidth()	214
3.68.1.6 vOpen()	214
3.68.1.7 vRenderAsync()	214
3.68.1.8 vResize()	215
3.69 com.radaee.view.PDFLayoutDual Class Reference	215
3.69.1 Member Function Documentation	216
3.69.1.1 vClose()	216
3.69.1.2 vFling()	216
3.69.1.3 vGetPage()	216
3.69.1.4 vGotoPage()	217
3.69.1.5 vLayout()	217
3.69.1.6 vMoveEnd()	217
3.69.1.7 vOpen()	217
3.69.1.8 vScrolltoPage()	217
3.70 com.radaee.view.PDFLayoutHorz Class Reference	218
3.70.1 Member Function Documentation	218
3.70.1.1 vGetPage()	218
3.70.1.2 vLayout()	218

3.70.1.3 vOpen()	218
3.70.1.4 vResize()	219
3.71 com.radaee.view.ILayoutView.PDFLayoutListener Interface Reference	219
3.71.1 Member Function Documentation	220
3.71.1.1 OnPDFAnnotTapped()	220
3.71.1.2 OnPDFBlankTapped()	220
3.71.1.3 OnPDFPageChanged()	220
3.71.1.4 OnPDFPageDisplayed()	221
3.71.1.5 OnPDFPageModified()	221
3.71.1.6 OnPDFPageRendered()	221
3.71.1.7 OnPDFSearchFinished()	221
3.71.1.8 OnPDFSelectEnd()	222
3.71.1.9 OnPDFZoomEnd()	222
3.71.1.10 OnPDFZoomStart()	222
3.72 com.radaee.reader.PDFLayoutOPStack Class Reference	223
3.73 com.radaee.view.PDFLayoutVert Class Reference	223
3.73.1 Member Function Documentation	223
3.73.1.1 vGetPage()	223
3.73.1.2 vLayout()	224
3.74 com.radaee.reader.PDFLayoutView Class Reference	224
3.74.1 Member Function Documentation	226
3.74.1.1 BundleRestorePos()	226
3.74.1.2 BundleSavePos()	226
3.74.1.3 GetScreenX()	226
3.74.1.4 GetScreenY()	227
3.74.1.5 OnCacheRendered()	227
3.74.1.6 onDraw()	227
3.74.1.7 OnFound()	227
3.74.1.8 OnPageChanged()	228
3.74.1.9 OnPageDisplayed()	228
3.74.1.10 OnPageRendered()	228
3.74.1.11 OnTimer()	228
3.74.1.12 PDFCancelAnnot()	229
3.74.1.13 PDFCanSave()	229
3.74.1.14 PDFClose()	229
3.74.1.15 PDFEditAnnot()	229
3.74.1.16 PDFEndAnnot()	229
3.74.1.17 PDFFind()	229
3.74.1.18 PDFFindEnd()	230
3.74.1.19 PDFFindStart()	230
3.74.1.20 PDFGetDoc()	230
3.74.1.21 PDFGotoPage()	230
3.74.1.22 PDFPerformAnnot()	230

3.74.1.23 PDFRedo()	230
3.74.1.24 PDFRemoveAnnot()	231
3.74.1.25 PDFSave()	231
3.74.1.26 PDFScrollToPage()	231
3.74.1.27 PDFSetAttachment()	231
3.74.1.28 PDFSetEditbox()	231
3.74.1.29 PDFSetEllipse()	232
3.74.1.30 PDFSetInk()	232
3.74.1.31 PDFSetLine()	232
3.74.1.32 PDFSetNote()	233
3.74.1.33 PDFSetPolygon()	233
3.74.1.34 PDFSetPolyline()	233
3.74.1.35 PDFSetRect()	233
3.74.1.36 PDFSetSelect()	234
3.74.1.37 PDFSetSelMarkup()	234
3.74.1.38 PDFSetStamp()	234
3.74.1.39 PDFSetView()	235
3.74.1.40 PDFUndo()	235
3.74.1.41 PDFUpdatePage()	235
3.75 com.radaee.reader.PDFMainAct Class Reference	235
3.76 com.radaee.util.PDFMemStream Class Reference	236
3.76.1 Member Function Documentation	236
3.76.1.1 get_data()	237
3.76.1.2 get_size()	237
3.76.1.3 read()	237
3.76.1.4 seek()	237
3.76.1.5 tell()	238
3.76.1.6 write()	238
3.76.1.7 writeable()	238
3.77 com.radaee.reader.PDFMenu Class Reference	239
3.78 com.radaee.reader.PDFNavAct Class Reference	239
3.79 com.radaee.util.PDFPageGridView Class Reference	240
3.80 com.radaee.reader.PDFPagesAct Class Reference	240
3.81 com.radaee.view.PDFPageView Class Reference	241
3.81.1 Detailed Description	242
3.81.2 Member Function Documentation	242
3.81.2.1 vOpen()	242
3.82 com.radaee.view.PDFView.PDFPos Class Reference	242
3.83 com.radaee.util.RadaeePluginCallback.PDFReaderListener Interface Reference	243
3.83.1 Detailed Description	243
3.84 com.radaee.pdf.Document.PDFStream Interface Reference	243
3.84.1 Member Function Documentation	244
3.84.1.1 get_size()	244

3.84.1.2 read()	244
3.84.1.3 seek()	245
3.84.1.4 tell()	245
3.84.1.5 write()	245
3.84.1.6 writeable()	246
3.85 com.radaee.util.PDFThumbGrid Class Reference	246
3.85.1 Detailed Description	246
3.86 com.radaee.util.RadaeePluginCallback.PDFThumbListener Interface Reference	247
3.86.1 Detailed Description	247
3.87 com.radaee.view.PDFViewThumb.PDFThumbListener Interface Reference	247
3.88 com.radaee.util.PDFThumbView Class Reference	247
3.88.1 Member Function Documentation	248
3.88.1.1 OnPDFDoubleTapped()	248
3.88.1.2 OnPDFFound()	249
3.88.1.3 OnPDFInvalidate()	249
3.88.1.4 OnPDFLongPressed()	249
3.88.1.5 OnPDFPageChanged()	250
3.88.1.6 OnPDFPageDisplayed()	250
3.88.1.7 OnPDFPageRendered()	250
3.88.1.8 OnPDFSelectEnd()	251
3.88.1.9 OnPDFSelecting()	251
3.88.1.10 OnPDFShowPressed()	251
3.88.1.11 OnPDFSingleTapped()	251
3.88.1.12 OnPDFZoomEnd()	252
3.88.1.13 OnPDFZoomStart()	252
3.88.1.14 thumbGotoPage()	252
3.88.1.15 thumbUpdatePage()	252
3.89 com.radaee.reader.PDFTopBar Class Reference	253
3.90 com.radaee.view.PDFVCache Class Reference	253
3.91 com.radaee.view.PDFVFinder Class Reference	254
3.91.1 Detailed Description	254
3.92 com.radaee.view.PDFView Class Reference	254
3.92.1 Member Function Documentation	256
3.92.1.1 vCenterPage()	256
3.92.1.2 vGetLock()	257
3.92.1.3 vGetPage()	257
3.92.1.4 vGetPos()	257
3.92.1.5 vGetScale()	258
3.92.1.6 vLayout()	258
3.92.1.7 vRenderAsync()	258
3.92.1.8 vSetLock()	258
3.92.1.9 vSetPos()	259
3.92.1.10 vSetScale()	259

3.92.1.11 vSetSelMarkup()	260
3.93 com.radaee.reader.PDFViewAct Class Reference	260
3.93.1 Member Function Documentation	261
3.93.1.1 getCurrentPage()	261
3.93.1.2 getFileState()	261
3.93.1.3 OnPDFAnnotTapped()	261
3.93.1.4 OnPDFBlankTapped()	262
3.93.1.5 OnPDFDoubleTapped()	262
3.93.1.6 OnPDFLongPressed()	262
3.93.1.7 OnPDFOpen3D()	262
3.93.1.8 OnPDFOpenAttachment()	263
3.93.1.9 OnPDFOpenJS()	263
3.93.1.10 OnPDFOpenMovie()	263
3.93.1.11 OnPDFOpenSound()	263
3.93.1.12 OnPDFOpenURI()	263
3.93.1.13 OnPDFPageChanged()	263
3.93.1.14 OnPDFPageDisplayed()	264
3.93.1.15 OnPDFPageModified()	264
3.93.1.16 OnPDFPageRendered()	264
3.93.1.17 OnPDFSearchFinished()	265
3.93.1.18 OnPDFSelectEnd()	265
3.93.1.19 OnPDFZoomEnd()	265
3.93.1.20 OnPDFZoomStart()	266
3.94 com.radaee.reader.PDFViewController Class Reference	266
3.94.1 Member Function Documentation	267
3.94.1.1 setNavigationMode()	267
3.95 com.radaee.view.PDFViewCurl Class Reference	267
3.95.1 Member Function Documentation	268
3.95.1.1 motionNormal()	268
3.95.1.2 vClose()	268
3.95.1.3 vDraw()	268
3.95.1.4 vFindGoto()	269
3.95.1.5 vGetPage()	269
3.95.1.6 vGotoPage()	269
3.95.1.7 vLayout()	269
3.95.1.8 vOnTimer()	269
3.95.1.9 vOpen()	270
3.95.1.10 vSetPos()	270
3.96 com.radaee.view.PDFViewDual Class Reference	270
3.96.1 Member Function Documentation	271
3.96.1.1 vCenterPage()	271
3.96.1.2 vGetPage()	271
3.96.1.3 vGotoPage()	272

3.96.1.4 vLayout()	272
3.96.1.5 vOnFling()	272
3.96.1.6 vOnMoveEnd()	272
3.96.1.7 vOnZoomEnd()	272
3.96.1.8 vOpen()	273
3.96.1.9 vResize()	273
3.96.1.10 vSetLayoutPara()	273
3.97 com.radaee.view.PDFViewHorz Class Reference	274
3.97.1 Member Function Documentation	274
3.97.1.1 vGetPage()	274
3.97.1.2 vLayout()	274
3.97.1.3 vOpen()	275
3.97.1.4 vResize()	275
3.98 com.radaee.view.PDFView.PDFViewListener Interface Reference	275
3.98.1 Detailed Description	276
3.98.2 Member Function Documentation	276
3.98.2.1 OnPDFDoubleTapped()	276
3.98.2.2 OnPDFFound()	276
3.98.2.3 OnPDFInvalidate()	277
3.98.2.4 OnPDFLongPressed()	277
3.98.2.5 OnPDFPageChanged()	277
3.98.2.6 OnPDFPageDisplayed()	278
3.98.2.7 OnPDFSelectEnd()	278
3.98.2.8 OnPDFSelecting()	278
3.98.2.9 OnPDFShowPressed()	278
3.98.2.10 OnPDFSingleTapped()	280
3.99 com.radaee.view.PDFViewPager Class Reference	280
3.99.1 Detailed Description	281
3.99.2 Member Function Documentation	281
3.99.2.1 PDFOpen()	281
3.100 com.radaee.view.PDFViewReflow Class Reference	281
3.100.1 Member Function Documentation	282
3.100.1.1 vClose()	282
3.100.1.2 vDraw()	282
3.100.1.3 vFindGoto()	282
3.100.1.4 vGetPage()	282
3.100.1.5 vGetPos()	282
3.100.1.6 vGotoPage()	283
3.100.1.7 vLayout()	283
3.100.1.8 vOnFling()	283
3.100.1.9 vOpen()	283
3.100.1.10 vSetPos()	284
3.100.1.11 vSingleTap()	284

3.101 com.radaee.view.PDFViewThumb Class Reference	284
3.101.1 Member Function Documentation	285
3.101.1.1 vClose()	285
3.101.1.2 vDraw()	285
3.101.1.3 vFlushRange()	286
3.101.1.4 vGetOrientation()	286
3.101.1.5 vGetPage()	286
3.101.1.6 vLayout()	286
3.101.1.7 vOnFling()	286
3.101.1.8 vOnMoveEnd()	287
3.101.1.9 vOpen()	287
3.101.1.10 vResize()	287
3.101.1.11 vSetOrientation()	287
3.101.1.12 vSetSel()	288
3.101.1.13 vSingleTap()	288
3.102 com.radaee.view.PDFViewVert Class Reference	288
3.102.1 Member Function Documentation	289
3.102.1.1 vGetPage()	289
3.102.1.2 vLayout()	289
3.102.1.3 vSetPageAlign()	289
3.103 com.radaee.view.PDFVPage Class Reference	289
3.103.1 Member Function Documentation	291
3.103.1.1 CancelRender()	291
3.103.1.2 CreateInvertMatrix()	291
3.103.1.3 CreateMatrix()	291
3.103.1.4 Draw() [1/2]	292
3.103.1.5 Draw() [2/2]	292
3.103.1.6 GetHeight()	292
3.103.1.7 GetPage()	292
3.103.1.8 GetPageNo()	293
3.103.1.9 GetVX()	293
3.103.1.10 GetVY()	293
3.103.1.11 GetWidth()	294
3.103.1.12 GetX()	294
3.103.1.13 GetY()	294
3.103.1.14 ToDIBX()	294
3.103.1.15 ToDIBY()	295
3.103.1.16 ToPDFSize()	295
3.103.1.17 ToPDFX()	295
3.103.1.18 ToPDFY()	296
3.104 com.radaee.view.PDFVSEL Class Reference	296
3.105 com.radaee.view.PDFVThread Class Reference	297
3.105.1 Detailed Description	297

3.106 com.radaee.util.PopupEditAct Class Reference	298
3.107 com.radaee.util.RadaeePDFManager Class Reference	298
3.107.1 Detailed Description	300
3.107.2 Member Function Documentation	300
3.107.2.1 activateLicense()	300
3.107.2.2 addAnnotAttachment()	301
3.107.2.3 addToBookmarks()	301
3.107.2.4 didChangePage()	302
3.107.2.5 didCloseReader()	302
3.107.2.6 didSearchTerm()	302
3.107.2.7 didShowReader()	302
3.107.2.8 encryptDocAs()	302
3.107.2.9 extractTextFromPage()	303
3.107.2.10 getBookmarksAsJson()	303
3.107.2.11 getJsonFormFields()	304
3.107.2.12 getJsonFormFieldsAtPage()	304
3.107.2.13 getPageCount()	304
3.107.2.14 getPageNumber()	305
3.107.2.15 onAnnotTapped()	305
3.107.2.16 onBlankTapped()	305
3.107.2.17 onDoubleTapped()	305
3.107.2.18 onLongPressed()	305
3.107.2.19 openFromAssets() [1/2]	305
3.107.2.20 openFromAssets() [2/2]	306
3.107.2.21 openFromPath()	306
3.107.2.22 removeBookmark()	307
3.107.2.23 renderAnnotToFile()	307
3.107.2.24 setDebugMode()	307
3.107.2.25 setFirstPageCover()	308
3.107.2.26 setFormFieldsWithJSON()	308
3.107.2.27 setIconsBGColor()	308
3.107.2.28 setImmersive()	309
3.107.2.29 setLayoutType()	309
3.107.2.30 setReaderBGColor()	309
3.107.2.31 setReaderViewMode()	309
3.107.2.32 setThumbHeight()	310
3.107.2.33 setThumbnailBGColor()	310
3.107.2.34 setTitleBGColor()	310
3.107.2.35 show() [1/2]	311
3.107.2.36 show() [2/2]	311
3.107.2.37 willCloseReader()	312
3.107.2.38 willShowReader()	312
3.108 com.radaee.util.RadaeePluginCallback Class Reference	312

3.108.1 Detailed Description	313
3.109 com.radaee.util.RDBGView Class Reference	313
3.110 com.radaee.util.RDExpView Class Reference	314
3.111 com.radaee.util.RDFilesItem Class Reference	314
3.112 com.radaee.util.RDFilesView Class Reference	315
3.113 com.radaee.util.RDGridItem Class Reference	316
3.114 com.radaee.util.RDGridView Class Reference	317
3.115 com.radaee.util.RDImgView Class Reference	318
3.116 com.radaee.util.RDLinearLayout Class Reference	318
3.117 com.radaee.util.RDLockerSet Class Reference	318
3.118 com.radaee.util.RDRecent Class Reference	319
3.119 com.radaee.util.RDRecentItem Class Reference	319
3.120 com.radaee.util.RDRecentView Class Reference	320
3.121 com.radaee.util.RDRelativeLayout Class Reference	320
3.122 com.radaee.pdf.adv.Ref Class Reference	321
3.122.1 Detailed Description	321
3.123 com.radaee.pdf.ResFont Class Reference	321
3.123.1 Detailed Description	321
3.124 com.radaee.pdf.ResForm Class Reference	322
3.124.1 Detailed Description	322
3.125 com.radaee.pdf.ResGState Class Reference	322
3.125.1 Detailed Description	322
3.126 com.radaee.pdf.ResImage Class Reference	322
3.126.1 Detailed Description	322
3.127 com.radaee.pdf.Sign Class Reference	323
3.127.1 Detailed Description	323
3.127.2 Member Function Documentation	323
3.127.2.1 GetContact()	323
3.127.2.2 GetLocation()	323
3.127.2.3 GetModDateTime()	324
3.127.2.4 GetName()	324
3.127.2.5 GetReason()	324
3.128 com.radaee.pdf.SuperDoc Class Reference	324
3.128.1 Detailed Description	326
3.128.2 Constructor & Destructor Documentation	326
3.128.2.1 SuperDoc()	326
3.128.3 Member Function Documentation	326
3.128.3.1 CanSave()	326
3.128.3.2 ChangePageRect()	327
3.128.3.3 CheckSignByteRange()	327
3.128.3.4 Close()	328
3.128.3.5 Create()	328
3.128.3.6 CreateForStream()	329

3.128.3.7 CreateVNPage()	329
3.128.3.8 EncryptAs()	329
3.128.3.9 ExportForm()	330
3.128.3.10 finalize()	330
3.128.3.11 GetID()	330
3.128.3.12 GetMeta()	331
3.128.3.13 GetOutlines()	331
3.128.3.14 GetPage()	331
3.128.3.15 GetPage0()	332
3.128.3.16 GetPageCount()	332
3.128.3.17 GetPageHeight()	332
3.128.3.18 GetPagesMaxSize()	333
3.128.3.19 GetPageWidth()	333
3.128.3.20 GetPerm()	333
3.128.3.21 GetPermission()	334
3.128.3.22 GetSignByteRange()	334
3.128.3.23 GetSignContents()	335
3.128.3.24 GetSignFilter()	335
3.128.3.25 GetSignSubFilter()	335
3.128.3.26 ImportPage()	335
3.128.3.27 ImportStart()	336
3.128.3.28 IsEncrypted()	336
3.128.3.29 IsOpened()	337
3.128.3.30 MovePage()	337
3.128.3.31 NewFontCID()	337
3.128.3.32 NewGState()	338
3.128.3.33 NewImage()	338
3.128.3.34 NewImageJPEG()	338
3.128.3.35 NewImageJPX()	339
3.128.3.36 NewPage()	339
3.128.3.37 NewRootOutline()	340
3.128.3.38 Open()	340
3.128.3.39 OpenMem()	341
3.128.3.40 OpenStream()	341
3.128.3.41 RemovePage()	342
3.128.3.42 Save()	342
3.128.3.43 SaveAs()	343
3.128.3.44 SetCache()	343
3.128.3.45 SetFontDel()	343
3.128.3.46 SetMeta()	344
3.128.3.47 SetPageRotate()	344
3.129 com.radaee.pdf.SuperPage Class Reference	345
3.129.1 Member Function Documentation	345

3.129.1.1 Close()	345
3.130 com.radaee.annotui.UIAnnotDlg Class Reference	346
3.131 com.radaee.annotui.UIAnnotDlgComm Class Reference	346
3.132 com.radaee.annotui.UIAnnotDlgIcon Class Reference	347
3.133 com.radaee.annotui.UIAnnotDlgLine Class Reference	347
3.134 com.radaee.annotui.UIAnnotDlgMarkup Class Reference	348
3.135 com.radaee.annotui.UIAnnotDlgPopup Class Reference	348
3.136 com.radaee.annotui.UIAnnotDlgSign Class Reference	349
3.137 com.radaee.annotui.UIAnnotDlgSignProp Class Reference	349
3.138 com.radaee.annotui.UIAnnotMenu Class Reference	350
3.139 com.radaee.annotui.UIAnnotPop Class Reference	350
3.140 com.radaee.annotui.UIAnnotPopCombo Class Reference	351
3.141 com.radaee.annotui.UIAnnotPopEdit Class Reference	351
3.142 com.radaee.annotui.UIColorButton Class Reference	352
3.143 com.radaee.annotui.UILIconButton Class Reference	352
3.144 com.radaee.annotui.UILHeadButton Class Reference	353
3.145 com.radaee.annotui.UILHeaderView Class Reference	353
3.146 com.radaee.annotui.UILStyleButton Class Reference	354
3.147 com.radaee.annotui.UILStyleView Class Reference	354
3.148 com.radaee.annotui.UISignView Class Reference	355
3.149 com.radaee.view.VFinder Class Reference	355
3.149.1 Detailed Description	355
3.150 com.radaee.pdf.VNBlock Class Reference	356
3.150.1 Detailed Description	356
3.151 com.radaee.pdf.VNCache Class Reference	356
3.151.1 Detailed Description	356
3.152 com.radaee.pdf.VNPage Class Reference	356
3.153 com.radaee.pdf.VNPage.VNPageListener Interface Reference	358
3.154 com.radaee.view.VPage Class Reference	358
3.154.1 Member Function Documentation	359
3.154.1.1 CreateInvertMatrix()	359
3.154.1.2 GetPageNo()	360
3.154.1.3 GetVX()	360
3.154.1.4 GetVY()	360
3.154.1.5 ToDIBX()	360
3.154.1.6 ToDIBY()	361
3.154.1.7 ToPDFSize()	361
3.154.1.8 ToPDFX()	361
3.154.1.9 ToPDFY()	362
3.155 com.radaee.view.VSel Class Reference	362
3.156 com.radaee.view.VThread Class Reference	363
3.156.1 Member Function Documentation	363
3.156.1.1 BlkDealloc()	363

3.156.1.2 BlkRender()	363
3.156.1.3 Dealloc()	364
3.156.1.4 Draw()	364
3.156.1.5 Render()	364

Index	365
--------------	------------

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

com.radaee.util.PopupEditAct.ActRetListener	9
com.radaee.pdf.BMDatabase	9
com.radaee.pdf.BMP	13
com.radaee.util.BookmarkHandler	15
com.radaee.util.BookmarkHandler.BookmarkListener	16
com.radaee.util.BookmarkHandler.BookmarkStatus	16
AlertDialog.Builder	
com.radaee.annotui.UIAnnotDlg	346
com.radaee.annotui.UIAnnotDlgComm	346
com.radaee.annotui.UIAnnotDlgIcon	347
com.radaee.annotui.UIAnnotDlgLine	347
com.radaee.annotui.UIAnnotDlgMarkup	348
com.radaee.annotui.UIAnnotDlgPopup	348
com.radaee.annotui.UIAnnotDlgSign	349
com.radaee.annotui.UIAnnotDlgSignProp	349
com.radaee.reader.GLCanvas.CanvasListener	16
com.radaee.reader.GLView	94
com.radaee.util.CommonUtil	17
com.radaee.pdf.DIB	20
com.radaee.pdf.Document.DocFont	22
com.radaee.pdf.Document.DocForm	22
com.radaee.pdf.Document.DocGState	25
com.radaee.pdf.Document.DocImage	27
com.radaee.pdf.Document	27
com.radaee.pdf.SuperDoc	324
com.radaee.pdf.Page.Finder	57
com.radaee.view.GLBlock	58
com.radaee.view.GLLayout	59
com.radaee.view.GLLayoutCurl	62
com.radaee.view.GLLayoutDual	66
com.radaee.view.GLLayoutDual2	69
com.radaee.view.GLLayoutHorz	71
com.radaee.view.GLLayoutReflow	72
com.radaee.view.GLLayoutVert	76

com.radaee.view.GLLayout.GLListener	77
com.radaee.pdf.Global	77
com.radaee.view.GLReflowBlock	92
com.radaee.view.GLReflowCanvas	93
com.radaee.pdf.HWriting	97
com.radaee.view.ILayoutView	99
com.radaee.reader.PDFGLLayoutView	189
com.radaee.reader.PDFLayoutView	224
com.radaee.annotui.UIAnnotMenu.IMemnuCallback	104
com.radaee.pdf.Ink	104
com.radaee.view.ILayoutView.IVPage	108
com.radaee.view.GLPage	88
com.radaee.view.VPage	358
com.radaee.view.PDFLayout.LayoutListener	109
com.radaee.reader.PDFLayoutView	224
com.radaee.pdf.Matrix	111
com.radaee.pdf.adv.Obj	113
View.OnClickListener	
com.radaee.util.OutlineList.OutlineListAdt.outline_ui_item	128
PopupWindow.OnDismissListener	
com.radaee.reader.PDFMenu	239
com.radaee.util.RDFilesView.OnFilesListener	123
com.radaee.util.RDGridView.RDGridAdt.OnGridListener	123
com.radaee.util.RDRecentView.OnRecentListener	124
SeekBar.OnSeekBarChangeListener	
com.radaee.reader.PDFViewController	266
com.radaee.pdf.Document.Outline	124
com.radaee.pdf.Page	129
com.radaee.pdf.SuperPage	345
com.radaee.pdf.PageContent	165
com.radaee.view.PDFPageView.PageListener	175
com.radaee.pdf.Path	176
com.radaee.util.RadaeePluginCallback.PDFActivityListener	178
com.radaee.reader.PDFBotBar	185
com.radaee.view.PDFViewDual.PDFCell	185
com.radaee.util.RadaeePluginCallback.PDFControllerListener	185
com.radaee.pdf.Document.PDFFontDelegate	189
com.radaee.pdf.Document.PDFJSDelegate	209
com.radaee.view.PDFLayout	211
com.radaee.view.PDFLayoutDual	215
com.radaee.view.PDFLayoutHorz	218
com.radaee.view.PDFLayoutVert	223
com.radaee.view.ILayoutView.PDFLayoutListener	219
com.radaee.reader.PDFGLViewAct	198
com.radaee.reader.PDFViewAct	260
com.radaee.reader.PDFLayoutOPStack	223
com.radaee.view.PDFView.PDFPos	242
com.radaee.util.RadaeePluginCallback.PDFReaderListener	243
com.radaee.util.RadaeePDFManager	298
com.radaee.pdf.Document.PDFStream	243
com.radaee.util.PDFAESSStream	178
com.radaee.util.PDFAssetStream	182
com.radaee.util.PDFFileStream	186
com.radaee.util.PDFHttpStream	206
com.radaee.util.PDFMemStream	236
com.radaee.util.RadaeePluginCallback.PDFThumbListener	247

com.radaee.view.PDFViewThumb.PDFThumbListener	247
com.radaee.reader.PDFTopBar	253
com.radaee.view.PDFVCache	253
com.radaee.view.PDFVFinder	254
com.radaee.view.PDFView	254
com.radaee.view.PDFViewCurl	267
com.radaee.view.PDFViewDual	270
com.radaee.view.PDFViewHorz	274
com.radaee.view.PDFViewReflow	281
com.radaee.view.PDFViewThumb	284
com.radaee.view.PDFViewVert	288
com.radaee.view.PDFView.PDFViewListener	275
com.radaee.util.PDFThumbView	247
com.radaee.view.PDFVPage	289
com.radaee.view.PDFVSel	296
com.radaee.util.RadaeePluginCallback	312
com.radaee.util.RDFilesItem	314
com.radaee.util.RDLockerSet	318
com.radaee.util.RDRecent	319
com.radaee.util.RDRecentItem	319
com.radaee.pdf.adv.Ref	321
com.radaee.pdf.ResFont	321
com.radaee.pdf.ResForm	322
com.radaee.pdf.ResGState	322
com.radaee.pdf.ResImage	322
com.radaee.pdf.Sign	323
Thread	
com.radaee.util.PDFHttpStream.HttpDownloadThread	96
com.radaee.util.PDFHttpStream.HttpThread	96
com.radaee.view.GLThread	93
com.radaee.view.PDFVThread	297
com.radaee.annotui.UIAnnotMenu	350
com.radaee.view.VFinder	355
RecyclerView.ViewHolder	
com.radaee.util.RDGridItem	316
com.radaee.pdf.VNBlock	356
com.radaee.pdf.VNCache	356
com.radaee.pdf.VNPage	356
com.radaee.pdf.VNPage.VNPageListener	358
com.radaee.view.VThread	363
com.radaee.view.VSel	362
Activity	
com.radaee.reader.PDFGLViewAct	198
com.radaee.reader.PDFMainAct	235
com.radaee.reader.PDFNavAct	239
com.radaee.reader.PDFPagesAct	240
com.radaee.reader.PDFViewAct	260
com.radaee.util.PDFThumbGrid	246
com.radaee.util.PopupEditAct	298
Button	
com.radaee.annotui.UIColorButton	352
com.radaee.annotui.UILIconButton	352
com.radaee.annotui.UILHeadButton	353
com.radaee.annotui.UILStyleButton	354
GLSurfaceView	
com.radaee.reader.GLView	94
GridView	
com.radaee.util.FileBrowserView	56

com.radaee.util.PDFGridView	205
com.radaee.util.PDFPageGridView	240
HandlerThread	
com.radaee.view.VThread	363
ImageView	
com.radaee.util.RDImgView	318
LinearLayout	
com.radaee.util.PDFGridItem	204
com.radaee.util.RDLinearLayout	318
Listview	
com.radaee.util.ComboList	17
com.radaee.util.OutlineList	128
com.radaee.util.RDFilesView	315
com.radaee.util.RDRecentView	320
OnClickListener	
com.radaee.reader.PDFViewController	266
OnItemClickListener	
com.radaee.reader.PDFNavAct	239
PopupWindow	
com.radaee.annotui.UIAnnotPop	350
com.radaee.annotui.UIAnnotPopCombo	351
com.radaee.annotui.UIAnnotPopEdit	351
RecyclerView	
com.radaee.util.RDGridView	317
RelativeLayout	
com.radaee.reader.PDFGLLayoutView	189
com.radaee.util.RDRelativeLayout	320
View	
com.radaee.annotui.UILHeaderView	353
com.radaee.annotui.UILStyleView	354
com.radaee.annotui.UISignView	355
com.radaee.reader.GLCanvas	59
com.radaee.reader.PDFLayoutView	224
com.radaee.util.PDFThumbView	247
com.radaee.util.RDBGView	313
com.radaee.util.RDExpView	314
com.radaee.view.PDFPageView	241
ViewPager	
com.radaee.view.PDFViewPager	280

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

com.radaee.util.PopupEditAct.ActRetListener	9
com.radaee.pdf.BMDatabase	9
com.radaee.pdf.BMP	13
com.radaee.util.BookmarkHandler	15
com.radaee.util.BookmarkHandler.BookmarkListener	16
com.radaee.util.BookmarkHandler.BookmarkStatus	16
com.radaee.reader.GLCanvas.CanvasListener	16
com.radaee.util.ComboList	17
com.radaee.util.CommonUtil	17
com.radaee.pdf.DIB	20
com.radaee.pdf.Document.DocFont	22
com.radaee.pdf.Document.DocForm	22
com.radaee.pdf.Document.DocGState	25
com.radaee.pdf.Document.DocImage	27
com.radaee.pdf.Document	27
com.radaee.util.FileBrowserView	56
com.radaee.pdf.Page.Finder	57
com.radaee.view.GLBBlock	58
com.radaee.reader.GLCanvas	59
com.radaee.view.GLLayout	59
com.radaee.view.GLLayoutCurl	62
com.radaee.view.GLLayoutDual	66
com.radaee.view.GLLayoutDual2	69
com.radaee.view.GLLayoutHorz	71
com.radaee.view.GLLayoutReflow	72
com.radaee.view.GLLayoutVert	76
com.radaee.view.GLLayout.GLLListener	77
com.radaee.pdf.Global	77
com.radaee.view.GLPage	88
com.radaee.view.GLReflowBlock	92
com.radaee.view.GLReflowCanvas	93
com.radaee.view.GLThread	93
com.radaee.reader.GLView	94
com.radaee.util.PDFHttpStream.HttpDownloadThread	96
com.radaee.util.PDFHttpStream.HttpThread	96

com.radaee.pdf.HWriting	97
com.radaee.view.ILayoutView	99
com.radaee.annotui.UIAnnotMenu.IMemnuCallback	104
com.radaee.pdf.Ink	104
com.radaee.view.ILayoutView.IVPage	108
com.radaee.view.PDFLayout.LayoutListener	109
com.radaee.pdf.Matrix	111
com.radaee.pdf.adv.Obj	113
com.radaee.util.RDFilesView.OnFilesListener	123
com.radaee.util.RDGridView.RDGridAdt.OnGridListener	123
com.radaee.util.RDRecentView.OnRecentListener	124
com.radaee.pdf.Document.Outline	124
com.radaee.util.OutlineList.OutlineListAdt.outline_ui_item	128
com.radaee.util.OutlineList	128
com.radaee.pdf.Page	129
com.radaee.pdf.PageContent	165
com.radaee.view.PDFPageView.PageListener	175
com.radaee.pdf.Path	176
com.radaee.util.RadaeePluginCallback.PDFActivityListener	178
com.radaee.util.PDFAESStream	178
com.radaee.util.PDFAssetStream	182
com.radaee.reader.PDFBotBar	185
com.radaee.view.PDFViewDual.PDFCell	185
com.radaee.util.RadaeePluginCallback.PDFControllerListener	185
com.radaee.util.PDFFileStream	186
com.radaee.pdf.Document.PDFFontDelegate	189
com.radaee.reader.PDFGLLayoutView	189
com.radaee.reader.PDFGLViewAct	198
com.radaee.util.PDFGridItem	204
com.radaee.util.PDFGridView	205
com.radaee.util.PDFHttpStream	206
com.radaee.pdf.Document.PDFJSDelegate	209
com.radaee.view.PDFLayout	211
com.radaee.view.PDFLayoutDual	215
com.radaee.view.PDFLayoutHorz	218
com.radaee.view.ILayoutView.PDFLayoutListener	219
com.radaee.reader.PDFLayoutOPStack	223
com.radaee.view.PDFLayoutVert	223
com.radaee.reader.PDFLayoutView	224
com.radaee.reader.PDFMainAct	235
com.radaee.util.PDFMemStream	236
com.radaee.reader.PDFMenu	239
com.radaee.reader.PDFNavAct	239
com.radaee.util.PDFPageGridView	240
com.radaee.reader.PDFPagesAct	240
com.radaee.view.PDFPageView	241
com.radaee.view.PDFView.PDFPos	242
com.radaee.util.RadaeePluginCallback.PDFReaderListener	243
com.radaee.pdf.Document.PDFStream	243
com.radaee.util.PDFThumbGrid	246
com.radaee.util.RadaeePluginCallback.PDFThumbListener	247
com.radaee.view.PDFViewThumb.PDFThumbListener	247
com.radaee.util.PDFThumbView	247
com.radaee.reader.PDFTopBar	253
com.radaee.view.PDFVCache	253
com.radaee.view.PDFVFinder	254
com.radaee.view.PDFView	254
com.radaee.reader.PDFViewAct	260

com.radaee.reader.PDFViewController	266
com.radaee.view.PDFViewCurl	267
com.radaee.view.PDFViewDual	270
com.radaee.view.PDFViewHorz	274
com.radaee.view.PDFView.PDFViewListener	275
com.radaee.view.PDFViewPager	280
com.radaee.view.PDFViewReflow	281
com.radaee.view.PDFViewThumb	284
com.radaee.view.PDFViewVert	288
com.radaee.view.PDFVPage	289
com.radaee.view.PDFVSel	296
com.radaee.view.PDFVThread	297
com.radaee.util.PopupEditAct	298
com.radaee.util.RadaeePDFManager	298
com.radaee.util.RadaeePluginCallback	312
com.radaee.util.RDBGView	313
com.radaee.util.RDExpView	314
com.radaee.util.RDFilesItem	314
com.radaee.util.RDFilesView	315
com.radaee.util.RDGridItem	316
com.radaee.util.RDGridView	317
com.radaee.util.RDImgView	318
com.radaee.util.RDLinearLayout	318
com.radaee.util.RDLockerSet	318
com.radaee.util.RDRecent	319
com.radaee.util.RDRecentItem	319
com.radaee.util.RDRecentView	320
com.radaee.util.RDRelativeLayout	320
com.radaee.pdf.adv.Ref	321
com.radaee.pdf.ResFont	321
com.radaee.pdf.ResForm	322
com.radaee.pdf.ResGState	322
com.radaee.pdf.ResImage	322
com.radaee.pdf.Sign	323
com.radaee.pdf.SuperDoc	324
com.radaee.pdf.SuperPage	345
com.radaee.annotui.UIAnnotDlg	346
com.radaee.annotui.UIAnnotDlgComm	346
com.radaee.annotui.UIAnnotDlgIcon	347
com.radaee.annotui.UIAnnotDlgLine	347
com.radaee.annotui.UIAnnotDlgMarkup	348
com.radaee.annotui.UIAnnotDlgPopup	348
com.radaee.annotui.UIAnnotDlgSign	349
com.radaee.annotui.UIAnnotDlgSignProp	349
com.radaee.annotui.UIAnnotMenu	350
com.radaee.annotui.UIAnnotPop	350
com.radaee.annotui.UIAnnotPopCombo	351
com.radaee.annotui.UIAnnotPopEdit	351
com.radaee.annotui.UIColorButton	352
com.radaee.annotui.UIconButton	352
com.radaee.annotui.UILHeadButton	353
com.radaee.annotui.UILHeaderView	353
com.radaee.annotui.UILStyleButton	354
com.radaee.annotui.UILStyleView	354
com.radaee.annotui.UISignView	355
com.radaee.view.VFinder	355
com.radaee.pdf.VNBlock	356
com.radaee.pdf.VNCache	356

com.radaee.pdf.VNPage	356
com.radaee.pdf.VNPage.VNPageListener	358
com.radaee.view.VPage	358
com.radaee.view.VSel	362
com.radaee.view.VThread	363

Chapter 3

Class Documentation

3.1 com.radaee.util.PopupEditAct.ActRetListener Interface Reference

Public Member Functions

- void **OnEditValue** (String val)

The documentation for this interface was generated from the following file:

- PopupEditAct.java

3.2 com.radaee.pdf.BMDatabase Class Reference

Public Member Functions

- boolean [OpenOrCreate](#) (String db_path)
- void [Close](#) ()
- long [RecOpen](#) (String look_path)
- void [RecClose](#) (long rec)
- int [RecGetCount](#) (long rec)
- String [RecItemGetName](#) (long rec, int index)
- int [RecItemGetPage](#) (long rec, int index)
- boolean [RecItemRemove](#) (long rec, int index)
- boolean [RecItemInsert](#) (long rec, String name, int pageno)

Protected Member Functions

- void **finalize** () throws Throwable

3.2.1 Detailed Description

class for PDF Book-mark database.

Author

Radaee

Version

1.1

3.2.2 Member Function Documentation

3.2.2.1 Close()

```
void com.radaee.pdf.BMDatabase.Close ( )
```

close database

3.2.2.2 OpenOrCreate()

```
boolean com.radaee.pdf.BMDatabase.OpenOrCreate (
    String db_path )
```

open exist database file or create it if not exist. (Database for BookMark)

Parameters

<i>db_path</i>	DB path
----------------	---------

Returns

true or false

3.2.2.3 RecClose()

```
void com.radaee.pdf.BMDatabase.RecClose (
    long rec )
```

Close a RecordSet handle

Parameters

<i>rec</i>	handle value of RecordSet. obtained by RecOpen
------------	--

3.2.2.4 RecGetCount()

```
int com.radaee.pdf.BMDatabase.RecGetCount (
    long rec )
```

Get items count of RecordSet.

Parameters

<i>rec</i>	RecordSet Handle, obtained by RecOpen
------------	---------------------------------------

Returns

records count

3.2.2.5 RecItemGetName()

```
String com.radaee.pdf.BMDatabase.RecItemGetName (
    long rec,
    int index )
```

Get item name by index.

Parameters

<i>rec</i>	RecordSet Handle that returned by RecOpen
<i>index</i>	0 based index value, range:[0, RecGetCount() -1]

Returns

name of item.

3.2.2.6 RecItemGetPage()

```
int com.radaee.pdf.BMDatabase.RecItemGetPage (
    long rec,
    int index )
```

Get page no by index.

Parameters

<i>rec</i>	RecordSet Handle that returned by RecOpen
<i>index</i>	0 based index value, range:[0, RecGetCount() -1]

Returns

0 based page NO.

3.2.2.7 RecItemInsert()

```
boolean com.radaee.pdf.BMDatabase.RecItemInsert (
    long rec,
    String name,
    int pageno )
```

insert item.

Parameters

<i>rec</i>	RecordSet Handle that returned by RecOpen
<i>name</i>	label of BookMark.
<i>pageno</i>	0 based page no recorded.

Returns

true or false

3.2.2.8 RecItemRemove()

```
boolean com.radaee.pdf.BMDatabase.RecItemRemove (
    long rec,
    int index )
```

remove item by index.

Parameters

<i>rec</i>	RecordSet Handle that returned by RecOpen
<i>index</i>	0 based index value, range:[0, RecGetCount() -1]

Returns

true or false.

3.2.2.9 RecOpen()

```
long com.radaee.pdf.BMDatabase.RecOpen (
    String look_path )
```

Get a RecordSet handle, by input PDF file path

Parameters

<i>look_path</i>	PDF path to lookup.
------------------	---------------------

Returns

handle value of RecordSet.

The documentation for this class was generated from the following file:

- BMDatabase.java

3.3 com.radaee.pdf.BMP Class Reference

Public Member Functions

- final void [Create](#) (Bitmap bmp)
- final void [DrawToDIB](#) ([DIB](#) dib, int x, int y)
- final void [DrawRect](#) (int color, int x, int y, int width, int height, int mode)
- final void [MulAlpha](#) ()
- final void [Invert](#) ()
- final void [Free](#) (Bitmap bmp)
- final int [GetWidth](#) ()
- final int [GetHeight](#) ()
- final boolean [SavePixs](#) (String path)
- final boolean [RestorePixs](#) (String path)

Protected Attributes

- long [hand](#) = 0

3.3.1 Member Function Documentation

3.3.1.1 Create()

```
final void com.radaee.pdf.BMP.Create (
    Bitmap bmp )
```

create [BMP](#) object for native using.

Parameters

<i>bmp</i>	format can be ARGB_8888/ARGB_4444/RGB_565
------------	---

3.3.1.2 DrawRect()

```
final void com.radaee.pdf.BMP.DrawRect (
    int color,
    int x,
    int y,
    int width,
    int height,
    int mode )
```

fill solid rectangle to bmp.

Parameters

<i>color</i>	the color to fill, formatted: 0xAARRGGBB, AA: alpha value.
<i>x</i>	
<i>y</i>	
<i>width</i>	
<i>height</i>	
<i>mode</i>	0: mix color by source pixels with alpha channel. 1: replace pixels.

3.3.1.3 MulAlpha()

```
final void com.radaee.pdf.BMP.MulAlpha ( )
```

when display Bitmap object, adjust color value as: $R = R * \alpha / 255$; $G = G * \alpha / 255$; $B = B * \alpha / 255$; for Bitmap all alpha is 0 or all alpha is 255, this method can be ignored to invoke. Deprecated since 3.12beta2, after the enhancements in the color blending & transparency composing, no need to use MulAlpha

3.3.1.4 RestorePixs()

```
final boolean com.radaee.pdf.BMP.RestorePixs (
    String path )
```

restore pixels data from file

Parameters

<i>path</i>	path-name to the file
-------------	-----------------------

Returns

true or false. width, height, and pixels format of bitmap must match to Bitmap object, otherwise return false.

3.3.1.5 SavePixs()

```
final boolean com.radaee.pdf.BMP.SavePixs (  
    String path )
```

save pixels data to file.

Parameters

<i>path</i>	path-name to the file.
-------------	------------------------

Returns

true or false

The documentation for this class was generated from the following file:

- BMP.java

3.4 com.radaee.util.BookmarkHandler Class Reference

Classes

- class **Bookmark**
- class **BookmarkAdapter**
- interface [BookmarkListener](#)
- enum [BookmarkStatus](#)

Static Public Member Functions

- static String **getDbPath** ()
- static void **setDbPath** (String path)
- static [BookmarkStatus](#) **addToBookmarks** (String pdfPath, int page, String label)
- static [BookmarkStatus](#) **addToBookmarks** (String pdfPath, Bookmark bookmark)
- static boolean **removeBookmark** (int page, String pdfPath)
- static boolean **removeBookmark** (Bookmark bookmark, String pdfPath)

- static void **showBookmarks** (final Context mContext, final String pdfPath, final [BookmarkListener](#) bookmarkListener)
- static List< Bookmark > **getBookmarks** (String pdfPath)
- static String **getBookmarksAsJson** (String pdfPath)

The documentation for this class was generated from the following file:

- BookmarkHandler.java

3.5 com.radaee.util.BookmarkHandler.BookmarkListener Interface Reference

Public Member Functions

- void **onBookmarkClickedListener** (int pageno)

The documentation for this interface was generated from the following file:

- BookmarkHandler.java

3.6 com.radaee.util.BookmarkHandler.BookmarkStatus Enum Reference

Public Attributes

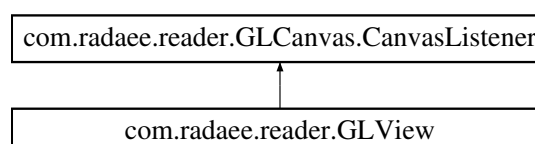
- **SUCCESS**
- **ALREADY_ADDED**
- **ERROR_UNKNOWN**

The documentation for this enum was generated from the following file:

- BookmarkHandler.java

3.7 com.radaee.reader.GLCanvas.CanvasListener Interface Reference

Inheritance diagram for com.radaee.reader.GLCanvas.CanvasListener:



Public Member Functions

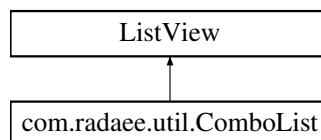
- void **drawLayer** (Canvas canvas)

The documentation for this interface was generated from the following file:

- GLCanvas.java

3.8 com.radaee.util.ComboList Class Reference

Inheritance diagram for com.radaee.util.ComboList:



Classes

- class **ComboListAdt**

Public Member Functions

- **ComboList** (Context context, AttributeSet attrs)
- void **set_opts** (String[] opts)

The documentation for this class was generated from the following file:

- ComboList.java

3.9 com.radaee.util.CommonUtil Class Reference

Static Public Member Functions

- static boolean **nigthMode** (Context context)
- static void **copyFiletoExternalStorage** (int resourceId, String resourceName, Context context)
- static String **getThumbName** (String path)
- static Bitmap **loadThumb** (File pictureFile)
- static void **saveThumb** (Bitmap image, File pictureFile)
- static String **md5** (byte[] input)
- static JSONObject **constructPageJsonFormFields** (Page mPage, int index)
- static void **parsePageJsonFormFields** (JSONObject pageJson, Document document)
- static void **showPDFOutlines** (final ILayoutView mPdfLayoutView, Context mContext)
- static void **checkAnnotAdvancedProp** (Document mDocument, Page.Annotation annot)
- static String **getPageText** (Document mDocument, int pageIndex)
- static String **getCurrentDate** ()
- static boolean **signField** (Document document, String field_name, Bitmap image)
- static boolean **signField** (Document document, Page.Annotation annot, Bitmap image)
- static Document.DocForm **createImageForm** (Document document, Bitmap image, float width, float height)
- static boolean **isFieldGraphicallySigned** (Page.Annotation signAnnot)
- static String **renderAnnotToFile** (Document document, int pageno, int annotIndex, String renderPath, int bitmapWidth, int bitmapHeight)

3.9.1 Detailed Description

Author

Davide created on 15/01/2016.

modified on 23/11/2016
Adding new utils methods.

3.9.2 Member Function Documentation

3.9.2.1 createImageForm()

```
static Document.DocForm com.radaee.util.CommonUtil.createImageForm (  
    Document document,  
    Bitmap image,  
    float width,  
    float height ) [static]
```

create DocForm object from image, and scale image to (width, height)

Parameters

<i>document</i>	Document object
<i>image</i>	bitmap object.
<i>width</i>	form width
<i>height</i>	form height

Returns

DocForm object.

3.9.2.2 getCurrentDate()

```
static String com.radaee.util.CommonUtil.getCurrentDate ( ) [static]
```

Returns

DateTime String object

format as (D:YYYYMMDDHHmmSSOHH'mm') where:

YYYY is the year

MM is the month

DD is the day (01–31)

HH is the hour (00–23)

mm is the minute (00–59)

SS is the second (00–59)

O is the relationship of local time to Universal Time (UT), denoted by one of the characters +, −, or Z

(see below)

HH followed by ' is the absolute value of the offset from UT in hours (00–23)

mm followed by ' is the absolute value of the offset from UT in minutes (00–59)

more details see PDF-Reference-1.7 section 3.8.3

3.9.2.3 signField() [1/2]

```
static boolean com.radaee.util.CommonUtil.signField (  
    Document document,  
    Page.Annotation annot,  
    Bitmap image ) [static]
```

it is fake sign method(graphic sign only), if you want a real sign feature, please using Annotation.SignField()

Parameters

<i>document</i>	document object
<i>annot</i>	annotation object of unsigned signature field.
<i>image</i>	Bitmap object.

Returns

true or false.

3.9.2.4 signField() [2/2]

```
static boolean com.radaee.util.CommonUtil.signField (  
    Document document,  
    String field_name,  
    Bitmap image ) [static]
```

it is fake sign method(graphic sign only), if you want a real sign feature, please using Annotation.SignField()

Parameters

<i>document</i>	document object
<i>field_name</i>	field name of unsigned signature field.
<i>image</i>	Bitmap object.

Returns

true or false.

The documentation for this class was generated from the following file:

- CommonUtil.java

3.10 com.radaee.pdf.DIB Class Reference

Public Member Functions

- final boolean **IsEmpty** ()
- final void **CreateOrResize** (int w, int h)
- final void **DrawToDIB** ([DIB](#) dst, int x, int y)
- final void **DrawToBmp** ([BMP](#) bmp, int x, int y)
- final void [MakeGray](#) ()
- final void **DrawToBmp2** ([BMP](#) bmp, int x, int y, int w, int h)
- final void **DrawRect** (int color, int x, int y, int width, int height, int mode)
- int **GLGenTexture** ()
- int **GetWidth** ()
- int **GetHeight** ()
- final void **Free** ()
- final boolean [SavePixs](#) (String path)
- final boolean [RestorePixs](#) (String path)

Protected Member Functions

- void **finalize** () throws Throwable

Protected Attributes

- long **hand** = 0

3.10.1 Member Function Documentation

3.10.1.1 DrawToBmp2()

```
final void com.radaee.pdf.DIB.DrawToBmp2 (
    BMP bmp,
    int x,
    int y,
    int w,
    int h )
```

draw dib to bmp, with scale

Parameters

<i>bmp</i>	
<i>x</i>	
<i>y</i>	
<i>w</i>	
<i>h</i>	

3.10.1.2 MakeGray()

```
final void com.radaee.pdf.DIB.MakeGray ( )
```

make [DIB](#) to gray.

it not change pixel format, after this call invoked, pixels still are 32 bits.
but pixels value changed to gray.

3.10.1.3 RestorePixs()

```
final boolean com.radaee.pdf.DIB.RestorePixs (
    String path )
```

restore pixels data from file. must be RGBA_8888 format.

Parameters

<i>path</i>	path-name to the file
-------------	-----------------------

Returns

true or false. pixels format of pixels must match to [DIB](#) object, otherwise return false.

3.10.1.4 SavePixs()

```
final boolean com.radaee.pdf.DIB.SavePixs (
    String path )
```

save pixels data to file. saved as RGBA_8888 format.

Parameters

<i>path</i>	path-name to the file.
-------------	------------------------

Returns

true or false

The documentation for this class was generated from the following file:

- DIB.java

3.11 com.radaee.pdf.Document.DocFont Class Reference

Public Member Functions

- float [GetAscent](#) ()
- float [GetDescent](#) ()

Protected Attributes

- long **hand**

3.11.1 Member Function Documentation

3.11.1.1 GetAscent()

```
float com.radaee.pdf.Document.DocFont.GetAscent ( )
```

get ascent

Returns

ascent based in 1, for example: 0.88f

3.11.1.2 GetDescent()

```
float com.radaee.pdf.Document.DocFont.GetDescent ( )
```

get descent

Returns

ascent based in 1, for example: -0.12f

The documentation for this class was generated from the following file:

- Document.java

3.12 com.radaee.pdf.Document.DocForm Class Reference

Public Member Functions

- [ResFont AddResFont](#) (Document.DocFont dfont)
- [ResImage AddResImage](#) (Document.DocImage dimg)
- [ResGState AddResGState](#) (Document.DocGState dgs)
- [ResForm AddResForm](#) (DocForm dform)
- void [SetContent](#) ([PageContent](#) content, float x, float y, float w, float h)
- void [SetTransparency](#) (boolean isolate, boolean knockout)

Protected Member Functions

- void **finalize** () throws Throwable

Protected Attributes

- [Document](#) **m_doc**
- long **hand**

3.12.1 Member Function Documentation

3.12.1.1 AddResFont()

[ResFont](#) com.radaee.pdf.Document.DocForm.AddResFont (
Document.DocFont *dfont*)

add font as resource of form.

Parameters

<i>dfont</i>	returned by Document.NewFontCID()
--------------	---

Returns

resource handle

3.12.1.2 AddResForm()

[ResForm](#) com.radaee.pdf.Document.DocForm.AddResForm (
[DocForm](#) *dform*)

add sub-form as resource of form.

Parameters

<i>dform</i>	returned by Document.NewForm()
--------------	--

Returns

resource handle

3.12.1.3 AddResGState()

```
ResGState com.radaee.pdf.Document.DocForm.AddResGState (
    Document.DocGState dgs )
```

add Graphic State as resource of form.

Parameters

<i>dgs</i>	returned by Document.NewGState()
------------	--

Returns

resource handle

3.12.1.4 AddResImage()

```
ResImage com.radaee.pdf.Document.DocForm.AddResImage (
    Document.DocImage dimg )
```

add image as resource of form.

Parameters

<i>dimg</i>	returned by Document.NewImageXXX()
-------------	--

Returns

resource handle

3.12.1.5 SetContent()

```
void com.radaee.pdf.Document.DocForm.SetContent (
    PageContent content,
    float x,
    float y,
    float w,
    float h )
```

set content of form, need a box defined in form.
the box define edge of form area, which [PageContent](#) object includes.

Parameters

<i>content</i>	PageContent object.
<i>x</i>	x of form's box
<i>y</i>	y of form's box
<i>w</i>	width of form's box
<i>h</i>	height of form's box

3.12.1.6 SetTransparency()

```
void com.radaee.pdf.Document.DocForm.SetTransparency (
    boolean isolate,
    boolean knockout )
```

set this form as transparency.

Parameters

<i>isolate</i>	set to isolate, mostly are false.
<i>knockout</i>	set to knockout, mostly are false.

The documentation for this class was generated from the following file:

- Document.java

3.13 com.radaee.pdf.Document.DocGState Class Reference

Public Member Functions

- boolean [SetFillAlpha](#) (int alpha)
- boolean [SetStrokeAlpha](#) (int alpha)
- boolean [SetStrokeDash](#) (float[] dash, float phase)
- boolean [SetBlendMode](#) (int bmode)

Protected Attributes

- long **hand**

3.13.1 Member Function Documentation

3.13.1.1 SetBlendMode()

```
boolean com.radaee.pdf.Document.DocGState.SetBlendMode (
    int bmode )
```

set blend mode to graphic state.

Parameters

<i>bmode</i>	2: Multiply 3: Screen 4: Overlay 5: Darken 6: Lighten 7: ColorDodge 8: ColorBurn 9: Difference 10: Exclusion 11: Hue 12: Saturation 13: Color 14: Luminosity others: Normal
--------------	--

Returns

true or false.

3.13.1.2 SetFillAlpha()

```
boolean com.radaee.pdf.Document.DocGState.SetFillAlpha (
    int alpha )
```

set alpha value for fill and other non-stroke operation

Parameters

<i>alpha</i>	range: [0, 255]
--------------	-----------------

Returns

true or false

3.13.1.3 SetStrokeAlpha()

```
boolean com.radaee.pdf.Document.DocGState.SetStrokeAlpha (
    int alpha )
```

set alpha value for stroke operation

Parameters

<i>alpha</i>	range: [0, 255]
--------------	-----------------

Returns

true or false

3.13.1.4 SetStrokeDash()

```
boolean com.radaee.pdf.Document.DocGState.SetStrokeDash (
    float[] dash,
    float phase )
```

set dash for stroke operation.

Parameters

<i>dash</i>	dash arra, if null, means set to solid.
<i>phase</i>	phase value, mostly, it is 0.

Returns

true or false. eaxmple:

[2, 1], 0 means 2 on, 1 off, 2 on, 1 off, ...

[2, 1], 0.5 means 1.5 on, 1 off, 2 on 1 off, ...

for more details, plz see PDF-Reference 1.7 (4.3.2) Line Dash Pattern.

The documentation for this class was generated from the following file:

- Document.java

3.14 com.radaee.pdf.Document.DocImage Class Reference

Protected Attributes

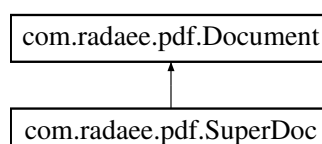
- long **hand**

The documentation for this class was generated from the following file:

- Document.java

3.15 com.radaee.pdf.Document Class Reference

Inheritance diagram for com.radaee.pdf.Document:



Classes

- class [DocFont](#)
- class [DocForm](#)
- class [DocGState](#)
- class [DocImage](#)
- class [ImportContext](#)
- class [Outline](#)
- interface [PDFFontDelegate](#)
- interface [PDFJSDelegate](#)
- interface [PDFStream](#)

Public Member Functions

- [Obj Advance_GetObj](#) ([Ref](#) ref)
- [Ref Advance_NewIndirectObj](#) ()
- [Ref Advance_NewIndirectAndCopyObj](#) ([Obj](#) obj)
- [Ref Advance_NewFlateStream](#) (byte[] source)
- [Ref Advance_NewRawStream](#) (byte[] source)
- [Ref Advance_GetRef](#) ()
- void [Advance_Reload](#) ()
- [Document](#) (long hand)
- boolean [IsOpened](#) ()
- int [Create](#) (String path)
- int [CreateForStream](#) ([PDFStream](#) stream) throws Exception
- boolean [SetCache](#) (String path)
- void [SetFontDel](#) ([PDFFontDelegate](#) del)
- int [Open](#) (String path, String password)
- int [Open](#) (String path, String cert_file, String password)
- int [OpenMem](#) (byte[] data, String password)
- int [OpenMem](#) (byte[] data, String cert_file, String password)
- int [OpenStream](#) ([PDFStream](#) stream, String password)
- int [OpenStream](#) ([PDFStream](#) stream, String cert_file, String password)
- boolean [RunJS](#) (String js, [PDFJSDelegate](#) del) throws Exception
- int [GetEmbedFilesCount](#) ()
- String [GetEmbedFileName](#) (int index)
- String [GetEmbedFileDesc](#) (int index)
- boolean [GetEmbedFileData](#) (int index, String save_path)
- int [GetJSCount](#) ()
- String [GetJSName](#) (int index)
- String [GetJS](#) (int index)
- int [GetPermission](#) ()
- int [GetPerm](#) ()
- String [ExportForm](#) ()
- void [Close](#) ()
- int [GetLinearizedStatus](#) ()
- [Page](#) [GetPage0](#) ()
- [Page](#) [GetPage](#) (int pageno)
- int [GetPageCount](#) ()
- float [GetPageWidth](#) (int pageno)
- float [GetPageHeight](#) (int pageno)
- String [GetPageLabel](#) (int pageno)
- float[] [GetPagesMaxSize](#) ()
- String [GetMeta](#) (String tag)

- String [GetXMP](#) ()
- boolean [SetXMP](#) (String xmp)
- byte[] [GetID](#) (int index)
- boolean [SetMeta](#) (String tag, String val)
- [Outline](#) [GetOutlines](#) ()
- boolean [CanSave](#) ()
- boolean [Save](#) ()
- boolean [SaveAs](#) (String path, boolean rem_sec)
- boolean [EncryptAs](#) (String dst, String upswd, String opswd, int perm, int method, byte[] id)
- boolean [IsEncrypted](#) ()
- boolean [NewRootOutline](#) (String label, int pageno, float top)
- ImportContext [ImportStart](#) ([Document](#) src)
- [Page](#) [NewPage](#) (int pageno, float w, float h)
- boolean [RemovePage](#) (int pageno)
- boolean [MovePage](#) (int pageno1, int pageno2)
- [DocFont](#) [NewFontCID](#) (String font_name, int style)
- [DocGState](#) [NewGState](#) ()
- [DocImage](#) [NewImage](#) (Bitmap bmp, boolean has_alpha)
- [DocImage](#) [NewImage](#) (Bitmap bmp, int matte)
- [DocImage](#) [NewImageJPEG](#) (String path)
- [DocImage](#) [NewImageByMem](#) (byte[] data, int len)
- [DocImage](#) [NewImageJPX](#) (String path)
- [DocForm](#) [NewForm](#) ()
- boolean [ChangePageRect](#) (int pageno, float dl, float dt, float dr, float db)
- boolean [SetPageRotate](#) (int pageno, int degree)
- int [VerifySign](#) ([Sign](#) sign)
- long [CreateVNPage](#) (int pageno, int cw, int ch, [Bitmap.Config](#) format)

Static Public Member Functions

- static void [SetOpenFlag](#) (int flag)
- static void [BundleSave](#) ([Bundle](#) bundle, [Document](#) doc)
- static [Document](#) [BundleRestore](#) ([Bundle](#) bundle)

Protected Member Functions

- void [finalize](#) () throws [Throwable](#)

Protected Attributes

- long [hand_val](#) = 0

3.15.1 Detailed Description

class for PDF [Document](#).

Author

Radaee

Version

1.1

3.15.2 Constructor & Destructor Documentation

3.15.2.1 Document()

```
com.radaee.pdf.Document.Document (
    long hand )
```

inner function.

Parameters

<i>hand</i>	
-------------	--

3.15.3 Member Function Documentation

3.15.3.1 Advance_GetObj()

```
Obj com.radaee.pdf.Document.Advance_GetObj (
    Ref ref )
```

advanced function to get object from [Document](#) to edit.
this method require premium license.

Parameters

<i>ref</i>	PDF cross reference ID, which got from: Advance_NewIndirectObj() Advance_GetCatalog() Advance_GetPage() Advance_NewFlateStream() Advance_NewRawStream()
------------	--

Returns

PDF Object or null.

3.15.3.2 Advance_GetRef()

```
Ref com.radaee.pdf.Document.Advance_GetRef ( )
```

advanced function to get reference of catalog object(root object of PDF).
this method require premium license.

Returns

PDF cross reference to new object, using `Advance_GetObj` to get Object data.

3.15.3.3 `Advance_NewFlateStream()`

[Ref](#) `com.radaee.pdf.Document.Advance_NewFlateStream (`
`byte[] source )`

advanced function to create a stream using zlib compression(zlib).
stream byte contents can't modified, once created.
the byte contents shall auto compress and encrypt by native library.
this method require premium license, and need [Document.SetCache\(\)](#) invoked.

Parameters

<i>source</i>	
---------------	--

Returns

PDF cross reference to new object, using `Advance_GetObj` to get Object data.

3.15.3.4 `Advance_NewIndirectAndCopyObj()`

[Ref](#) `com.radaee.pdf.Document.Advance_NewIndirectAndCopyObj (`
`Obj obj )`

advanced function to create an indirect object, and then copy source object to this indirect object.
this method require premium license.

Parameters

<i>obj</i>	source object to be copied.
------------	-----------------------------

Returns

PDF cross reference to new object, using `Advance_GetObj` to get Object data.

3.15.3.5 `Advance_NewIndirectObj()`

[Ref](#) `com.radaee.pdf.Document.Advance_NewIndirectObj ( )`

advanced function to create an empty indirect object to edit.
this method require premium license.

Returns

PDF cross reference to new object, using `Advance_GetObj` to get Object data.

3.15.3.6 `Advance_NewRawStream()`

[Ref](#) `com.radaee.pdf.Document.Advance_NewRawStream (`
`byte[] source )`

advanced function to create a stream using raw data.

if u pass compressed data to this method, u shall modify dictionary of this stream.

like "Filter" and other item from dictionary.

the byte contents shall auto encrypt by native library, if document is encrypted.

this method requires premium license, and needs `Document.SetCache()` invoked.

Parameters

<code>source</code>	
---------------------	--

Returns

PDF cross reference to new object, using `Advance_GetObj` to get Object data.

3.15.3.7 `Advance_Reload()`

`void com.radaee.pdf.Document.Advance_Reload ( )`

advanced function to reload document objects.

this method requires premium license.

all pages object return from `Document.GetPage()` shall not be available, after this method is invoked.

3.15.3.8 `CanSave()`

`boolean com.radaee.pdf.Document.CanSave ( )`

check if document can be modified or saved.

this always returns false, if no license is activated.

Returns

true or false.

Reimplemented in `com.radaee.pdf.SuperDoc`.

3.15.3.9 ChangePageRect()

```
boolean com.radaee.pdf.Document.ChangePageRect (
    int pageno,
    float dl,
    float dt,
    float dr,
    float db )
```

change page rect.

a premium license is required for this method.

Parameters

<i>pageno</i>	0 based page NO.
<i>dl</i>	delta to left, page_left += dl;
<i>dt</i>	delta to top, page_top += dt;
<i>dr</i>	delta to right, page_right += dr;
<i>db</i>	delta to bottom, page_bottom += db;

Returns

true or false.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.10 Close()

```
void com.radaee.pdf.Document.Close ( )
```

close the document.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.11 Create()

```
int com.radaee.pdf.Document.Create (
    String path )
```

create a empty PDF document

Parameters

<i>path</i>	path to create
-------------	----------------

Returns

0 or less than 0 means failed, same as Open.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.12 CreateForStream()

```
int com.radaee.pdf.Document.CreateForStream (
    PDFStream stream ) throws Exception
```

create a empty PDF document

Parameters

<i>stream</i>	stream to create
---------------	------------------

Returns

0 or less than 0 means failed, same as Open.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.13 EncryptAs()

```
boolean com.radaee.pdf.Document.EncryptAs (
    String dst,
    String upswd,
    String opswd,
    int perm,
    int method,
    byte[] id )
```

encrypt document and save as the document to another file.
this method require premium license.

Parameters

<i>dst</i>	path to save, same as path parameter of SaveAs.
<i>upswd</i>	user password, can be null.
<i>opswd</i>	owner password, can be null.
<i>perm</i>	permission to set, same as GetPermission() method. bit 1-2 reserved bit 3(0x4) print bit 4(0x8) modify bit 5(0x10) extract text or image others: see PDF reference
<i>method</i>	set 3 means using AES 256bits encrypt(Acrobat X), V=5 and R = 6 mode, others AES with V=4 and R=4 mode.
<i>id</i>	must be 32 bytes for file ID. it is divided to 2 array in native library, as each 16 bytes. RadaeePDF Classic, Android and Java

Returns

true or false.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.14 ExportForm()

```
String com.radaee.pdf.Document.ExportForm ( )
```

export form data as xml string.
this method require premium license.

Returns

xml string or null.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.15 GetEmbedFileData()

```
boolean com.radaee.pdf.Document.GetEmbedFileData (
    int index,
    String save_path )
```

get embed file data, and save to save_path

Parameters

<i>index</i>	range in [0, GetEmbedFilesCount())
<i>save_path</i>	absolute path to save embed file.

Returns

true or false.

3.15.3.16 GetEmbedFileDesc()

```
String com.radaee.pdf.Document.GetEmbedFileDesc (
    int index )
```

get Description of embed file.

Parameters

<i>index</i>	range in [0, GetEmbedFilesCount())
--------------	---

Returns

Description of embed file

3.15.3.17 GetEmbedFileName()

```
String com.radaee.pdf.Document.GetEmbedFileName (
    int index )
```

get name of embed file.

Parameters

<i>index</i>	range in [0, GetEmbedFilesCount())
--------------	---

Returns

name of embed file

3.15.3.18 GetEmbedFilesCount()

```
int com.radaee.pdf.Document.GetEmbedFilesCount ( )
```

get embed files count, for document level.

this method require premium license, it always return 0 if using other license type.

Returns

count

3.15.3.19 GetID()

```
byte[] com.radaee.pdf.Document.GetID (
    int index )
```

get id of document.

Parameters

<i>index</i>	must 0 or 1, 0 means first 16 bytes, 1 means last 16 bytes.
--------------	---

Returns

bytes or null if no id for this document.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.20 GetJS()

```
String com.radaee.pdf.Document.GetJS (
    int index )
```

get javascript.

Parameters

<i>index</i>	range in [0, GetJSCount())
--------------	---

Returns

javascript string

3.15.3.21 GetJSCount()

```
int com.radaee.pdf.Document.GetJSCount ( )
```

get java script count, for document level.

this method require premium license, it always return 0 if using other license type.

Returns

count

3.15.3.22 GetJSName()

```
String com.radaee.pdf.Document.GetJSName (
    int index )
```

get name of javascript.

Parameters

<i>index</i>	range in [0, GetJSCount())g
--------------	--

Returns

name of javascript

3.15.3.23 GetLinearizedStatus()

```
int com.radaee.pdf.Document.GetLinearizedStatus ( )
```

get linearized status.

Returns

- 0: linearized header not loaded or no linearized header.(if setOpenFlag(0); cause always return 0)
- 1: there is linearized header, but linearized entry checked as failed.
- 2: there is linearized header, linearized entry checked succeeded, but hint table is damaged.

- 1. linearized header loaded succeeded.

3.15.3.24 GetMeta()

```
String com.radaee.pdf.Document.GetMeta (
    String tag )
```

get meta data of document.

Parameters

<i>tag</i>	Predefined values:"Title", "Author", "Subject", "Keywords", "Creator", "Producer", "CreationDate", "ModDate". or you can pass any key that self-defined.
------------	---

Returns

Meta string value, or null.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.25 GetOutlines()

[Outline](#) com.radaee.pdf.Document.GetOutlines ()

get first root outline item.

Returns

handle value of first root outline item. or null if no outlines.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.26 GetPage()

[Page](#) com.radaee.pdf.Document.GetPage (
int *pageno*)

get a [Page](#) object for page NO.

Parameters

<i>pageno</i>	0 based page NO. range:[0, GetPageCount() -1]
---------------	---

Returns

[Page](#) object or null.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.27 GetPage0()

[Page](#) com.radaee.pdf.Document.GetPage0 ()

fast get first page, used in first page thumbnail generating.
do not use this method for other purpose.

Returns

[Page](#) object or null.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.28 GetPageCount()

```
int com.radaee.pdf.Document.GetPageCount ( )
```

get pages count.

Returns

pages count.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.29 GetPageHeight()

```
float com.radaee.pdf.Document.GetPageHeight (
    int pageno )
```

get page height by page NO.

Parameters

<i>pageno</i>	0 based page NO. range:[0, GetPageCount() -1]
---------------	---

Returns

height value.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.30 GetPageLabel()

```
String com.radaee.pdf.Document.GetPageLabel (
    int pageno )
```

get label of page

Parameters

<i>pageno</i>	0 based page index number
---------------	---------------------------

Returns

json string or pure text. for json: name is style name of number.
for example:
{ "D":2 } is "2"

```

{"R":3} is "III"
{"r":4} is "iv"
{"A":5} is "E"
{"a":6} is "f"
for pure text: the text is the label.

```

3.15.3.31 GetPagesMaxSize()

```
float[] com.radaee.pdf.Document.GetPagesMaxSize ( )
```

get max width and max height of all pages.

Returns

2 elements container width and height values, or null if failed.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.32 GetPageWidth()

```
float com.radaee.pdf.Document.GetPageWidth (
    int pageno )
```

get page width by page NO.

Parameters

<i>pageno</i>	0 based page NO. range:[0, GetPageCount() -1]
---------------	---

Returns

width value.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.33 GetPerm()

```
int com.radaee.pdf.Document.GetPerm ( )
```

get permission of PDF, this value defined in "Perm" entry in Catalog object.
 mostly, it means the permission from signature.
 this method require a professional or premium license.

Returns

- 0 means not defined
- 1 means can't modify
- 2 means can modify some form fields
- 3 means can do any modify

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.34 GetPermission()

```
int com.radaee.pdf.Document.GetPermission ( )
```

get permission of PDF, this value defined in PDF reference 1.7 mostly, it means the permission from encryption.
this method require a professional or premium license. bit 1-2 reserved
bit 3(0x4) print
bit 4(0x8) modify
bit 5(0x10) extract text or image
others: see PDF reference

Returns

permission flags

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.35 GetXMP()

```
String com.radaee.pdf.Document.GetXMP ( )
```

get XMP string from document.

Returns

null or XML string.

3.15.3.36 ImportStart()

```
ImportContext com.radaee.pdf.Document.ImportStart (
    Document src )
```

Start import operations, import page from src
a premium license is required for this method.
you shall maintenance the source [Document](#) object until all pages are imported and `ImportContext.Destroy()` invoked.

Parameters

<i>src</i>	source Document object that opened.
------------	---

Returns

a context object used in ImportPage.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.37 IsEncrypted()

```
boolean com.radaee.pdf.Document.IsEncrypted ( )
```

check if document is encrypted.

Returns

true or false.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.38 IsOpened()

```
boolean com.radaee.pdf.Document.IsOpened ( )
```

check if opened.

Returns

true or false.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.39 MovePage()

```
boolean com.radaee.pdf.Document.MovePage (
    int pageno1,
    int pageno2 )
```

move the page to other position.
a premium license is required for this method.

Parameters

<i>pageno1</i>	page NO, move from
<i>pageno2</i>	page NO, move to

Returns

true or false

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.40 NewFontCID()

```
DocFont com.radaee.pdf.Document.NewFontCID (
    String font_name,
    int style )
```

create a font object, used to write texts.
a premium license is required for this method.

Parameters

<i>font_name</i>	font name exists in font list. using <code>Global.getFaceCount()</code> , <code>Global.getFaceName()</code> to enumerate fonts.
<i>style</i>	(style&1) means bold, (style&2) means Italic, (style&8) means embed, (style&16) means vertical writing, mostly used in Asia fonts.

Returns

[DocFont](#) object or null is failed.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.41 NewForm()

```
DocForm com.radaee.pdf.Document.NewForm ( )
```

new a form from [Document](#) level. this method require [SetCache\(\)](#) invoked.

Returns

[DocForm](#) object or null.

3.15.3.42 NewGState()

[DocGState](#) com.radaee.pdf.Document.NewGState ()

create a ExtGraphicState object, used to set alpha values.
a premium license is required for this method.

Returns

[DocGState](#) object or null.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.43 NewImage() [1/2]

[DocImage](#) com.radaee.pdf.Document.NewImage (
 Bitmap *bmp*,
 boolean *has_alpha*)

create an image from Bitmap object.

Parameters

<i>bmp</i>	Bitmap object in ARGB_8888/ARGB_4444/RGB_565 format.
<i>has_alpha</i>	generate alpha channel information?

Returns

[DocImage](#) object or null.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.44 NewImage() [2/2]

[DocImage](#) com.radaee.pdf.Document.NewImage (
 Bitmap *bmp*,
 int *matte*)

create an image from Bitmap object.
this method will generate an image with alpha channel.

Parameters

<i>bmp</i>	Bitmap object in ARGB_8888/ARGB_4444 format
<i>matte</i>	matte value.

Returns

[DocImage](#) object or null.

3.15.3.45 NewImageByMem()

```
DocImage com.radaee.pdf.Document.NewImageByMem (
    byte[] data,
    int len )
```

create an image from JPEG/JPG byte array.
supported image color space:

–GRAY
–RGB
–CMYK

Parameters

<i>data</i>	byte array include whole jpg file.
<i>len</i>	byte length of data.

Returns

[DocImage](#) object or null.

3.15.3.46 NewImageJPEG()

```
DocImage com.radaee.pdf.Document.NewImageJPEG (
    String path )
```

create an image from JPEG/JPG file.
supported image color space:

–GRAY
–RGB
–CMYK

Parameters

<i>path</i>	path to JPEG file.
-------------	--------------------

Returns

[DocImage](#) object or null.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.47 NewImageJPX()

[DocImage](#) com.radaee.pdf.Document.NewImageJPX (
 String *path*)

create an image from JPX/JPEG 2k file.

Parameters

<i>path</i>	path to JPX file.
-------------	-------------------

Returns

[DocImage](#) object or null.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.48 NewPage()

[Page](#) com.radaee.pdf.Document.NewPage (
 int *pageno*,
 float *w*,
 float *h*)

insert a page to [Document](#)
if paghen0 >= page_count, it do same as append.
otherwise, insert to pageno.
a premium license is required for this method.

Parameters

<i>pageno</i>	0 based page NO.
<i>w</i>	page width in PDF coordinate
<i>h</i>	page height in PDF coordinate

Returns

[Page](#) object or null means failed.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.49 NewRootOutline()

boolean com.radaee.pdf.Document.NewRootOutline (
 String *label*,

```
int pageno,  
float top )
```

new a root outline to document, it insert first root outline to [Document](#).
the old first root outline, shall be next of this outline.

Parameters

<i>label</i>	label to display
<i>pageno</i>	pageno to jump
<i>top</i>	y position in PDF coordinate

Returns

true or false

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.50 Open() [1/2]

```
int com.radaee.pdf.Document.Open (  
    String path,  
    String cert_file,  
    String password )
```

open PDF, and decrypt PDF using public-key.
this feature only enabled on signed feature version. which native libs has bigger size.

Parameters

<i>path</i>	PDF file path
<i>cert_file</i>	a cert file like .p12 or .pfx file, DER encoded cert file.
<i>password</i>	password to open cert file.

Returns

same as password version.

3.15.3.51 Open() [2/2]

```
int com.radaee.pdf.Document.Open (  
    String path,  
    String password )
```

open document.
first time, SDK try password as user password, and then try password as owner password.

Parameters

<i>path</i>	PDF file to be open.
<i>password</i>	password or null.

Returns

error code:
0:succeeded, and continue
-1:need input password
-2:unknown encryption
-3:damaged or invalid format
-10:access denied or invalid file path
others:unknown error

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.52 OpenMem() [1/2]

```
int com.radaee.pdf.Document.OpenMem (
    byte[] data,
    String cert_file,
    String password )
```

open PDF, and decrypt PDF using public-key.
this feature only enabled on signed feature version. which native libs has bigger size.

Parameters

<i>data</i>	data for whole PDF file in byte array. developers should retain array data, till document closed.
<i>cert_file</i>	a cert file like .p12 or .pfx file, DER encoded cert file.
<i>password</i>	password to open cert file.

Returns

same as password version.

3.15.3.53 OpenMem() [2/2]

```
int com.radaee.pdf.Document.OpenMem (
    byte[] data,
    String password )
```

open document in memory. first time, SDK try password as user password, and then try password as owner password.

Parameters

<i>data</i>	data for whole PDF file in byte array. developers should retain array data, till document closed.
<i>password</i>	password or null.

Returns

error code:
0:succeeded, and continue
-1:need input password
-2:unknown encryption
-3:damaged or invalid format
-10:access denied or invalid file path
others:unknown error

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.54 OpenStream()

```
int com.radaee.pdf.Document.OpenStream (
    PDFStream stream,
    String password )
```

open document from stream. first time, SDK try password as user password, and then try password as owner password.

Parameters

<i>stream</i>	PDFStream object.
<i>password</i>	password or null.

Returns

error code:
0:succeeded, and continue
-1:need input password
-2:unknown encryption
-3:damaged or invalid format
-10:access denied or invalid file path
others:unknown error

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.55 RemovePage()

```
boolean com.radaee.pdf.Document.RemovePage (
    int pageno )
```

remove page by page NO.
a premium license is required for this method.

Parameters

<i>pageno</i>	0 based page NO.
---------------	------------------

Returns

true or false

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.56 RunJS()

```
boolean com.radaee.pdf.Document.RunJS (  
    String js,  
    PDFJSDelegate del ) throws Exception
```

run javascript, NOTICE:considering some complex js, this method is not thread-safe.
this method require premium license, it always return false if using other license type.

Parameters

<i>js</i>	javascript string, can't be null.
<i>del</i>	delegate for javascript running, can't be null.

Returns

if js or del is null, or no premium license activated, return false.
if success running, return true.
otherwise, an exception shall throw to java.

3.15.3.57 Save()

```
boolean com.radaee.pdf.Document.Save ( )
```

save the document.
this always return false, if no license activated.

Returns

true or false

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.58 SaveAs()

```
boolean com.radaee.pdf.Document.SaveAs (
    String path,
    boolean rem_sec )
```

save as the document to another file.
this method require a professional or premium license.

Parameters

<i>path</i>	path to save.
<i>rem_sec</i>	remove security info?

Returns

true or false.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.59 SetCache()

```
boolean com.radaee.pdf.Document.SetCache (
    String path )
```

set cache file to PDF.
a professional or premium license is required for this method.

Parameters

<i>path</i>	a path to save some temporary data, compressed images and so on
-------------	---

Returns

true or false

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.60 SetFontDel()

```
void com.radaee.pdf.Document.SetFontDel (
    PDFFontDelegate del )
```

set font delegate to PDF.
a professional or premium license is required for this method.

Parameters

<i>del</i>	delegate for font mapping, or null to remove delegate.
------------	--

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.61 SetMeta()

```
boolean com.radaee.pdf.Document.SetMeta (
    String tag,
    String val )
```

set meta data for document.
this method valid only in premium version.

Parameters

<i>tag</i>	Predefined values:"Title", "Author", "Subject", "Keywords", "Creator", "Producer", "CreationDate", "ModDate". or you can pass any key that self-defined.
<i>val</i>	string value.

Returns

true or false.

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.62 SetOpenFlag()

```
static void com.radaee.pdf.Document.SetOpenFlag (
    int flag ) [static]
```

a static method set open flag.
the flag is a global setting, which effect all Document.OpenXXX() methods.

Parameters

<i>flag</i>	(flag&1) : load linearzied hint table. (flag&2) : if bit set, mean all pages considered as same size, and SDK will only read first page object in open time, and set all pages size same to first page. (flag&2) only works when (flag&1) is set.
-------------	---

3.15.3.63 SetPageRotate()

```
boolean com.radaee.pdf.Document.SetPageRotate (
    int pageno,
    int degree )
```

set page rotate.

a premium license is required for this method.

Parameters

<i>pageno</i>	0 based page NO.
<i>degree</i>	rotate angle in degree, must be 90 * n.

Returns

true or false

Reimplemented in [com.radaee.pdf.SuperDoc](#).

3.15.3.64 SetXMP()

```
boolean com.radaee.pdf.Document.SetXMP (
    String xmp )
```

set XMP string from document.

this method require premium license.

Parameters

<i>xmp</i>	xmp string to set.
------------	--------------------

Returns

true or false.

3.15.3.65 VerifySign()

```
int com.radaee.pdf.Document.VerifySign (
    Sign sign )
```

verify the signature

a premium license is required for this method.

Parameters

<i>sign</i>	signature object from Annotation.GetSign()
-------------	--

Returns

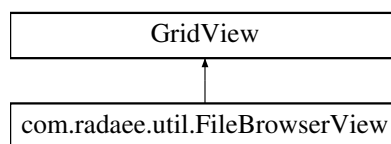
0 if verify OK, others are error.

The documentation for this class was generated from the following file:

- Document.java

3.16 com.radaee.util.FileBrowserView Class Reference

Inheritance diagram for com.radaee.util.FileBrowserView:



Classes

- class **FileBrowserAdt**
- class **FileGridItem**

Public Member Functions

- **FileBrowserView** (Context context, AttributeSet attrs)
- void **FileInit** (String rootPath, String[] filters)
- void **FileGotoSubdir** (String name)
- void **close** ()
- String **getPath** ()

Protected Member Functions

- void **onSizeChanged** (int w, int h, int oldw, int oldh)
- void **finalize** () throws Throwable

The documentation for this class was generated from the following file:

- FileBrowserView.java

3.17 com.radaee.pdf.Page.Finder Class Reference

Public Member Functions

- final int [GetCount](#) ()
- final int [GetFirstChar](#) (int index)
- final int [GetEndChar](#) (int index)
- final void [Close](#) ()

Protected Member Functions

- void [finalize](#) () throws Throwable

Protected Attributes

- long [hand](#)

3.17.1 Member Function Documentation

3.17.1.1 Close()

```
final void com.radaee.pdf.Page.Finder.Close ( )
```

free memory of find session.

3.17.1.2 GetCount()

```
final int com.radaee.pdf.Page.Finder.GetCount ( )
```

get find count in this page.

Returns

count or 0 if no found.

3.17.1.3 GetFirstChar()

```
final int com.radaee.pdf.Page.Finder.GetFirstChar (
    int index )
```

get first char index.

Parameters

<i>index</i>	0 based index value. range:[0, FindGetCount()-1]
--------------	--

Returns

the first char index of texts, see: `ObjsGetString`. range:[0, [ObjsGetCharCount\(\)](#)-1]

The documentation for this class was generated from the following file:

- `Page.java`

3.18 com.radaee.view.GLBlock Class Reference

Static Public Member Functions

- static void **drawQuadColor** (GL10 gl10, int text_white, int vx00, int vy00, int vx10, int vy10, int vx01, int vy01, int vx11, int vy11, float r, float g, float b)
- static void **drawQuadFixed** (GL10 gl10, int vx00, int vy00, int vx10, int vy10, int vx01, int vy01, int vx11, int vy11, int tx00, int ty00, int tx10, int ty10, int tx01, int ty01, int tx11, int ty11)

Static Public Attributes

- static int **m_cell_size** = 0

Protected Member Functions

- **GLBlock** ([GLBlock](#) src, [Document](#) doc)
- **GLBlock** ([Document](#) doc, int pageno, float scale, int x, int y, int w, int h, int ph)
- final boolean **has_render** ()
- final boolean **is_rendering** ()
- final void **bk_render** ()
- final void **bk_destroy** ()
- final boolean **gl_start** ()
- final boolean **gl_end** (GL10 gl10)
- final void **gl_draw** (GL10 gl10, int def_text, int left, int top, int right, int bottom)
- final void **gl_draw_curl** (GL10 gl10, int def_text, int type, int x, int y, int text_shadow)
- final boolean **gl_make_text** ()
- final boolean **isCross** (int left, int top, int right, int bottom)
- final int **GetX** ()
- final int **GetY** ()
- final int **GetRight** ()
- final int **GetBottom** ()
- final int **GetW** ()
- final int **GetH** ()
- final int **GetPageNo** ()
- void **finalize** () throws Throwable

Static Protected Member Functions

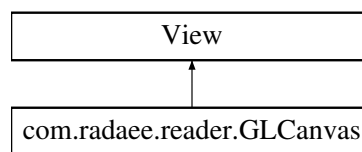
- static IntBuffer **create_buf** (int[] val)
- static ByteBuffer **create_buf** (byte[] val)

The documentation for this class was generated from the following file:

- GLBlock.java

3.19 com.radaee.reader.GLCanvas Class Reference

Inheritance diagram for com.radaee.reader.GLCanvas:



Classes

- interface [CanvasListener](#)

Public Member Functions

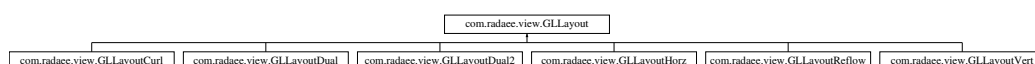
- **GLCanvas** (Context context, @Nullable AttributeSet attrs, int defStyleAttr)
- **GLCanvas** (Context context, @Nullable AttributeSet attrs)
- **GLCanvas** (Context context)
- void **vOpen** ([CanvasListener](#) listener)
- void **draw** (Canvas canvas)

The documentation for this class was generated from the following file:

- GLCanvas.java

3.20 com.radaee.view.GLLayout Class Reference

Inheritance diagram for com.radaee.view.GLLayout:



Classes

- interface [GLListener](#)
- class **PDFPos**

Public Member Functions

- void **vOpen** ([Document](#) doc, [GLListener](#) listener, int page_gap)
- void **gl_surface_create** (GL10 gl10)
- void **gl_surface_destroy** (GL10 gl10)
- void **gl_close** (GL10 gl10)
- final boolean **gl_is_scroll_finished** ()
- void **gl_fill_color** (GL10 gl10, int left, int top, int right, int bottom, float r, float g, float b)
- void **gl_draw** (GL10 gl10)
- void **gl_sync** ()
- final [GLPage](#) **vGetPage** (int pageno)
- abstract int **vGetPage** (int vx, int vy)
- abstract void **gl_layout** (float scale, boolean zoom)
- void **vSetPos** (int vx, int vy, PDFPos pos)
- PDFPos **vGetPos** (int vx, int vy)
- void **gl_reset** (GL10 gl10)
- void **gl_resize** (int cx, int cy)
- final void **gl_abort_scroll** ()
- boolean **gl_fling** (int holdx, int holdy, float dx, float dy, float vx, float vy)
- void **gl_down** (int x, int y)
- void **gl_move** (int x, int y)
- void **gl_move_end** ()
- int **gl_click** (int x, int y)
- boolean **vSupportZoom** ()
- final int **vGetX** ()
- void **vSetX** (int x)
- final int **vGetY** ()
- void **vSetY** (int y)
- final float **vGetZoom** ()
- final void **gl_zoom_set** (float zoom)
- void **gl_zoom_set_pos** (int vx, int vy, PDFPos pos)
- void **gl_zoom_start** (GL10 gl10)
- void **gl_zoom_confirm** (GL10 gl10)
- void **gl_render** ([GLPage](#) page)
- void **vGotoPage** (int pageno)
- void **vScrollToPage** (int pageno)
- void **vFindStart** (String key, boolean match_case, boolean whole_word)
- int **vFind** (int dir)
- void **vFindEnd** ()
- boolean **vCanSave** ()
- void **vFindDraw** (Canvas canvas)
- final boolean **vHasFind** ()
- final void **vClear** (GL10 gl10, int color)
- final boolean **vRenderFinished** ()

Protected Member Functions

- **GLLayout** (Context context)
- void **gl_flush_range** (GL10 gl10)
- void **vFindGoto** ()

Protected Attributes

- Context **m_ctx**
- Scroller **m_scroller**
- [GLPage\[\]](#) **m_pages**
- int **m_page_gap**
- int **m_page_cnt**
- [Document](#) **m_doc**
- [VFinder](#) **m_finder**
- [GLListener](#) **m_listener**
- [GLThread](#) **m_thread**
- int **m_pageno1**
- int **m_pageno2**
- float **m_scale**
- float **m_scale_min**
- int **m_layw**
- int **m_layh**
- int **m_vw**
- int **m_vh**
- int **m_def_text**

Static Protected Attributes

- static float **m_max_zoom** = Global.g_layout_zoom_level

3.20.1 Member Function Documentation

3.20.1.1 gl_render()

```
void com.radaee.view.GLLayout.gl_render (
    GLPage page )
```

render page again, after page modified.

Parameters

<i>page</i>	page object obtained by vGetPage()
-------------	------------------------------------

3.20.1.2 gl_resize()

```
void com.radaee.view.GLLayout.gl_resize (
    int cx,
    int cy )
```

invoke when resize.

Parameters

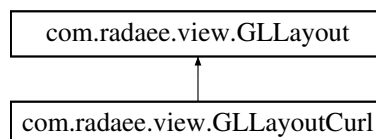
<code>cx</code>	new width
<code>cy</code>	new height

The documentation for this class was generated from the following file:

- `GLLayout.java`

3.21 `com.radaee.view.GLLayoutCurl` Class Reference

Inheritance diagram for `com.radaee.view.GLLayoutCurl`:



Public Member Functions

- **`GLLayoutCurl`** (`Context context`)
- `int vGetPage` (`int vx`, `int vy`)
- `void gl_layout` (`float scale`, `boolean zoom`)
- `void gl_down` (`int x`, `int y`)
- `void gl_move` (`int x`, `int y`)
- `void gl_move_end` ()
- `boolean gl_fling` (`int holdx`, `int holdy`, `float dx`, `float dy`, `float vx`, `float vy`)
- `int gl_click` (`int x`, `int y`)
- `boolean vSupportZoom` ()
- `void gl_draw` (`GL10 gl10`)
- `PDFPos vGetPos` (`int vx`, `int vy`)
- `void vSetPos` (`int vx`, `int vy`, `PDFPos pos`)
- `void vGotoPage` (`int pageno`)
- `void vScrolltoPage` (`int pageno`)
- `void gl_close` (`GL10 gl10`)
- `void gl_surface_destroy` (`GL10 gl10`)

Additional Inherited Members

3.21.1 Member Function Documentation

3.21.1.1 gl_click()

```
int com.radaee.view.GLLayoutCurl.gl_click (
    int x,
    int y )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.2 gl_close()

```
void com.radaee.view.GLLayoutCurl.gl_close (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.3 gl_down()

```
void com.radaee.view.GLLayoutCurl.gl_down (
    int x,
    int y )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.4 gl_draw()

```
void com.radaee.view.GLLayoutCurl.gl_draw (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.5 gl_fling()

```
boolean com.radaee.view.GLLayoutCurl.gl_fling (
    int holdx,
    int holdy,
    float dx,
    float dy,
    float vx,
    float vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.6 `gl_layout()`

```
void com.radaee.view.GLLayoutCurl.gl_layout (
    float scale,
    boolean zoom )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.7 `gl_move()`

```
void com.radaee.view.GLLayoutCurl.gl_move (
    int x,
    int y )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.8 `gl_move_end()`

```
void com.radaee.view.GLLayoutCurl.gl_move_end ( )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.9 `gl_surface_destroy()`

```
void com.radaee.view.GLLayoutCurl.gl_surface_destroy (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.10 `vGetPage()`

```
int com.radaee.view.GLLayoutCurl.vGetPage (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.11 vGetPos()

```
PDFPos com.radaee.view.GLLayoutCurl.vGetPos (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.12 vGotoPage()

```
void com.radaee.view.GLLayoutCurl.vGotoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.13 vScrolltoPage()

```
void com.radaee.view.GLLayoutCurl.vScrolltoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.14 vSetPos()

```
void com.radaee.view.GLLayoutCurl.vSetPos (
    int vx,
    int vy,
    PDFPos pos )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.21.1.15 vSupportZoom()

```
boolean com.radaee.view.GLLayoutCurl.vSupportZoom ( )
```

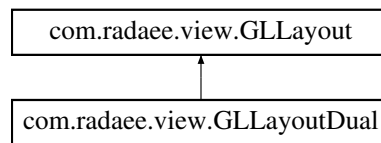
Reimplemented from [com.radaee.view.GLLayout](#).

The documentation for this class was generated from the following file:

- GLLayoutCurl.java

3.22 com.radaee.view.GLLayoutDual Class Reference

Inheritance diagram for com.radaee.view.GLLayoutDual:



Public Member Functions

- **GLLayoutDual** (Context context, int align, int scale_mode, boolean rtol, boolean[] horz_dual, boolean[] vert_dual)
- void [gl_draw](#) (GL10 gl10)
- int [vGetPage](#) (int vx, int vy)
- void [gl_layout](#) (float scale, boolean zoom)
- boolean [gl_fling](#) (int holdx, int holdy, float dx, float dy, float vx, float vy)
- void [gl_move_end](#) ()
- void [vGotoPage](#) (int pageno)
- void [vScrolltoPage](#) (int pageno)
- void [gl_zoom_set_pos](#) (int vx, int vy, PDFPos pos)
- void [gl_zoom_confirm](#) (GL10 gl10)

Static Public Attributes

- static final int **SCALE_NONE** = 0
- static final int **SCALE_SAME_WIDTH** = 1
- static final int **SCALE_SAME_HEIGHT** = 2
- static final int **SCALE_FIT** = 3
- static final int **ALIGN_CENTER** = 0
- static final int **ALIGN_TOP** = 1
- static final int **ALIGN_BOTTOM** = 2

Protected Member Functions

- void [gl_flush_range](#) (GL10 gl10)

Additional Inherited Members

3.22.1 Member Function Documentation

3.22.1.1 `gl_draw()`

```
void com.radaee.view.GLLayoutDual.gl_draw (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.2 `gl_fling()`

```
boolean com.radaee.view.GLLayoutDual.gl_fling (
    int holdx,
    int holdy,
    float dx,
    float dy,
    float vx,
    float vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.3 `gl_flush_range()`

```
void com.radaee.view.GLLayoutDual.gl_flush_range (
    GL10 gl10 ) [protected]
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.4 `gl_layout()`

```
void com.radaee.view.GLLayoutDual.gl_layout (
    float scale,
    boolean zoom )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.5 `gl_move_end()`

```
void com.radaee.view.GLLayoutDual.gl_move_end ( )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.6 gl_zoom_confirm()

```
void com.radaee.view.GLLayoutDual.gl_zoom_confirm (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.7 gl_zoom_set_pos()

```
void com.radaee.view.GLLayoutDual.gl_zoom_set_pos (
    int vx,
    int vy,
    PDFPos pos )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.8 vGetPage()

```
int com.radaee.view.GLLayoutDual.vGetPage (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.9 vGotoPage()

```
void com.radaee.view.GLLayoutDual.vGotoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.22.1.10 vScrolltoPage()

```
void com.radaee.view.GLLayoutDual.vScrolltoPage (
    int pageno )
```

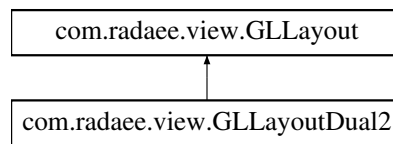
Reimplemented from [com.radaee.view.GLLayout](#).

The documentation for this class was generated from the following file:

- GLLayoutDual.java

3.23 com.radaee.view.GLLayoutDual2 Class Reference

Inheritance diagram for com.radaee.view.GLLayoutDual2:



Public Member Functions

- **GLLayoutDual2** (Context context, int align, int scale_mode, boolean rtol, boolean[] horz_dual, boolean[] vert_dual)
- int **vGetPage** (int vx, int vy)
- void **gl_layout** (float scale, boolean zoom)
- boolean **gl_fling** (int holdx, int holdy, float dx, float dy, float vx, float vy)
- void **gl_move_end** ()
- void **vGotoPage** (int pageno)
- void **vScrolltoPage** (int pageno)
- void **gl_zoom_set_pos** (int vx, int vy, PDFPos pos)
- void **gl_zoom_confirm** (GL10 gl10)

Static Public Attributes

- static final int **SCALE_NONE** = 0
- static final int **SCALE_SAME_WIDTH** = 1
- static final int **SCALE_SAME_HEIGHT** = 2
- static final int **SCALE_FIT** = 3
- static final int **ALIGN_CENTER** = 0
- static final int **ALIGN_LEFT** = 1
- static final int **ALIGN_RIGHT** = 2

Additional Inherited Members

3.23.1 Member Function Documentation

3.23.1.1 gl_fling()

```

boolean com.radaee.view.GLLayoutDual2.gl_fling (
    int holdx,
    int holdy,
    float dx,
    float dy,
    float vx,
    float vy )
  
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.23.1.2 `gl_layout()`

```
void com.radaee.view.GLLayoutDual2.gl_layout (
    float scale,
    boolean zoom )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.23.1.3 `gl_move_end()`

```
void com.radaee.view.GLLayoutDual2.gl_move_end ( )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.23.1.4 `gl_zoom_confirm()`

```
void com.radaee.view.GLLayoutDual2.gl_zoom_confirm (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.23.1.5 `gl_zoom_set_pos()`

```
void com.radaee.view.GLLayoutDual2.gl_zoom_set_pos (
    int vx,
    int vy,
    PDFPos pos )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.23.1.6 `vGetPage()`

```
int com.radaee.view.GLLayoutDual2.vGetPage (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.23.1.7 vGotoPage()

```
void com.radaee.view.GLLayoutDual2.vGotoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.23.1.8 vScrolltoPage()

```
void com.radaee.view.GLLayoutDual2.vScrolltoPage (
    int pageno )
```

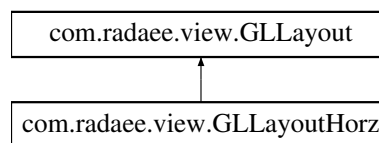
Reimplemented from [com.radaee.view.GLLayout](#).

The documentation for this class was generated from the following file:

- GLLayoutDual2.java

3.24 com.radaee.view.GLLayoutHorz Class Reference

Inheritance diagram for com.radaee.view.GLLayoutHorz:



Public Member Functions

- **GLLayoutHorz** (Context context, boolean rtol, boolean same_height)
- int [vGetPage](#) (int vx, int vy)
- void [gl_layout](#) (float scale, boolean zoom)

Additional Inherited Members

3.24.1 Member Function Documentation

3.24.1.1 gl_layout()

```
void com.radaee.view.GLLayoutHorz.gl_layout (
    float scale,
    boolean zoom )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.24.1.2 vGetPage()

```
int com.radaee.view.GLLayoutHorz.vGetPage (
    int vx,
    int vy )
```

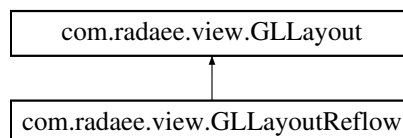
Reimplemented from [com.radaee.view.GLLayout](#).

The documentation for this class was generated from the following file:

- GLLayoutHorz.java

3.25 com.radaee.view.GLLayoutReflow Class Reference

Inheritance diagram for com.radaee.view.GLLayoutReflow:



Public Member Functions

- **GLLayoutReflow** (Context context)
- int [vGetPage](#) (int vx, int vy)
- void [gl_layout](#) (float scale, boolean zoom)
- PDFPos [vGetPos](#) (int vx, int vy)
- void [vSetPos](#) (int vx, int vy, PDFPos pos)
- void [vGotoPage](#) (int pageno)
- void [vScrolltoPage](#) (int pageno)
- boolean [vSupportZoom](#) ()
- void [gl_draw](#) (GL10 gl10)
- void [gl_close](#) (GL10 gl10)
- int [gl_click](#) (int x, int y)
- boolean [vCanSave](#) ()
- void [vFindStart](#) (String key, boolean match_case, boolean whole_word)
- void [gl_zoom_start](#) (GL10 gl10)
- void [gl_zoom_confirm](#) (GL10 gl10)
- void [gl_surface_create](#) (GL10 gl10)
- void [gl_surface_destroy](#) (GL10 gl10)

Additional Inherited Members

3.25.1 Member Function Documentation

3.25.1.1 gl_click()

```
int com.radaee.view.GLLayoutReflow.gl_click (
    int x,
    int y )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.2 gl_close()

```
void com.radaee.view.GLLayoutReflow.gl_close (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.3 gl_draw()

```
void com.radaee.view.GLLayoutReflow.gl_draw (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.4 gl_layout()

```
void com.radaee.view.GLLayoutReflow.gl_layout (
    float scale,
    boolean zoom )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.5 gl_surface_create()

```
void com.radaee.view.GLLayoutReflow.gl_surface_create (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.6 `gl_surface_destroy()`

```
void com.radaee.view.GLLayoutReflow.gl_surface_destroy (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.7 `gl_zoom_confirm()`

```
void com.radaee.view.GLLayoutReflow.gl_zoom_confirm (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.8 `gl_zoom_start()`

```
void com.radaee.view.GLLayoutReflow.gl_zoom_start (
    GL10 gl10 )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.9 `vCanSave()`

```
boolean com.radaee.view.GLLayoutReflow.vCanSave ( )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.10 `vFindStart()`

```
void com.radaee.view.GLLayoutReflow.vFindStart (
    String key,
    boolean match_case,
    boolean whole_word )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.11 vGetPage()

```
int com.radaee.view.GLLayoutReflow.vGetPage (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.12 vGetPos()

```
PDFPos com.radaee.view.GLLayoutReflow.vGetPos (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.13 vGotoPage()

```
void com.radaee.view.GLLayoutReflow.vGotoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.14 vScrolltoPage()

```
void com.radaee.view.GLLayoutReflow.vScrolltoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.15 vSetPos()

```
void com.radaee.view.GLLayoutReflow.vSetPos (
    int vx,
    int vy,
    PDFPos pos )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.25.1.16 vSupportZoom()

```
boolean com.radaee.view.GLLayoutReflow.vSupportZoom ( )
```

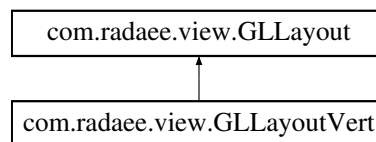
Reimplemented from [com.radaee.view.GLLayout](#).

The documentation for this class was generated from the following file:

- GLLayoutReflow.java

3.26 com.radaee.view.GLLayoutVert Class Reference

Inheritance diagram for com.radaee.view.GLLayoutVert:



Public Member Functions

- **GLLayoutVert** (Context context, int align, boolean same_width)
- int [vGetPage](#) (int vx, int vy)
- void [gl_layout](#) (float scale, boolean zoom)

Static Public Attributes

- static final int **ALIGN_CENTER** = 0
- static final int **ALIGN_LEFT** = 1
- static final int **ALIGN_RIGHT** = 2

Additional Inherited Members

3.26.1 Member Function Documentation

3.26.1.1 gl_layout()

```
void com.radaee.view.GLLayoutVert.gl_layout (
    float scale,
    boolean zoom )
```

Reimplemented from [com.radaee.view.GLLayout](#).

3.26.1.2 vGetPage()

```
int com.radaee.view.GLLayoutVert.vGetPage (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.GLLayout](#).

The documentation for this class was generated from the following file:

- GLLayoutVert.java

3.27 com.radaee.view.GLLayout.GLListener Interface Reference

Public Member Functions

- void **OnBlockRendered** (int pageno)
- void **OnFound** (boolean found)
- void **OnRedraw** ()

3.27.1 Detailed Description

call-back listener classv

Author

radaee

The documentation for this interface was generated from the following file:

- GLLayout.java

3.28 com.radaee.pdf.Global Class Reference

Static Public Member Functions

- static boolean **Init** (Context ctx)
- static native float **sqrtf** (float v)
- static native void **hideAnnots** (boolean hide)
- static native boolean **drawAnnotIcon** (int annot_type, int icon, Bitmap bitmap)
- static void **DrawScroll** (Bitmap bmp, **DIB** dib1, **DIB** dib2, int x, int y, int style, int back_side_clr)
- static native void **setAnnotTransparency** (int color)
- static boolean **Init** (ContextWrapper act, int license_type, String company_name, String mail, String serial)
- static void **default_config** ()
- static void **ToDIBPoint** (**Matrix** mat, float[] ppoint, float[] dpoint)
- static void **ToPDFPoint** (**Matrix** mat, float[] dpoint, float[] ppoint)
- static void **ToDIBRect** (**Matrix** mat, float[] prect, float[] direct)
- static void **ToPDFRect** (**Matrix** mat, float[] direct, float[] prect)
- static void **ToDIBPoint** (float ratio, int dib_h, float[] ppoint, float[] dpoint)
- static void **ToPDFPoint** (float ratio, int dib_h, float[] dpoint, float[] ppoint)
- static void **ToDIBRect** (float ratio, int dib_h, float[] prect, float[] direct)
- static void **ToPDFRect** (float ratio, int dib_h, float[] direct, float[] prect)
- static void **RemoveTmp** ()
- static int **getActiveType** ()

Static Public Attributes

- static int **mLicenseType** = 3
- static String **mCompany** = "radaee"
- static String **mEmail** = "radaee_com@yahoo.cn"
- static String **mKey** = "LNJFDN-C89QFX-9ZOU9E-OQ31K2-FADG6Z-XEBCAO"
- static int **inkColor** = 0x80404040
- static float **inkWidth** = 4
- static int **selColor** = 0x400000C0
- static boolean **g_use_sel_icons** = true
- static int **annotTransparencyColor** = 0x200040FF
- static int **findPrimaryColor** = 0x400000FF
- static int **findSecondaryColor** = 0x40404040
- static float **g_zoom_step** = 1
- static float **g_view_zoom_level** = 3
- static float **g_layout_zoom_level** = 11
- static float **g_layout_zoom_clip** = 2.5f
- static float **fling_dis** = 1.0f
- static float **fling_speed** = 0.2f
- static int **g_def_view** = 0
- static int **g_render_quality** = 2
- static boolean **dark_mode** = false
- static String **tmp_path** = null
- static int **thumbViewBgColor** = 0x40CCCCCC
- static int **thumbGridBgColor** = 0xFFCCCCCC
- static int **thumbViewHeight** = 100
- static int **thumbGridElementHeight** = 150
- static int **thumbGridElementGap** = 10
- static int **thumbGridViewMode** = 0
- static int **readerViewBgColor** = 0xFFCCCCCC
- static int **navigationMode** = 1
- static boolean **debug_mode** = false
- static boolean **g_highlight_annotation** = true
- static boolean **g_save_thumb_in_cache** = true
- static boolean **g_layout_rtol** = false
- static boolean **g_sel_rtol** = false
- static boolean **g_cache_enable** = true
- static int **g_highlight_color** = 0xFFFFF00
- static int **g_underline_color** = 0xFF0000C0
- static int **g_strikeout_color** = 0xFFC00000
- static int **g_squiggle_color** = 0xFF00C000
- static int **gridview_icon_color** = 0xFFFF9040
- static int **toolbar_icon_color** = 0xFFFF9040
- static int **toolbar_bg_color** = 0xFF202020
- static boolean **g_hand_signature** = true
- static boolean **g_fake_sign** = false
- static boolean **g_exec_js** = true
- static String **g_annot_def_author**
- static boolean **g_annot_lock** = true
- static boolean **g_annot_readonly** = true
- static boolean **g_auto_launch_link** = true
- static float **rect_annot_width** = 3
- static int **rect_annot_color** = 0x80FF0000
- static int **rect_annot_fill_color** = 0x800000FF
- static float **ellipse_annot_width** = 3

- static int **ellipse_annot_color** = 0x80FF0000
- static int **ellipse_annot_fill_color** = 0x800000FF
- static float **line_annot_width** = 3
- static int **line_annot_style1** = 1
- static int **line_annot_style2** = 0
- static int **line_annot_color** = 0x80FF0000
- static int **line_annot_fill_color** = 0x800000FF
- static boolean **fit_different_page_size** = false
- static boolean **g_auto_save_doc** = false
- static boolean **g_match_whole_word** = false
- static boolean **g_case_sensitive** = false

3.28.1 Detailed Description

class for [Global](#) setting.

Author

RadaeePDF.com

Version

3.60.4

3.28.2 Member Function Documentation

3.28.2.1 default_config()

```
static void com.radaee.pdf.Global.default_config ( ) [static]
```

reset to default configure.

3.28.2.2 drawAnnotIcon()

```
static native boolean com.radaee.pdf.Global.drawAnnotIcon (
    int annot_type,
    int icon,
    Bitmap bitmap ) [static]
```

draw icon to Bitmap object

Parameters

<i>annot_type</i>	1(text note) or 17(file attachment)
<i>icon</i>	same as Annotation.GetIcon()
<i>bitmap</i>	Bitmap object

Returns

true or false.

3.28.2.3 DrawScroll()

```
static void com.radaee.pdf.Global.DrawScroll (
    Bitmap bmp,
    DIB dib1,
    DIB dib2,
    int x,
    int y,
    int style,
    int back_side_clr ) [static]
```

deprecatd, not used for developer any more, referenced form deprecatd class.

3.28.2.4 hideAnnots()

```
static native void com.radaee.pdf.Global.hideAnnots (
    boolean hide ) [static]
```

hide all annotations when render pages?

Parameters

<i>hide</i>	true to hide, false to show.
-------------	------------------------------

3.28.2.5 Init()

```
static boolean com.radaee.pdf.Global.Init (
    ContextWrapper act,
    int license_type,
    String company_name,
    String mail,
    String serial ) [static]
```

global initialize function. it load JNI library and write some data to memory.

Parameters

<i>act</i>	Context object must derived from CoontextWrapper, native get package name from this Activity, and then check package name.
<i>license_type</i>	0: standard license, 1: professional license, 2: premium license.
<i>company_name</i>	field to activer license
<i>mail</i>	field to activer license
<i>serial</i>	Serial Number

Returns

true or false

setAnnotFont("DroidSansFallback") &&

3.28.2.6 RemoveTmp()

```
static void com.radaee.pdf.Global.RemoveTmp ( ) [static]
```

remove all tmp files that generated when user click multi-media annotations.

3.28.2.7 setAnnotTransparency()

```
static native void com.radaee.pdf.Global.setAnnotTransparency (
    int color ) [static]
```

set annotation transparency color.
default value: 0x200040FF

Parameters

<i>color</i>	formatted as 0xAARRGGBB
--------------	-------------------------

3.28.2.8 ToDIBPoint() [1/2]

```
static void com.radaee.pdf.Global.ToDIBPoint (
    float ratio,
    int dib_h,
    float[] ppoint,
    float[] dpoint ) [static]
```

map PDF point to [DIB](#) point.

Parameters

<i>ratio</i>	scale value apply to page rendering.
<i>dib↔_h</i>	height of render bitmap.
<i>ppoint</i>	input point in PDF coordinate system. [x, y]
<i>dpoint</i>	output point in DIB coordinate system. [x, y]

3.28.2.9 ToDIBPoint() [2/2]

```
static void com.radaee.pdf.Global.ToDIBPoint (
```

```

    Matrix mat,
    float[] ppoint,
    float[] dpoint ) [static]

```

map PDF point to [DIB](#) point.

Parameters

<i>mat</i>	Matrix object defined scale, rotate, tranlate operations.
<i>ppoint</i>	input point in PDF coordinate system. [x, y]
<i>dpoint</i>	output point in DIB coordinate system. [x, y]

3.28.2.10 ToDIBRect() [1/2]

```

static void com.radaee.pdf.Global.ToDIBRect (
    float ratio,
    int dib_h,
    float[] prect,
    float[] drect ) [static]

```

map PDF rectangle to [DIB](#) rectangle.

Parameters

<i>ratio</i>	scale value apply to page rendering.
<i>dib_h</i>	height of render bitmap.
<i>prect</i>	input rect in PDF coordinate system. [left, top, right, bottom]
<i>drect</i>	output rect in DIB coordinate system. [left, top, right, bottom]

3.28.2.11 ToDIBRect() [2/2]

```

static void com.radaee.pdf.Global.ToDIBRect (
    Matrix mat,
    float[] prect,
    float[] drect ) [static]

```

map PDF rectangle to [DIB](#) rectangle.

Parameters

<i>mat</i>	Matrix object defined scale, rotate, tranlate operations.
<i>prect</i>	input rect in PDF coordinate system. [left, top, right, bottom]
<i>drect</i>	output rect in DIB coordinate system. [left, top, right, bottom]

3.28.2.12 ToPDFPoint() [1/2]

```
static void com.radaee.pdf.Global.ToPDFPoint (
    float ratio,
    int dib_h,
    float[] dpoint,
    float[] ppoint ) [static]
```

map [DIB](#) point to PDF point.

Parameters

<i>ratio</i>	scale value apply to page rendering.
<i>dib_h</i>	height of render bitmap.
<i>dpoint</i>	input point in DIB coordinate system. [x, y]
<i>ppoint</i>	output point in PDF coordinate system. [x, y]

3.28.2.13 ToPDFPoint() [2/2]

```
static void com.radaee.pdf.Global.ToPDFPoint (
    Matrix mat,
    float[] dpoint,
    float[] ppoint ) [static]
```

map [DIB](#) point to PDF point.

Parameters

<i>mat</i>	Matrix object defined scale, rotate, tranlate operations.
<i>dpoint</i>	input point in DIB coordinate system. [x, y]
<i>ppoint</i>	output point in PDF coordinate system. [x, y]

3.28.2.14 ToPDFRect() [1/2]

```
static void com.radaee.pdf.Global.ToPDFRect (
    float ratio,
    int dib_h,
    float[] drect,
    float[] prect ) [static]
```

map [DIB](#) rectangle to PDF rectangle.

Parameters

<i>ratio</i>	scale value apply to page rendering.
<i>dib↔ _h</i>	height of render bitmap.
<i>drect</i>	input rect in DIB coordinate system. [left, top, right, bottom]
<i>prect</i>	output rect in PDF coordinate system. [left, top, right, bottom]

3.28.2.15 ToPDFRect() [2/2]

```
static void com.radaee.pdf.Global.ToPDFRect (
    Matrix mat,
    float[] drect,
    float[] prect ) [static]
```

map [DIB](#) rectangle to PDF rectangle.

Parameters

<i>mat</i>	Matrix object defined scale, rotate, tranlate operations.
<i>drect</i>	input rect in DIB coordinate system. [left, top, right, bottom]
<i>prect</i>	output rect in PDF coordinate system. [left, top, right, bottom]

3.28.3 Member Data Documentation**3.28.3.1 annotTransparencyColor**

```
int com.radaee.pdf.Global.annotTransparencyColor = 0x200040FF [static]
```

Annotation transparency color

3.28.3.2 dark_mode

```
boolean com.radaee.pdf.Global.dark_mode = false [static]
```

render as dark mode?

3.28.3.3 ellipse_annot_width

```
float com.radaee.pdf.Global.ellipse_annot_width = 3 [static]
```

Annot Ellipse params

3.28.3.4 findPrimaryColor

```
int com.radaee.pdf.Global.findPrimaryColor = 0x400000FF [static]
```

find primary color.

3.28.3.5 findSecondaryColor

```
int com.radaee.pdf.Global.findSecondaryColor = 0x40404040 [static]
```

find secondary color.

3.28.3.6 fling_dis

```
float com.radaee.pdf.Global.fling_dis = 1.0f [static]
```

fling distance: 0.5-2

3.28.3.7 fling_speed

```
float com.radaee.pdf.Global.fling_speed = 0.2f [static]
```

fling speed: 0.1-0.4

3.28.3.8 g_auto_launch_link

```
boolean com.radaee.pdf.Global.g_auto_launch_link = true [static]
```

if true the link action will be performed immediately otherwise the user must click on the play button

3.28.3.9 g_auto_save_doc

```
boolean com.radaee.pdf.Global.g_auto_save_doc = false [static]
```

Enables automatic save

3.28.3.10 g_case_sensitive

```
boolean com.radaee.pdf.Global.g_case_sensitive = false [static]
```

Enables case-sensitive search

3.28.3.11 g_def_view

```
int com.radaee.pdf.Global.g_def_view = 0 [static]
```

default layout/view type:

0:vertical

1:horizontal

2:scroll

3:single

4:SingleEx

5:ReFlow

6:2 page in landscape

3.28.3.12 g_match_whole_word

```
boolean com.radaee.pdf.Global.g_match_whole_word = false [static]
```

Enables 'whole word' matching

3.28.3.13 g_view_zoom_level

```
float com.radaee.pdf.Global.g_view_zoom_level = 3 [static]
```

can't be neg value. 15 means 15x(fit screen scale) zooming. Starting from version 3.12beta2 (which introduces enhancements in transparency composing and color blending) we recommend using 11 as the max level, higher levels will reduce performance

3.28.3.14 inkColor

```
int com.radaee.pdf.Global.inkColor = 0x80404040 [static]
```

color for ink annotation

3.28.3.15 inkWidth

```
float com.radaee.pdf.Global.inkWidth = 4 [static]
```

width for ink lines.

3.28.3.16 line_annot_width

```
float com.radaee.pdf.Global.line_annot_width = 3 [static]
```

Annot Line params

3.28.3.17 navigationMode

```
int com.radaee.pdf.Global.navigationMode = 1 [static]
```

navigation mode, 0:thumbnail view 1:seekbar view

3.28.3.18 readerViewBgColor

```
int com.radaee.pdf.Global.readerViewBgColor = 0xFFCCCCCC [static]
```

Reader view background color

3.28.3.19 rect_annot_width

```
float com.radaee.pdf.Global.rect_annot_width = 3 [static]
```

Annot Rect params

3.28.3.20 selColor

```
int com.radaee.pdf.Global.selColor = 0x400000C0 [static]
```

selection color.

3.28.3.21 thumbGridBgColor

```
int com.radaee.pdf.Global.thumbGridBgColor = 0xFFCCCCCC [static]
```

Thumb grid view's background color

3.28.3.22 thumbGridElementGap

```
int com.radaee.pdf.Global.thumbGridElementGap = 10 [static]
```

Thumb grid view's element gap (the vertical/horizontal spacing)

3.28.3.23 thumbGridElementHeight

```
int com.radaee.pdf.Global.thumbGridElementHeight = 150 [static]
```

Thumb grid view's element height in dp, i.e. 100 = 100dp

3.28.3.24 thumbGridViewMode

```
int com.radaee.pdf.Global.thumbGridViewMode = 0 [static]
```

Thumb grid view's render mode, 0:full screen 1:justify center

3.28.3.25 thumbViewBgColor

```
int com.radaee.pdf.Global.thumbViewBgColor = 0x40CCCCCC [static]
```

Thumb view background color

3.28.3.26 thumbViewHeight

```
int com.radaee.pdf.Global.thumbViewHeight = 100 [static]
```

Thumb view height in dp, i.e. 100 = 100dp

3.28.3.27 tmp_path

```
String com.radaee.pdf.Global.tmp_path = null [static]
```

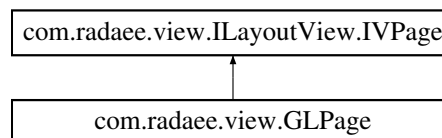
temp path, able after Init() invoked debug_mode, show or remove "Avail Mem" watermark save_thumb_↔ in_cache, save pdf first page in cache storage

The documentation for this class was generated from the following file:

- Global.java

3.29 com.radaee.view.GLPage Class Reference

Inheritance diagram for com.radaee.view.GLPage:



Public Member Functions

- **GLPage** ([Document](#) doc, int pageno)
- final void **gl_render** (GL10 gl10, [GLThread](#) thread)
- final void **gl_draw_curl** (GL10 gl10, [GLThread](#) thread, int def_text, int shadow_text, int type, int x, int y)
- final void **gl_draw** (GL10 gl10, [GLThread](#) thread, int def_text, int orgx, int orgy, int w, int h)
- final void **gl_draw2** (GL10 gl10, [GLThread](#) thread, int def_text, int orgx, int orgy, int w, int h)
- final void **gl_sync** (int orgx, int orgy, int w, int h)
- final void **gl_end** (GL10 gl10, [GLThread](#) thread)
- final void **gl_end_zoom** (GL10 gl10, [GLThread](#) thread)
- final int **GetPageNo** ()
- final float **ToPDFX** (float x, float scrollx)
- final float **ToPDFY** (float y, float scrolly)
- final float **ToDIBX** (float x)
- final float **ToDIBY** (float y)
- final int **GetVX** (float pdfx)
- final int **GetVY** (float pdfy)
- final float **GetScale** ()
- final float **ToPDFSize** (float val)
- final [Matrix](#) **CreateInvertMatrix** (float scrollx, float scrolly)
- [GLReflowCanvas](#) **Reflow** (int w, float scale, int gap)
- [Bitmap](#) **Reflow** (int w, float scale, boolean render_images)
- boolean **vFinished** ()

Protected Member Functions

- final void **gl_layout** (int x, int y, float scale)
- final void **gl_layout** (int w, int h)
- final void **gl_alloc** ()
- void **gl_set_dirty** ()
- final void **gl_zoom_start** (GL10 gl10, [GLThread](#) thread)
- final int **GetLeft** ()
- final int **GetTop** ()
- final int **GetRight** ()
- final int **GetBottom** ()
- final int **GetWidth** ()
- final int **GetHeight** ()
- final float **GetPDFX** (int vx)
- final float **GetPDFY** (int vy)

3.29.1 Member Function Documentation

3.29.1.1 CreateInvertMatrix()

```
final Matrix com.radaee.view.GLPage.CreateInvertMatrix (
    float scrollx,
    float scrolly )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.29.1.2 GetPageNo()

```
final int com.radaee.view.GLPage.GetPageNo ( )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.29.1.3 GetVX()

```
final int com.radaee.view.GLPage.GetVX (
    float pdfx )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.29.1.4 GetVY()

```
final int com.radaee.view.GLPage.GetVY (
    float pdfy )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.29.1.5 gl_draw2()

```
final void com.radaee.view.GLPage.gl_draw2 (
    GL10 gl10,
    GLThread thread,
    int def_text,
    int orgx,
    int orgy,
    int w,
    int h )
```

draw page with more cache.

Parameters

<i>gl10</i>	
<i>thread</i>	
<i>def_text</i>	
<i>orgx</i>	
<i>orgy</i>	
<i>w</i>	
<i>h</i>	

3.29.1.6 ToDIBX()

```
final float com.radaee.view.GLPage.ToDIBX (
    float x )
```

map x to DIB coordinate

Parameters

x	x position in PDF coordinate
---	------------------------------

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.29.1.7 ToDIBY()

```
final float com.radaee.view.GLPage.ToDIBY (
    float y )
```

map y to DIB coordinate

Parameters

y	y position in PDF coordinate
---	------------------------------

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.29.1.8 ToPDFSize()

```
final float com.radaee.view.GLPage.ToPDFSize (
    float val )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.29.1.9 ToPDFX()

```
final float com.radaee.view.GLPage.ToPDFX (
    float x,
    float scrollx )
```

map x position in view to PDF coordinate

Parameters

x	x position in view
scrollx	x scroll position

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.29.1.10 ToPDFY()

```
final float com.radaee.view.GLPage.ToPDFY (
    float y,
    float scrolly )
```

map y position in view to PDF coordinate

Parameters

<i>y</i>	y position in view
<i>scrolly</i>	y scroll position

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

The documentation for this class was generated from the following file:

- GLPage.java

3.30 com.radaee.view.GLReflowBlock Class Reference

Public Member Functions

- **GLReflowBlock** ([Page](#) page, int y, int w, int h, int gap)
- boolean **render_cancel** ()
- boolean **render_start** ()
- boolean **render** ()
- void **destroy** ()
- boolean **gl_in_range** (int y, int h)
- void **gl_draw** (GL10 gl10, int def_text, int vy, int vh)
- void **gl_close** (GL10 gl10)

Static Protected Member Functions

- static IntBuffer **create_buf** (int[] val)
- static ByteBuffer **create_buf** (byte[] val)

The documentation for this class was generated from the following file:

- GLReflowBlock.java

3.31 com.radaee.view.GLReflowCanvas Class Reference

Public Member Functions

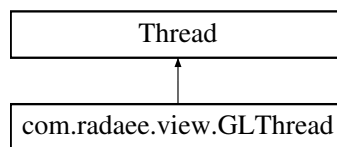
- **GLReflowCanvas** ([Document](#) doc, int pageno, float scale, int w, int cell_h, int gap)
- void **gl_draw** (GL10 gl10, [GLThread](#) thread, int def_text, int vy, int vh)
- void **gl_close** (GL10 gl10, [GLThread](#) thread)
- void **gl_destroy** ()
- int **getWidth** ()
- int **getHeight** ()

The documentation for this class was generated from the following file:

- GLReflowCanvas.java

3.32 com.radaee.view.GLThread Class Reference

Inheritance diagram for com.radaee.view.GLThread:



Public Member Functions

- void **run** ()
- void **render_start** ([GLBlock](#) blk)
- boolean **render_end** (GL10 gl10, [GLBlock](#) blk)
- void **start** ()
- void **set_handler** (Handler hand_gl)
- synchronized void **destroy** ()
- void **reflow_start** ([GLReflowBlock](#) blk)
- void **reflow_end** ([GLReflowBlock](#) blk)
- void **reflow_destroy_page** ([Page](#) page)

Protected Member Functions

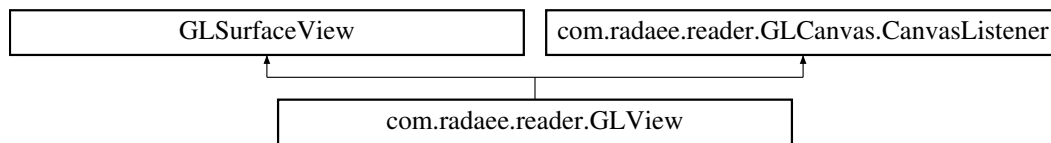
- void **find_start** ([VFinder](#) finder)

The documentation for this class was generated from the following file:

- GLThread.java

3.33 com.radaee.reader.GLView Class Reference

Inheritance diagram for com.radaee.reader.GLView:



Classes

- class **PDFGestureListener**
- class **PDFGLPageSet**
- class **TouchableRunnable**

Public Member Functions

- **GLView** (Context context)
- **GLView** (Context context, AttributeSet attrs)
- void **surfaceCreated** (SurfaceHolder holder)
- void **surfaceDestroyed** (SurfaceHolder holder)
- void **PDFCloseOnUI** ()
- void **PDFClose** ()
- void **setAnnotMenu** (UIAnnotMenu aMenu)
- void **PDFOpen** (Document doc, ILAYOUTVIEW.PDFLayoutListener listener, GLCanvas canvas, int page↔_gap)
- void **PDFSaveView** ()
- void **PDFRestoreView** ()
- int **PDFGetView** ()
- void **PDFSetView** (int view_mode)
- boolean **onTouchEvent** (MotionEvent event)
- void **drawLayer** (Canvas canvas)
- void **PDFSetInk** (int code)
- void **PDFSetPolygon** (int code)
- void **PDFSetPolyline** (int code)
- void **PDFSetRect** (int code)
- void **PDFSetEllipse** (int code)
- void **PDFSetSelect** ()
- void **PDFSetNote** (int code)
- void **PDFSetLine** (int code)
- void **PDFSetStamp** (int code)
- void **PDFSetEditbox** (int code)
- void **PDFCancelAnnot** ()
- void **PDFRemoveAnnot** ()
- void **PDFEndAnnot** ()
- void **PDFEditAnnot** ()
- void **PDFPerformAnnot** ()
- final void **PDFFindStart** (String key, boolean match_case, boolean whole_word)
- final void **PDFFind** (int dir)
- final void **PDFFindEnd** ()
- boolean **PDFSetSelMarkup** (int type)

- [Document](#) **PDFGetDoc** ()
- void **BundleSavePos** (Bundle bundle)
- void **BundleRestorePos** (Bundle bundle)
- void **PDFGotoPage** (int pageno)
- void **PDFScrolltoPage** (int pageno)
- void **PDFUndo** ()
- void **PDFRedo** ()
- void **setReadOnly** (boolean readonly)
- boolean **PDFCanSave** ()
- boolean **PDFSave** ()
- void **PDFSetBGColor** (int color)
- void **PDFUpdatePage** (int pageno)
- int **PDFGetCurrPage** ()
- float[] **toPDFRect** (float[] viewRect)
- final GLLayout.PDFPos **PDFGetPos** (int x, int y)
- void **PDFSetScale** (final float scale)

Static Protected Attributes

- static final int **STA_NONE** = 0
- static final int **STA_ZOOM** = 1
- static final int **STA_SELECT** = 2
- static final int **STA_INK** = 3
- static final int **STA_RECT** = 4
- static final int **STA_ELLIPSE** = 5
- static final int **STA_NOTE** = 6
- static final int **STA_LINE** = 7
- static final int **STA_STAMP** = 8
- static final int **STA_EDITBOX** = 9
- static final int **STA_POLYGON** = 10
- static final int **STA_POLYLINE** = 11
- static final int **STA_ANNOT** = 100

3.33.1 Member Function Documentation

3.33.1.1 drawLayer()

```
void com.radaee.reader.GLView.drawLayer (
    Canvas canvas )
```

Implements [com.radaee.reader.GLCanvas.CanvasListener](#).

3.33.1.2 surfaceCreated()

```
void com.radaee.reader.GLView.surfaceCreated (
    SurfaceHolder holder )
```

fired when resume.

Parameters

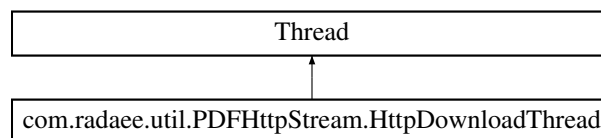
<i>holder</i>	SurfaceHolder object
---------------	----------------------

The documentation for this class was generated from the following file:

- GLView.java

3.34 com.radaee.util.PDFHttpStream.HttpDownloadThread Class Reference

Inheritance diagram for com.radaee.util.PDFHttpStream.HttpDownloadThread:



Public Member Functions

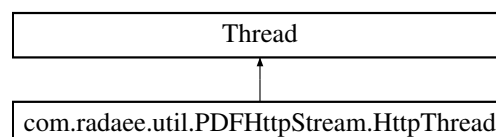
- void **start** ()
- void **run** ()
- synchronized void **destroy** ()

The documentation for this class was generated from the following file:

- PDFHttpStream.java

3.35 com.radaee.util.PDFHttpStream.HttpThread Class Reference

Inheritance diagram for com.radaee.util.PDFHttpStream.HttpThread:



Public Member Functions

- void **start** ()
- void **run** ()
- int **get_size** (PDFHttpStream stream)
- byte[] **read_range** (PDFHttpStream stream, int start, int len)
- synchronized void **destroy** ()

3.35.1 Detailed Description

Inner class.

developer should not use this.

The documentation for this class was generated from the following file:

- PDFHttpStream.java

3.36 com.radaee.pdf.HWriting Class Reference

Public Member Functions

- [HWriting](#) (int w, int h, float min_w, float max_w, int clr_r, int clr_g, int clr_b)
- void [Destroy](#) ()
- void [OnDown](#) (float x, float y)
- void [OnMove](#) (float x, float y)
- void [OnUp](#) (float x, float y)
- void [OnDraw](#) ([BMP](#) bmp)

Protected Member Functions

- void [finalize](#) () throws Throwable

Protected Attributes

- long [hand](#) = 0

3.36.1 Detailed Description

class for hand-writing ink.

not same to [Ink](#) class, this class has max line width and min line width.

so the line in [HWriting](#) will not in same width.

Author

Radaee

Version

1.1

3.36.2 Constructor & Destructor Documentation

3.36.2.1 HWriting()

```
com.radaee.pdf.HWriting.HWriting (
    int w,
    int h,
    float min_w,
    float max_w,
    int clr_r,
    int clr_g,
    int clr_b )
```

constructor for hand-writing.

Parameters

<i>w</i>	width of cache.
<i>h</i>	height of cache.
<i>min</i> $\leftrightarrow$ <i>_w</i>	min-width for ink width.
<i>max</i> $\leftrightarrow$ <i>_w</i>	max-width for ink width.
<i>clr_r</i>	r values of ink color [0-255]
<i>clr_g</i>	g values of ink color [0-255]
<i>clr_b</i>	b values of ink color [0-255]

3.36.3 Member Function Documentation

3.36.3.1 Destroy()

```
void com.radaee.pdf.HWriting.Destroy ( )
```

destroy and free memory.

3.36.3.2 OnDown()

```
void com.radaee.pdf.HWriting.OnDown (
    float x,
    float y )
```

call when click down

Parameters

<i>x</i>	x value of point in this object.
<i>y</i>	y value of point in this object.

3.36.3.3 OnDraw()

```
void com.radaee.pdf.HWriting.OnDraw (
    BMP bmp )
```

draw to locked bitmap handle.

Parameters

<i>bmp,obtained</i>	by Global.lockBitmap()
---------------------	------------------------

3.36.3.4 OnMove()

```
void com.radaee.pdf.HWriting.OnMove (
    float x,
    float y )
```

call when moving

Parameters

x	x value of point in this object.
y	y value of point in this object.

3.36.3.5 OnUp()

```
void com.radaee.pdf.HWriting.OnUp (
    float x,
    float y )
```

call when click up

Parameters

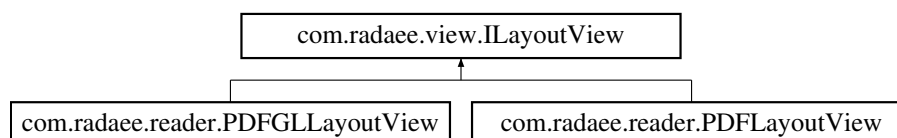
x	x value of point in this object.
y	y value of point in this object.

The documentation for this class was generated from the following file:

- HWriting.java

3.37 com.radaee.view.ILayoutView Interface Reference

Inheritance diagram for com.radaee.view.ILayoutView:



Classes

- interface [IVPage](#)
- interface [PDFLayoutListener](#)

Public Member Functions

- void [PDFOpen](#) ([Document](#) doc, [PDFLayoutListener](#) listener)
- void [PDFClose](#) ()
- void [PDFSetView](#) (int vmode)
- void [PDFSetInk](#) (int code)
- void [PDFSetPolygon](#) (int code)
- void [PDFSetPolyline](#) (int code)
- void [PDFSetRect](#) (int code)
- void [PDFSetEllipse](#) (int code)
- void [PDFSetSelect](#) ()
- void [PDFSetNote](#) (int code)
- void [PDFSetLine](#) (int code)
- void [PDFSetStamp](#) (int code)
- void [PDFSetEditbox](#) (int code)
- boolean [PDFSetAttachment](#) (String attachmentPath)
- void [PDFCancelAnnot](#) ()
- void [PDFRemoveAnnot](#) ()
- void [PDFEndAnnot](#) ()
- void [PDFEditAnnot](#) ()
- void [PDFPerformAnnot](#) ()
- void [PDFFindStart](#) (String key, boolean match_case, boolean whole_word)
- void [PDFFind](#) (int dir)
- void [PDFFindEnd](#) ()
- boolean [PDFSetSelMarkup](#) (int type)
- [Document](#) [PDFGetDoc](#) ()
- void [BundleSavePos](#) (Bundle bundle)
- void [BundleRestorePos](#) (Bundle bundle)
- void [PDFGotoPage](#) (int pageno)
- void [PDFScrolltoPage](#) (int pageno)
- void [PDFUndo](#) ()
- void [PDFRedo](#) ()
- boolean [PDFCanSave](#) ()
- boolean [PDFSave](#) ()
- void [PDFUpdatePage](#) (int pageno)
- int [GetScreenX](#) (float pdfX, int pageno)
- int [GetScreenY](#) (float pdfY, int pageno)

3.37.1 Member Function Documentation

3.37.1.1 PDFClose()

`void com.radaee.view.ILayoutView.PDFClose ( )`

close reader.

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.2 PDFOpen()

```
void com.radaee.view.ILayoutView.PDFOpen (
    Document doc,
    PDFLayoutListener listener )
```

attach PDF document object to reader. and initialize reader

Parameters

<i>doc</i>	PDF Document object
<i>listener</i>	callback listener.

3.37.1.3 PDFSetEditbox()

```
void com.radaee.view.ILayoutView.PDFSetEditbox (
    int code )
```

set editbox status.

Parameters

<i>code</i>	0: set to Editbox status 1: end and confirm Editbox status 2: cancel Editbox status
-------------	---

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.4 PDFSetEllipse()

```
void com.radaee.view.ILayoutView.PDFSetEllipse (
    int code )
```

set Ellipse status.

Parameters

<i>code</i>	0: set to Ellipse status 1: end and confirm Ellipse status 2: cancel Ellipse status
-------------	---

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.5 PDFSetInk()

```
void com.radaee.view.ILayoutView.PDFSetInk (
    int code )
```

set Ink status.

Parameters

<i>code</i>	
	0: set to Ink status
	1: end and confirm Ink status
	2: cancel Ink status

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.6 PDFSetLine()

```
void com.radaee.view.ILayoutView.PDFSetLine (
    int code )
```

set Line status.

Parameters

<i>code</i>	
	0: set to Line status
	1: end and confirm Line status
	2: cancel Line status

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.7 PDFSetNote()

```
void com.radaee.view.ILayoutView.PDFSetNote (
    int code )
```

set Note status.

Parameters

<i>code</i>	
	0: set to Note status
	1: end and confirm Note status
	2: cancel Note status

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.8 PDFSetRect()

```
void com.radaee.view.ILayoutView.PDFSetRect (
    int code )
```

set Rect status.

Parameters

<i>code</i>	
0:	set to Rect status
1:	end and confirm Rect status
2:	cancel Rect status

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.9 PDFSetSelect()

```
void com.radaee.view.ILayoutView.PDFSetSelect ( )
```

set select status or end status.

if current status is select status, set status to none.

if current status is none status, set status to select.

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.10 PDFSetStamp()

```
void com.radaee.view.ILayoutView.PDFSetStamp (
    int code )
```

set Stamp status.

Parameters

<i>code</i>	
0:	set to Stamp status
1:	end and confirm Stamp status
2:	cancel Stamp status

Implemented in [com.radaee.reader.PDFGLLayoutView](#), and [com.radaee.reader.PDFLayoutView](#).

3.37.1.11 PDFSetView()

```
void com.radaee.view.ILayoutView.PDFSetView (
    int vmode )
```

set view mode, it sam as Global.def_mode.

Parameters

<i>vmode</i>	view mode 0:vertical 1:horizon 2:curl effect(opengl only) 3:single 4:SingleEx 5:Reflow(opengl only) 6:show 2 page as 1 page in land scape mode
--------------	--

Implemented in [com.radaee.reader.PDFLayoutView](#), and [com.radaee.reader.PDFGLLayoutView](#).

The documentation for this interface was generated from the following file:

- ILayoutView.java

3.38 com.radaee.annotui.UIAnnotMenu.IMemnuCallback Interface Reference

Public Member Functions

- void **onUpdate** ()
- void **onRemove** ()
- void **onPerform** ()
- void **onCancel** ()

The documentation for this interface was generated from the following file:

- UIAnnotMenu.java

3.39 com.radaee.pdf.Ink Class Reference

Public Member Functions

- [Ink](#) (float line_w)
- final void [Destroy](#) ()
- final void [OnDown](#) (float x, float y)
- final void [OnMove](#) (float x, float y)
- final void [OnUp](#) (float x, float y)
- void [OnDraw](#) (Canvas canvas)
- void **OnDraw** (Canvas canvas, float scrollx, float scrolly)

Protected Member Functions

- void **finalize** () throws Throwable

Protected Attributes

- long **hand** = 0
- int **color** = 0
- float **width** = 0

3.39.1 Detailed Description

class for ink.

Author

radaee

3.39.2 Constructor & Destructor Documentation

3.39.2.1 Ink()

```
com.radaee.pdf.Ink.Ink (
    float line_w )
```

constructor for ink.

Parameters

<i>line_w</i>	width of line.
---------------	----------------

3.39.3 Member Function Documentation

3.39.3.1 Destroy()

```
final void com.radaee.pdf.Ink.Destroy ( )
```

destroy and free memory.

3.39.3.2 OnDown()

```
final void com.radaee.pdf.Ink.OnDown (
    float x,
    float y )
```

call when click down

Parameters

<i>x</i>	x value of point in this object.
<i>y</i>	y value of point in this object.

3.39.3.3 OnDraw()

```
void com.radaee.pdf.Ink.OnDraw (
    Canvas canvas )
```

draw to canvas

Parameters

<i>canvas</i>	Canvas to draw
---------------	----------------

3.39.3.4 OnMove()

```
final void com.radaee.pdf.Ink.OnMove (
    float x,
    float y )
```

call when moving

Parameters

<i>x</i>	x value of point in this object.
<i>y</i>	y value of point in this object.

3.39.3.5 OnUp()

```
final void com.radaee.pdf.Ink.OnUp (
    float x,
    float y )
```

call when click up

Parameters

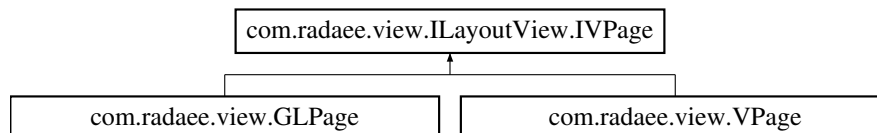
<i>x</i>	x value of point in this object.
<i>y</i>	y value of point in this object.

The documentation for this class was generated from the following file:

- `Ink.java`

3.40 `com.radaee.view.ILayoutView.IVPage` Interface Reference

Inheritance diagram for `com.radaee.view.ILayoutView.IVPage`:



Public Member Functions

- `int GetPageNo ()`
- `int GetVX (float pdfx)`
- `int GetVY (float pdfy)`
- `float ToPDFX (float x, float scrollx)`
- `float ToPDFY (float y, float scrolly)`
- `float ToDIBX (float x)`
- `float ToDIBY (float y)`
- `float ToPDFSize (float val)`
- `Matrix CreateInvertMatrix (float scrollx, float scrolly)`

3.40.1 Member Function Documentation

3.40.1.1 `CreateInvertMatrix()`

```

Matrix com.radaee.view.ILayoutView.IVPage.CreateInvertMatrix (
    float scrollx,
    float scrolly )
  
```

Implemented in `com.radaee.view.VPage`.

3.40.1.2 ToDIBX()

```
float com.radaee.view.ILayoutView.IVPage.ToDIBX (  
    float x )
```

Implemented in [com.radaee.view.GLPage](#), and [com.radaee.view.VPage](#).

3.40.1.3 ToDIBY()

```
float com.radaee.view.ILayoutView.IVPage.ToDIBY (  
    float y )
```

Implemented in [com.radaee.view.GLPage](#), and [com.radaee.view.VPage](#).

3.40.1.4 ToPDFX()

```
float com.radaee.view.ILayoutView.IVPage.ToPDFX (  
    float x,  
    float scrollx )
```

Implemented in [com.radaee.view.GLPage](#), and [com.radaee.view.VPage](#).

3.40.1.5 ToPDFY()

```
float com.radaee.view.ILayoutView.IVPage.ToPDFY (  
    float y,  
    float scrolly )
```

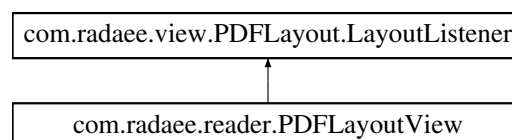
Implemented in [com.radaee.view.GLPage](#), and [com.radaee.view.VPage](#).

The documentation for this interface was generated from the following file:

- ILayoutView.java

3.41 com.radaee.view.PDFLayout.LayoutListener Interface Reference

Inheritance diagram for com.radaee.view.PDFLayout.LayoutListener:



Public Member Functions

- void [OnPageChanged](#) (int pageno)
- void **OnPageRendered** (int pageno)
- void **OnCacheRendered** (int pageno)
- void [OnFound](#) (boolean found)
- void [OnPageDisplayed](#) (Canvas canvas, [VPage](#) vpage)
- void **OnTimer** ()

3.41.1 Detailed Description

call-back listener classv

Author

radaee

3.41.2 Member Function Documentation

3.41.2.1 OnFound()

```
void com.radaee.view.PDFLayout.LayoutListener.OnFound (
    boolean found )
```

fired when searching end.

Parameters

<i>found</i>	true if found, otherwise pass false.
--------------	--------------------------------------

Implemented in [com.radaee.reader.PDFLayoutView](#).

3.41.2.2 OnPageChanged()

```
void com.radaee.view.PDFLayout.LayoutListener.OnPageChanged (
    int pageno )
```

fired when pageno changed.

Parameters

<i>pageno</i>	pageno.
---------------	---------

Implemented in [com.radaee.reader.PDFLayoutView](#).

3.41.2.3 OnPageDisplayed()

```
void com.radaee.view.PDFLayout.LayoutListener.OnPageDisplayed (
    Canvas canvas,
    VPage vpage )
```

fired when a page displayed.

Parameters

<i>canvas</i>	canvas to draw.
<i>vpage</i>	VPage object

Implemented in [com.radaee.reader.PDFLayoutView](#).

The documentation for this interface was generated from the following file:

- PDFLayout.java

3.42 com.radaee.pdf.Matrix Class Reference

Public Member Functions

- [Matrix](#) (float xx, float yx, float xy, float yy, float x0, float y0)
- [Matrix](#) (float sx, float sy, float x0, float y0)
- final void **Invert** ()
- final void **TransformPath** ([Path](#) path)
- final void **TransformInk** ([Ink](#) ink)
- final void **TransformRect** (float[] rect)
- final void **TransformPoint** (float[] point)
- final void [Destroy](#) ()

Protected Member Functions

- **Matrix** (long handle)
- void **finalize** () throws Throwable

Protected Attributes

- long **hand** = 0

3.42.1 Detailed Description

class for PDF [Matrix](#).

Author

Radaee

Version

1.1

3.42.2 Constructor & Destructor Documentation

3.42.2.1 `Matrix()` [1/2]

```
com.radaee.pdf.Matrix.Matrix (
    float xx,
    float yx,
    float xy,
    float yy,
    float x0,
    float y0 )
```

constructor for full values.

transform formula like:

$$\text{new_x} = (xx * x + xy * y) + x0;$$
$$\text{new_y} = (yx * x + yy * y) + y0;$$

for composed with rotate and scale, values like:

$$xx = \text{scalex} * \cos(a);$$
$$yx = \text{scaley} * \sin(a);$$
$$xy = \text{scalex} * \sin(-a);$$
$$yy = \text{scaley} * \cos(-a);$$

where a is rotate angle in radian.

Parameters

<i>xx</i>	
<i>yx</i>	
<i>xy</i>	
<i>yy</i>	
<i>x0</i>	offset add to x
<i>y0</i>	offset add to y

3.42.2.2 Matrix() [2/2]

```
com.radaee.pdf.Matrix.Matrix (
    float sx,
    float sy,
    float x0,
    float y0 )
```

constructor for scaled values.

```
xx = sx;
yx = 0;
xy = 0;
yx = sy;
transform formula like:
new_x = (sx * x) + x0;
new_y = (sy * y) + y0;
because PDF using math coordinate system. (0,0) at left-bottom
and Bitmap is in screen coordinate. (0,0) at left-top
so, Matrix need to map y as inverted. and matrix mostly like:
sx = scale, sy = -scale, x0 = 0, y0 = scale * page_height
where page_height getting from Document.GetPageHeight(pageNo);
```

Parameters

<i>sx</i>	
<i>sy</i>	
<i>x0</i>	offset add to x
<i>y0</i>	offset add to y

3.42.3 Member Function Documentation

3.42.3.1 Destroy()

```
final void com.radaee.pdf.Matrix.Destroy ( )
```

destroy and free memory.

The documentation for this class was generated from the following file:

- Matrix.java

3.43 com.radaee.pdf.adv.Obj Class Reference

Public Member Functions

- **Obj** (long handle)
- long **get_hand** ()

- final int [DictGetItemCount](#) ()
- final String [DictGetItemTag](#) (int index)
- final [Obj](#) [DictGetItem](#) (int index)
- final [Obj](#) [DictGetItem](#) (String tag)
- final void [DictSetItem](#) (String tag)
- final void [DictRemoveItem](#) (String tag)
- final int [ArrayGetItemCount](#) ()
- final [Obj](#) [ArrayGetItem](#) (int index)
- final void [ArrayAppendItem](#) ()
- final void [ArrayInsertItem](#) (int index)
- final void [ArrayRemoveItem](#) (int index)
- final void [ArrayClear](#) ()
- final boolean [GetBoolean](#) ()
- final void [SetBoolean](#) (boolean v)
- final int [GetInt](#) ()
- final void [SetInt](#) (int v)
- final float [GetReal](#) ()
- final void [SetReal](#) (float v)
- final String [GetName](#) ()
- final void [SetName](#) (String v)
- final String [GetAsciiString](#) ()
- final String [GetTextString](#) ()
- final byte[] [GetHexString](#) ()
- final void [SetAsciiString](#) (String v)
- final void [SetTextString](#) (String v)
- final void [SetHexString](#) (byte[] v)
- final [Ref](#) [GetReference](#) ()
- final void [SetReference](#) ([Ref](#) v)
- final void [SetDict](#) ()
- final void [SetArray](#) ()
- final int [GetType](#) ()

Protected Attributes

- long **hand**

3.43.1 Detailed Description

Created by radaee on 2015/3/30.

3.43.2 Member Function Documentation

3.43.2.1 [ArrayAppendItem\(\)](#)

```
final void com.radaee.pdf.adv.Obj.ArrayAppendItem ( )
```

add an empty object to tail of array.

u can use [ArrayGetItem\(ArrayGetItemCount\(\) - 1\)](#) to get Object after [ArrayAppendItem\(\)](#)

3.43.2.2 ArrayClear()

```
final void com.radaee.pdf.adv.Obj.ArrayClear ( )
```

remove all items from array.

3.43.2.3 ArrayGetItem()

```
final Obj com.radaee.pdf.adv.Obj.ArrayGetItem (
    int index )
```

get item of array by index.

Parameters

<i>index</i>	0 based index.
--------------	----------------

Returns

PDF object data.

3.43.2.4 ArrayGetItemCount()

```
final int com.radaee.pdf.adv.Obj.ArrayGetItemCount ( )
```

get item count of array

Returns

count.

3.43.2.5 ArrayInsertItem()

```
final void com.radaee.pdf.adv.Obj.ArrayInsertItem (
    int index )
```

insert an empty object to array by position.

u can use ArrayGetItem(index) to get Object after [ArrayInsertItem\(\)](#)

Parameters

<i>index</i>	0 based index
--------------	---------------

3.43.2.6 ArrayRemoveItem()

```
final void com.radaee.pdf.adv.Obj.ArrayRemoveItem (
    int index )
```

remove an item from array

Parameters

<i>index</i>	0 based index.
--------------	----------------

3.43.2.7 DictGetItem() [1/2]

```
final Obj com.radaee.pdf.adv.Obj.DictGetItem (
    int index )
```

get item of dictionary or stream by index

Parameters

<i>index</i>	o based index value.
--------------	----------------------

Returns

PDF object data.

3.43.2.8 DictGetItem() [2/2]

```
final Obj com.radaee.pdf.adv.Obj.DictGetItem (
    String tag )
```

get item of dictionary or stream by tag

Parameters

<i>tag</i>	tag.same as DictSetItem
------------	-------------------------

Returns

PDF object data.

3.43.2.9 DictGetItemCount()

```
final int com.radaee.pdf.adv.Obj.DictGetItemCount ( )
```

get item count of dictionary or stream obj

Returns

count.

3.43.2.10 DictGetItemTag()

```
final String com.radaee.pdf.adv.Obj.DictGetItemTag (
    int index )
```

get item name of dictionary or stream by index

Parameters

<i>index</i>	0 based index value.
--------------	----------------------

Returns

tag of item.

3.43.2.11 DictRemoveItem()

```
final void com.radaee.pdf.adv.Obj.DictRemoveItem (
    String tag )
```

remove item by tag

Parameters

<i>tag</i>	tag of item
------------	-------------

3.43.2.12 DictSetItem()

```
final void com.radaee.pdf.adv.Obj.DictSetItem (
    String tag )
```

set empty object to item by tag.

u can use DictGetItem(key) to get object, after DictSetItem.

Parameters

<i>tag</i>	tag same as DictGetItem
------------	-------------------------

3.43.2.13 GetAsciiString()

```
final String com.radaee.pdf.adv.Obj.GetAsciiString ( )
```

get string value from object.

Returns

ascii string value.

3.43.2.14 GetBoolean()

```
final boolean com.radaee.pdf.adv.Obj.GetBoolean ( )
```

get boolean value from object.

Returns

boolean value.

3.43.2.15 GetHexString()

```
final byte[] com.radaee.pdf.adv.Obj.GetHexString ( )
```

get string value from object.

Returns

binary string value.

3.43.2.16 GetInt()

```
final int com.radaee.pdf.adv.Obj.GetInt ( )
```

get int value from object.

Returns

int value.

3.43.2.17 GetName()

```
final String com.radaee.pdf.adv.Obj.GetName ( )
```

get name value from object.

Returns

name value.

3.43.2.18 GetReal()

```
final float com.radaee.pdf.adv.Obj.GetReal ( )
```

get float value from object.

Returns

float value.

3.43.2.19 GetReference()

```
final Ref com.radaee.pdf.adv.Obj.GetReference ( )
```

get cross reference from object.

Returns

cross reference item.

3.43.2.20 GetTextString()

```
final String com.radaee.pdf.adv.Obj.GetTextString ( )
```

get string value from object.

Returns

Unicode string value.

3.43.2.21 GetType()

```
final int com.radaee.pdf.adv.Obj.GetType ( )
```

get type of object

Returns

object type as following: null = 0,
boolean = 1,
int = 2,
real = 3,
string = 4,
name = 5,
array = 6,
dictionary = 7,
reference = 8,
stream = 9,
others unknown.,

3.43.2.22 SetArray()

```
final void com.radaee.pdf.adv.Obj.SetArray ( )
```

set object type to array. and empty array created.

3.43.2.23 SetAsciiString()

```
final void com.radaee.pdf.adv.Obj.SetAsciiString (  
    String v )
```

set ascii string value to object, and set object type to string.

Parameters

<i>v</i>	ascii string value
----------	--------------------

3.43.2.24 SetBoolean()

```
final void com.radaee.pdf.adv.Obj.SetBoolean (
    boolean v )
```

set boolean value to object, and set object type to boolean.

Parameters

<i>v</i>	boolean value
----------	---------------

3.43.2.25 SetDict()

```
final void com.radaee.pdf.adv.Obj.SetDict ( )
```

set object type to dictionary. and empty dictionary data created.

3.43.2.26 SetHexString()

```
final void com.radaee.pdf.adv.Obj.SetHexString (
    byte[] v )
```

set binary string value to object, and set object type to string.

Parameters

<i>v</i>	binary string value
----------	---------------------

3.43.2.27 SetInt()

```
final void com.radaee.pdf.adv.Obj.SetInt (
    int v )
```

set int value to object, and set object type to int.

Parameters

<i>v</i>	int value
----------	-----------

3.43.2.28 SetName()

```
final void com.radaee.pdf.adv.Obj.SetName (  
    String v )
```

set name value to object, and set object type to name.

Parameters

<i>v</i>	name value
----------	------------

3.43.2.29 SetReal()

```
final void com.radaee.pdf.adv.Obj.SetReal (  
    float v )
```

set float value to object, and set object type to float.

Parameters

<i>v</i>	float value
----------	-------------

3.43.2.30 SetReference()

```
final void com.radaee.pdf.adv.Obj.SetReference (  
    Ref v )
```

set cross reference to object, and set object type to reference.

Parameters

<i>v</i>	cross reference
----------	-----------------

3.43.2.31 SetTextString()

```
final void com.radaee.pdf.adv.Obj.SetTextString (
    String v )
```

set unicode string value to object, and set object type to string.

Parameters

v	unicode string value
---	----------------------

The documentation for this class was generated from the following file:

- Obj.java

3.44 com.radaee.util.RDFilesView.OnFilesListener Interface Reference

Public Member Functions

- void **OnItemClick** ([RDFilesItem](#) item, int idx)
- void **OnItemMore** ([RDFilesItem](#) item, int idx)
- void **OnItemAdded** ()

The documentation for this interface was generated from the following file:

- RDFilesView.java

3.45 com.radaee.util.RDGridView.RDGridAdt.OnGridListener Interface Reference

Public Member Functions

- void **OnItemClick** ([RDGridItem](#) item)
- void **OnItemMore** ([RDGridItem](#) item)
- void **OnPathChanged** (String path)

The documentation for this interface was generated from the following file:

- RDGridView.java

3.46 com.radaee.util.RDRecentView.OnRecentListener Interface Reference

Public Member Functions

- void **OnItemClick** ([RDRecentItem](#) item, int idx)
- void **OnItemMore** ([RDRecentItem](#) item, int idx)

The documentation for this interface was generated from the following file:

- RDRecentView.java

3.47 com.radaee.pdf.Document.Outline Class Reference

Public Member Functions

- String [GetTitle](#) ()
- boolean [SetTitle](#) (String title)
- [Outline](#) [GetNext](#) ()
- [Outline](#) [GetChild](#) ()
- int [GetDest](#) ()
- String [GetURI](#) ()
- String [GetFileLink](#) ()
- boolean [AddNext](#) (String label, int pageno, float top)
- boolean [AddChild](#) (String label, int pageno, float top)
- boolean [RemoveFromDoc](#) ()

Protected Attributes

- long **hand**

3.47.1 Member Function Documentation

3.47.1.1 AddChild()

```
boolean com.radaee.pdf.Document.Outline.AddChild (  
    String label,  
    int pageno,  
    float top )
```

insert outline as first child of this [Outline](#).
a premium license is required for this method.

Parameters

<i>label</i>	label of new outline.
<i>pageno</i>	0 based page NO.
<i>top</i>	y in PDF coordinate.

Returns

true or false.

3.47.1.2 AddNext()

```
boolean com.radaee.pdf.Document.Outline.AddNext (
    String label,
    int pageno,
    float top )
```

insert outline after of this [Outline](#).
a premium license is required for this method.

Parameters

<i>label</i>	label of new outline.
<i>pageno</i>	0 based page NO.
<i>top</i>	y in PDF coordinate.

Returns

true of false.

3.47.1.3 GetChild()

```
Outline com.radaee.pdf.Document.Outline.GetChild ( )
```

get first child

Returns

3.47.1.4 GetDest()

```
int com.radaee.pdf.Document.Outline.GetDest ( )
```

get jumping page NO.

Returns

0 based page NO.

3.47.1.5 GetFileLink()

```
String com.radaee.pdf.Document.Outline.GetFileLink ( )
```

get file link path of [Outline](#)

Returns

file link path string or null.

3.47.1.6 GetNext()

```
Outline com.radaee.pdf.Document.Outline.GetNext ( )
```

get next

Returns

3.47.1.7 GetTitle()

```
String com.radaee.pdf.Document.Outline.GetTitle ( )
```

get label of [Outline](#)

Returns

title string

3.47.1.8 GetURI()

```
String com.radaee.pdf.Document.Outline.GetURI ( )
```

get url string of [Outline](#)

Returns

url string or null.

3.47.1.9 RemoveFromDoc()

```
boolean com.radaee.pdf.Document.Outline.RemoveFromDoc ( )
```

remove this [Outline](#), and all children of this [Outline](#).
this method connect previous [Outline](#) and next [Outline](#).
a premium license is required for this method.

Returns

true or false.

3.47.1.10 SetTitle()

```
boolean com.radaee.pdf.Document.Outline.SetTitle (
    String title )
```

set label of [Outline](#).
a premium license is required for this method.

Parameters

<i>title</i>	title to set
--------------	--------------

Returns

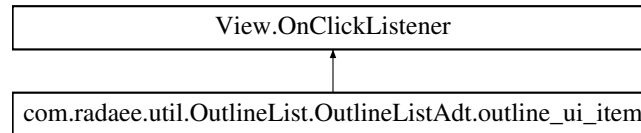
true or false.

The documentation for this class was generated from the following file:

- Document.java

3.48 com.radaee.util.OutlineList.OutlineListAdt.outline_ui_item Class Reference

Inheritance diagram for com.radaee.util.OutlineList.OutlineListAdt.outline_ui_item:



Public Member Functions

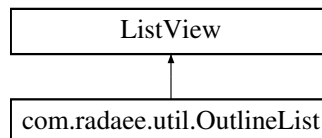
- int **GetPageNO** ()
- void **onClick** (View view)

The documentation for this class was generated from the following file:

- OutlineList.java

3.49 com.radaee.util.OutlineList Class Reference

Inheritance diagram for com.radaee.util.OutlineList:



Classes

- class **OutlineListAdt**

Public Member Functions

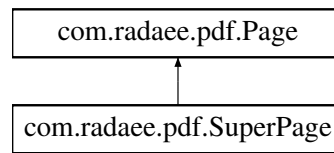
- **OutlineList** (Context context, AttributeSet attrs)
- void **SetOutlines** ([Document](#) doc)
- OutlineListAdt.outline_ui_item **GetItem** (int pos)

The documentation for this class was generated from the following file:

- OutlineList.java

3.50 com.radaee.pdf.Page Class Reference

Inheritance diagram for com.radaee.pdf.Page:



Classes

- class **Annotation**
- class [Finder](#)

Public Member Functions

- final [Ref](#) [Advance_GetRef](#) ()
- final void [Advance_Reload](#) ()
- final float[] [GetCropBox](#) ()
- final float[] [GetMediaBox](#) ()
- final boolean **AddAnnot** (long ref)
- final boolean **AddAnnot** (long ref, int index)
- int [Sign](#) (Document.DocForm form, float[] rect, String cert_file, String pswd, String name, String reason, String location, String contact)
- void [Close](#) ()
- final void [RenderPrepare](#) (DIB dib)
- final void [RenderPrepare](#) (Bitmap bmp)
- final boolean [Render](#) (DIB dib, [Matrix](#) mat)
- final boolean [RenderToBmp](#) (Bitmap bitmap, [Matrix](#) mat)
- final boolean [RenderToBuf](#) (int[] data, int w, int h, [Matrix](#) mat)
- final boolean [Render_Normal](#) (DIB dib, [Matrix](#) mat)
- final void [RenderCancel](#) ()
- final boolean [RenderThumb](#) (Bitmap bmp)
- final boolean **RenderThumbToDIB** (DIB dib)
- final boolean [RenderThumbToBuf](#) (int[]data, int w, int h)
- final boolean [RenderIsFinished](#) ()
- final void [ObjsStart](#) ()
- final String [ObjsGetString](#) (int from, int to)
- final int [ObjsAlignWord](#) (int from, int dir)
- final void [ObjsGetCharRect](#) (int index, float[]vals)
- String [ObjsGetCharFontName](#) (int index)
- final int [ObjsGetCharCount](#) ()
- final int [ObjsGetCharIndex](#) (float[] pt)
- [Finder](#) [FindOpen](#) (String str, boolean match_case, boolean whole_word)
- [Finder](#) [FindOpen](#) (String str, boolean match_case, boolean whole_word, boolean skip_blank)
- final int [GetRotate](#) ()
- final int [GetAnnotCount](#) ()
- Annotation [GetAnnot](#) (int index)
- Annotation [GetAnnotFromPoint](#) (float x, float y)
- Annotation [GetAnnotByName](#) (String name)
- final boolean [AddAnnotGoto](#) (float[] rect, int pageno, float top)

- final boolean [AddAnnotURI](#) (float[] rect, String uri)
- final boolean [AddAnnotStamp](#) (float[] rect, int icon)
- final boolean [AddAnnotInk](#) ([Matrix](#) mat, [Ink](#) ink, float orgx, float orgy)
- final boolean [AddAnnotHWriting](#) ([Matrix](#) mat, [HWriting](#) hwriting, float orgx, float orgy)
- final boolean [AddAnnotGlyph](#) ([Matrix](#) mat, [Path](#) path, int color, boolean winding)
- final boolean [AddAnnotRect](#) ([Matrix](#) mat, float[] rect, float width, int color, int fill_color)
- final boolean [AddAnnotLine](#) ([Matrix](#) mat, float[] pt1, float[] pt2, int style1, int style2, float width, int color, int fill_color)
- final boolean [AddAnnotEllipse](#) ([Matrix](#) mat, float[] rect, float width, int color, int fill_color)
- final boolean [AddAnnotPopup](#) (Annotation parent, float[] rect, boolean open)
- boolean [AddAnnotMarkup](#) ([Matrix](#) mat, float[] rects, int type)
- final boolean [AddAnnotInk](#) ([Ink](#) ink)
- final boolean [AddAnnotLine](#) (float[] pt1, float[] pt2, int style1, int style2, float width, int color, int icolor)
- final boolean [AddAnnotRect](#) (float[] rect, float width, int color, int fill_color)
- final boolean [AddAnnotEllipse](#) (float[] rect, float width, int color, int fill_color)
- final boolean [AddAnnotEditbox](#) (float[] rect, int line_clr, float line_w, int fill_clr, float tsize, int text_clr)
- final boolean [AddAnnotPolygon](#) ([Path](#) path, int color, int fill_color, float width)
- final boolean [AddAnnotPolyline](#) ([Path](#) path, int style1, int style2, int color, int fill_color, float width)
- boolean [AddAnnotMarkup](#) (int cindex1, int cindex2, int type)
- final boolean [AddAnnotBitmap](#) ([DocImage](#) image, float[] rect)
- final boolean [AddAnnotAttachment](#) (String path, int icon, float[] rect)
- final boolean [AddAnnotRichMedia](#) (String path_player, String path_content, int type, [DocImage](#) image, float[] rect)
- final boolean [AddAnnotText](#) (float[] pt)
- final boolean [AddAnnotEditbox](#) ([Matrix](#) mat, float[] rect, int line_clr, float line_w, int fill_clr, int text_clr, float tsize)
- final float [ReflowStart](#) (float width, float scale, boolean enable_images)
- final boolean [Reflow](#) ([DIB](#) dib, float orgx, float orgy)
- final boolean [ReflowToBmp](#) (Bitmap bitmap, float orgx, float orgy)
- final int [ReflowGetParaCount](#) ()
- final int [ReflowGetCharCount](#) (int iparagraph)
- final float [ReflowGetCharWidth](#) (int iparagraph, int ichar)
- final float [ReflowGetCharHeight](#) (int iparagraph, int ichar)
- final int [ReflowGetCharColor](#) (int iparagraph, int ichar)
- final int [ReflowGetCharUnicode](#) (int iparagraph, int ichar)
- final String [ReflowGetCharFont](#) (int iparagraph, int ichar)
- final void [ReflowGetCharRect](#) (int iparagraph, int ichar, float[] rect)
- String [ReflowGetText](#) (int iparagraph1, int ichar1, int iparagraph2, int ichar2)
- [ResFont](#) [AddResFont](#) ([DocFont](#) font)
- [ResImage](#) [AddResImage](#) ([DocImage](#) image)
- [ResGState](#) [AddResGState](#) ([DocGState](#) gstate)
- [ResForm](#) [AddResForm](#) ([DocForm](#) form)
- boolean [AddContent](#) ([PageContent](#) content, boolean flush)
- boolean [CopyAnnot](#) (Annotation annot, float[] rect)
- boolean [FlatAnnots](#) ()
- boolean [ImportAnnot](#) (float[] rect, byte[] data)

Protected Member Functions

- void [finalize](#) () throws Throwable

Protected Attributes

- long **hand** = 0
- [Document](#) **m_doc**

3.50.1 Detailed Description

class for PDF [Page](#).

Author

Radaee

Version

1.1

3.50.2 Member Function Documentation

3.50.2.1 AddAnnotAttachment()

```
final boolean com.radaee.pdf.Page.AddAnnotAttachment (
    String path,
    int icon,
    float[] rect )
```

add a file as an attachment to page.

you should re-render page to display modified data.

this can be invoked after ObjsStart or Render or RenderToBmp.

this method require professional or premium license, and [Document.SetCache](#) invoked.

Parameters

<i>path</i>	absolute path name to the file.
<i>icon</i>	icon display to the page. values as: 0: PushPin 1: Graph 2: Paperclip 3: Tag
<i>rect</i>	4 elements: left, top, right, bottom in PDF coordinate system.

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.2 AddAnnotBitmap()

```
final boolean com.radaee.pdf.Page.AddAnnotBitmap (
    DocImage image,
    float[] rect )
```

add a bitmap object as an annotation to page.
 you should re-render page to display modified data.
 this can be invoked after ObjsStart or Render or RenderToBmp.
 this method require professional or premium license, and [Document.SetCache\(\)](#) invoked.

Parameters

<i>image</i>	DocImage object return from Document.NewImage*() ;
<i>rect</i>	4 elements: left, top, right, bottom in PDF coordinate system.

Returns

true or false.
 the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.3 AddAnnotEditbox() [1/2]

```
final boolean com.radaee.pdf.Page.AddAnnotEditbox (
    float[] rect,
    int line_clr,
    float line_w,
    int fill_clr,
    float tsize,
    int text_clr )
```

add an edit-box on page.
 the font of edit box is set by Global.setTextFont in Global.Init().
 this can be invoked after ObjsStart or Render or RenderToBmp.
 this method require premium license.

Parameters

<i>rect</i>	4 elements: left, top, right, bottom in PDF coordinate system.
<i>line_clr</i>	color of border line, formatted as 0xAARRGGBB.
<i>line_w</i>	width of border line.
<i>fill_clr</i>	color of background, formatted as 0xAARRGGBB. AA must same to line_clr AA, or 0 means no fill color.
<i>tsize</i>	text size in PDF coordinate system.
<i>text_clr</i>	text color, formatted as 0xAARRGGBB. AA must same to line_clr AA

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.4 AddAnnotEditbox() [2/2]

```
final boolean com.radaee.pdf.Page.AddAnnotEditbox (
    Matrix mat,
    float[] rect,
    int line_clr,
    float line_w,
    int fill_clr,
    int text_clr,
    float tsize )
```

add an edit-box on page.

the font of edit box is set by Global.setTextFont in Global.Init().

this can be invoked after ObjsStart or Render or RenderToBmp.

this method require premium license.

Parameters

<i>mat</i>	Matrix object that passed to Render or RenderToBmp function.
<i>rect</i>	4 elements: left, top, right, bottom in PDF coordinate system.
<i>line_clr</i>	color of border line, formated as 0xAARRGGBB.
<i>line_w</i>	width of border line.
<i>fill_clr</i>	color of background, formated as 0xAARRGGBB. AA must same to line_clr AA, or 0 means no fill color.
<i>tsize</i>	text size in DIB coordinate system.
<i>text_clr</i>	text color, formated as 0xAARRGGBB. AA must same to line_clr AA

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.5 AddAnnotEllipse() [1/2]

```
final boolean com.radaee.pdf.Page.AddAnnotEllipse (
    float[] rect,
    float width,
    int color,
    int fill_color )
```

add ellipse to page.
you should re-render page to display modified data.
this can be invoked after ObjStart or Render or RenderToBmp.
this method require professional or premium license

Parameters

<i>rect</i>	4 elements for left, top, right, bottom in PDF coordinate system
<i>width</i>	line width in PDF coordinate
<i>color</i>	ellipse color, formatted as 0xAARRGGBB
<i>fill_color</i>	fill color in ellipse, formatted as 0xAARRGGBB, if alpha channel is 0, means no fill operation, otherwise alpha channel are ignored.

Returns

true or false

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.6 AddAnnotEllipse() [2/2]

```
final boolean com.radaee.pdf.Page.AddAnnotEllipse (
    Matrix mat,
    float[] rect,
    float width,
    int color,
    int fill_color )
```

add ellipse to page.

you should re-render page to display modified data.

this can be invoked after ObjsStart or Render or RenderToBmp.

this method require professional or premium license

Parameters

<i>mat</i>	Matrix for Render function.
<i>rect</i>	4 elements for left, top, right, bottom in DIB coordinate system
<i>width</i>	line width
<i>color</i>	ellipse color, formatted as 0xAARRGGBB
<i>fill_color</i>	fill color in ellipse, formatted as 0xAARRGGBB, if alpha channel is 0, means no fill operation, otherwise alpha channel are ignored.

Returns

true or false

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.7 AddAnnotGlyph()

```
final boolean com.radaee.pdf.Page.AddAnnotGlyph (
    Matrix mat,
```

```

    Path path,
    int color,
    boolean winding )

```

add a user-defined glyph to page.
 you should re-render page to display modified data.
 this can be invoked after ObjsStart or Render or RenderToBmp.
 this method require professional or premium license

Parameters

<i>mat</i>	Matrix for Render function.
<i>path</i>	Path object.
<i>color</i>	text color, formatted as 0xAARRGGBB.
<i>winding</i>	if true, using winding fill rule, otherwise using odd-even fill rule.

Returns

true or false.
 the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.8 AddAnnotGoto()

```

final boolean com.radaee.pdf.Page.AddAnnotGoto (
    float[] rect,
    int pageno,
    float top )

```

add goto-page link to page.
 you should re-render page to display modified data.
 this can be invoked after ObjsStart or Render or RenderToBmp.
 this method require professional or premium license

Parameters

<i>rect</i>	link area rect [left, top, right, bottom] in PDF coordinate.
<i>pageno</i>	0 based pageno to goto.
<i>top</i>	y coordinate in PDF coordinate, page.height is top of page. and 0 is bottom of page.

Returns

true or false.
 the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.9 AddAnnotHWriting()

```
final boolean com.radaee.pdf.Page.AddAnnotHWriting (
    Matrix mat,
    HWriting hwriting,
    float orgx,
    float orgy )
```

add hand-writing to page.
you should re-render page to display modified data.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license

Parameters

<i>mat</i>	Matrix for Render function.
<i>hwriting</i>	hand writing object
<i>orgx</i>	origin x coordinate in page. in DIB coordinate system
<i>orgy</i>	origin y coordinate in page. in DIB coordinate system

Returns

true or false
the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.10 AddAnnotInk() [1/2]

```
final boolean com.radaee.pdf.Page.AddAnnotInk (
    Ink ink )
```

add hand-writing to page.
you should re-render page to display modified data.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license

Parameters

<i>ink</i>	Ink object in PDF coordinate.
------------	---

Returns

true or false.
the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.11 AddAnnotInk() [2/2]

```
final boolean com.radaee.pdf.Page.AddAnnotInk (
    Matrix mat,
    Ink ink,
    float orgx,
    float orgy )
```

add hand-writing to page.
you should re-render page to display modified data.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license

Parameters

<i>mat</i>	Matrix for Render function.
<i>ink</i>	Ink object
<i>orgx</i>	origin x coordinate in page. in DIB coordinate system
<i>orgy</i>	origin y coordinate in page. in DIB coordinate system

Returns

true or false
the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.12 AddAnnotLine() [1/2]

```
final boolean com.radaee.pdf.Page.AddAnnotLine (
    float[] pt1,
    float[] pt2,
    int style1,
    int style2,
    float width,
    int color,
    int icolor )
```

add line to page.
you should re-render page to display modified data.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license

Parameters

<i>pt1</i>	start point in PDF coordinate, 2 elements for x,y
<i>pt2</i>	end point in PDF coordinate, 2 elements for x,y

Parameters

<i>style1</i>	style for start point: 0: None 1: Arrow 2: Closed Arrow 3: Square 4: Circle 5: Butt 6: Diamond 7: Reverted Arrow 8: Reverted Closed Arrow 9: Slash
<i>style2</i>	style for end point, values are same as style1.
<i>width</i>	line width in DIB coordinate
<i>color</i>	line color. same as addAnnotRect.
<i>icolor</i>	fill color, used to fill arrows of the line.

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.13 AddAnnotLine() [2/2]

```
final boolean com.radaee.pdf.Page.AddAnnotLine (
    Matrix mat,
    float[] pt1,
    float[] pt2,
    int style1,
    int style2,
    float width,
    int color,
    int fill_color )
```

add line to page.

you should re-render page to display modified data.

this can be invoked after [ObjsStart](#) or [Render](#) or [RenderToBmp](#).

this method require professional or premium license

Parameters

<i>mat</i>	Matrix for Render function.
<i>pt1</i>	start point, 2 elements for x,y
<i>pt2</i>	end point, 2 elements for x,y

Parameters

<i>style1</i>	style for start point: 0: None 1: Arrow 2: Closed Arrow 3: Square 4: Circle 5: Butt 6: Diamond 7: Reverted Arrow 8: Reverted Closed Arrow 9: Slash
<i>style2</i>	style for end point, values are same as style1.
<i>width</i>	line width in DIB coordinate
<i>color</i>	line color. same as addAnnotRect.
<i>fill_color</i>	fill color. same as addAnnotRect.

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.14 AddAnnotMarkup() [1/2]

```
boolean com.radaee.pdf.Page.AddAnnotMarkup (
    int cindex1,
    int cindex2,
    int type )
```

add a text-markup annotation to page.

you should re-render page to display modified data.

this can be only invoked after ObjsStart.

this method require professional or premium license

Parameters

<i>cindex1</i>	first char index
<i>cindex2</i>	second char index
<i>type</i>	type as following: 0: Highlight 1: Underline 2: StrikeOut 3: Highlight without round corner 4: Squiggly underline.

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.15 AddAnnotMarkup() [2/2]

```
boolean com.radaee.pdf.Page.AddAnnotMarkup (
    Matrix mat,
    float[] rects,
    int type )
```

add a text-markup annotation to page.

you should re-render page to display modified data.

this can be invoked after ObjsStart or Render or RenderToBmp.

this method require professional or premium license

Parameters

<i>mat</i>	Matrix for Render function.
<i>rects</i>	4 * n rectangles, each 4 elements: left, top, right, bottom in DIB coordinate system. n is decided by length of array.
<i>type</i>	0: Highlight, 1: Underline, 2: StrikeOut, 3: Highlight without round corner.

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.16 AddAnnotPolygon()

```
final boolean com.radaee.pdf.Page.AddAnnotPolygon (
    Path path,
    int color,
    int fill_color,
    float width )
```

add polygon to page.

you should re-render page to display modified data.

this can be invoked after ObjsStart or Render or RenderToBmp.

this method require professional or premium license

Parameters

<i>path</i>	must be a closed contour.
<i>color</i>	stroke color formatted as 0xAARRGGBB.
<i>fill_color</i>	fill color, formatted as 0xAARRGGBB. if AA == 0, no fill operations, otherwise alpha value is
<i>width</i>	stroke width in PDF coordinate

Returns

true or false.
 the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.17 AddAnnotPolyline()

```
final boolean com.radaee.pdf.Page.AddAnnotPolyline (
    Path path,
    int style1,
    int style2,
    int color,
    int fill_color,
    float width )
```

add polyline to page.
 you should re-render page to display modified data.
 this can be invoked after ObjsStart or Render or RenderToBmp.
 this method require professional or premium license

Parameters

<i>path</i>	must be a set of unclosed lines. do not container any move-to operation except the first point in the path.
<i>style1</i>	style for start point: 0: None 1: Arrow 2: Closed Arrow 3: Square 4: Circle 5: Butt 6: Diamond 7: Reverted Arrow 8: Reverted Closed Arrow 9: Slash
<i>style2</i>	style for end point, values are same as style1.
<i>color</i>	stroke color formated as 0xAARRGGBB.
<i>fill_color</i>	fill color, formated as 0xAARRGGBB. if AA == 0, no fill operations, otherwise alpha value is same to stroke color.
<i>width</i>	stroke width in PDF coordinate

Returns

true or false.
 the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.18 AddAnnotRect() [1/2]

```
final boolean com.radaee.pdf.Page.AddAnnotRect (
    float[] rect,
    float width,
    int color,
    int fill_color )
```

add rectangle to page.

you should re-render page to display modified data.

this can be invoked after ObjsStart or Render or RenderToBmp.

this method require professional or premium license

Parameters

<i>rect</i>	4 elements for left, top, right, bottom in PDF coordinate system
<i>width</i>	line width in PDF coordinate.
<i>color</i>	rectangle color, formatted as 0xAARRGGBB
<i>fill_color</i>	fill color in rectangle, formatted as 0xAARRGGBB, if alpha channel is 0, means no fill operation, otherwise alpha channel are ignored.

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.19 AddAnnotRect() [2/2]

```
final boolean com.radaee.pdf.Page.AddAnnotRect (
    Matrix mat,
    float[] rect,
    float width,
    int color,
    int fill_color )
```

add rectangle to page.

you should re-render page to display modified data.

this can be invoked after ObjsStart or Render or RenderToBmp.

this method require professional or premium license

Parameters

<i>mat</i>	Matrix for Render function.
<i>rect</i>	4 elements for left, top, right, bottom in DIB coordinate system
<i>width</i>	line width
<i>color</i>	rectangle color, formatted as 0xAARRGGBB
<i>fill_color</i>	fill color in rectangle, formatted as 0xAARRGGBB, if alpha channel is 0, means no fill operation, otherwise alpha channel are ignored.

Returns

true or false.
 the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.20 AddAnnotRichMedia()

```
final boolean com.radaee.pdf.Page.AddAnnotRichMedia (
    String path_player,
    String path_content,
    int type,
    DocImage image,
    float[] rect )
```

add a RichMedia annotation to page.
 you should re-render page to display modified data.
 this can be invoked after ObjsStart or Render or RenderToBmp.
 this method require professional or premium license, and [Document.SetCache](#) invoked.

Parameters

<i>path_player</i>	path-name to flash player. example: "/sdcard/VideoPlayer.swf", "/sdcard/AudioPlayer.swf"
<i>path_content</i>	path-name to RichMedia content. example: "/sdcard/video.mp4", "/sdcard/audio.mp3"
<i>type</i>	0: Video, 1: Audio, 2: Flash, 3: 3D Video like *.mpg, *.mp4 ... Audio like *.mp3 ...
<i>image</i>	DocImage object return from Document.NewImage* ();
<i>rect</i>	4 elements: left, top, right, bottom in PDF coordinate system.

Returns

true or false.

3.50.2.21 AddAnnotStamp()

```
final boolean com.radaee.pdf.Page.AddAnnotStamp (
    float[] rect,
    int icon )
```

add an Rubber Stamp to page.
 you should re-render page to display modified data.
 this can be invoked after ObjsStart or Render or RenderToBmp.
 this method require professional or premium license

Parameters

<i>rect</i>	icon area rect [left, top, right, bottom] in PDF coordinate.
<i>icon</i>	predefined value as below: 0: "Draft"(default icon) 1: "Approved" 2: "Experimental" 3: "NotApproved" 4: "AsIs" 5: "Expired" 6: "NotForPublicRelease" 7: "Confidential" 8: "Final" 9: "Sold" 10: "Departmental" 11: "ForComment" 12: "TopSecret" 13: "ForPublicRelease" 14: "Accepted" 15: "Rejected" 16: "Witness" 17: "InitialHere" 18: "SignHere" 19: "Void" 20: "Completed" 21: "PreliminaryResults" 22: "InformationOnly" 23: "End"

Returns

true or false.

the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.22 AddAnnotText()

```
final boolean com.radaee.pdf.Page.AddAnnotText (
    float[] pt )
```

add a sticky text annotation to page.

you should re-render page to display modified data.

this can be invoked after ObjsStart or Render or RenderToBmp.

this method require professional or premium license

Parameters

<i>pt</i>	2 elements: x, y in PDF coordinate system.
-----------	--

Returns

true or false.
 the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.23 AddAnnotURI()

```
final boolean com.radaee.pdf.Page.AddAnnotURI (
    float[] rect,
    String uri )
```

add URL link to page.
 you should re-render page to display modified data.
 this can be invoked after ObjsStart or Render or RenderToBmp.
 this method require professional or premium license

Parameters

<i>rect</i>	link area rect [left, top, right, bottom] in PDF coordinate.
<i>uri</i>	url address, example: "http://www.radaee.com/en"

Returns

true or false.
 the added annotation can be obtained by [Page.GetAnnot\(Page.GetAnnotCount\(\) - 1\)](#), if this method return true.

3.50.2.24 AddContent()

```
boolean com.radaee.pdf.Page.AddContent (
    PageContent content,
    boolean flush )
```

add content stream to this page.
 a premium license is required for this method.

Parameters

<i>content</i>	PageContent object called PageContent.create() .
<i>flush</i>	does need flush all resources? true, if you want render page after this method, or false. if false, added texts won't displayed till Document.Save() or Document.SaveAs() invoked.

Returns

true or false.

3.50.2.25 AddResFont()

```
ResFont com.radaee.pdf.Page.AddResFont (
    DocFont font )
```

add a font as resource of this page.
a premium license is required for this method.

Parameters

<i>font</i>	font object created by Document.NewFontCID()
-------------	--

Returns

[ResFont](#) or null.

3.50.2.26 AddResForm()

```
ResForm com.radaee.pdf.Page.AddResForm (
    DocForm form )
```

add Form as resource of this page.
a premium license is required for this method.

Parameters

<i>form</i>	Form created by Document.NewForm() ;
-------------	--

Returns

null means failed.

3.50.2.27 AddResGState()

```
ResGState com.radaee.pdf.Page.AddResGState (
    DocGState gstate )
```

add GraphicState as resource of this page.
a premium license is required for this method.

Parameters

<i>gstate</i>	ExtGraphicState created by Document.NewGState() ;
---------------	---

Returns

null means failed.

3.50.2.28 AddResImage()

```
ResImage com.radaee.pdf.Page.AddResImage (
    DocImage image )
```

add an image as resource of this page.
a premium license is required for this method.

Parameters

<i>image</i>	image object created by Document.NewImage() or Document.NewImageJPEG()
--------------	--

Returns

null means failed.

3.50.2.29 Advance_GetRef()

```
final Ref com.radaee.pdf.Page.Advance_GetRef ( )
```

advanced function to get reference of [Page](#) object.
this method require premium license.

Returns

reference

3.50.2.30 Advance_Reload()

```
final void com.radaee.pdf.Page.Advance_Reload ( )
```

advanced function to reload page object, after advanced methods update [Page](#) object data.
all annotations return from [Page.GetAnnot\(\)](#) or [Page.GetAnnotFromPoint\(\)](#) shall not available. after this method invoked.
this method require premium license.

3.50.2.31 Close()

```
void com.radaee.pdf.Page.Close ( )
```

Close page object and free memory.

Reimplemented in [com.radaee.pdf.SuperPage](#).

3.50.2.32 CopyAnnot()

```
boolean com.radaee.pdf.Page.CopyAnnot (
    Annotation annot,
    float[] rect )
```

clone an annotation object to this page.
this method need a professional or premium license.

Parameters

<i>annot</i>	Annotation object must be in this document..
<i>rect</i>	[left, top, right, bottom] in PDF coordinate.

Returns

true or false.

3.50.2.33 FindOpen() [1/2]

```
Finder com.radaee.pdf.Page.FindOpen (
    String str,
    boolean match_case,
    boolean whole_word )
```

create a find session. this can be invoked after ObjsStart

Parameters

<i>str</i>	key string to find.
<i>match_case</i>	match case?
<i>whole_word</i>	match whole word?

Returns

handle of find session, or 0 if no found.

3.50.2.34 FindOpen() [2/2]

```
Finder com.radaee.pdf.Page.FindOpen (
    String str,
    boolean match_case,
    boolean whole_word,
    boolean skip_blank )
```

create a find session. this can be invoked after ObjsStart
this function treats line break as blank char.

Parameters

<i>str</i>	key string to find.
<i>match_case</i>	match case?
<i>whole_word</i>	match whole word?
<i>skip_blank</i>	skip blank?

Returns

handle of find session, or 0 if no found.

3.50.2.35 FlatAnnots()

```
boolean com.radaee.pdf.Page.FlatAnnots ( )
```

remove all annotations and display it as normal content on page.
this method require premium license.

Returns

true or false

3.50.2.36 GetAnnot()

```
Annotation com.radaee.pdf.Page.GetAnnot (
    int index )
```

get annotations by index.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license

Parameters

<i>index</i>	0 based index value. range:[0, GetAnnotCount() -1]
--------------	--

Returns

handle of annotation, valid until Close invoked.

3.50.2.37 GetAnnotByName()

```
Annotation com.radaee.pdf.Page.GetAnnotByName (
    String name )
```

get annotation by name.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license

Parameters

<i>name</i>	name string in "NM" entry of annotation.
-------------	--

Returns

Annotation object, valid until [Page.Close](#) invoked.

3.50.2.38 GetAnnotCount()

```
final int com.radaee.pdf.Page.GetAnnotCount ( )
```

get annotations count in this page.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license

Returns

count

3.50.2.39 GetAnnotFromPoint()

```
Annotation com.radaee.pdf.Page.GetAnnotFromPoint (
    float x,
    float y )
```

get annotation by PDF point.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license

Parameters

x	x value in PDF coordinate system.
y	y value in PDF coordinate system.

Returns

Annotation object, valid until [Page.Close](#) invoked.

3.50.2.40 GetCropBox()

```
final float[] com.radaee.pdf.Page.GetCropBox ( )
```

get rotated CropBox, this method need an any type of license.

Returns

float array as [left, top, right, bottom] in PDF coordinate.

3.50.2.41 GetMediaBox()

```
final float[] com.radaee.pdf.Page.GetMediaBox ( )
```

get rotated MediaBox, this method need an any type of license.

Returns

float array as [left, top, right, bottom] in PDF coordinate.

3.50.2.42 GetRotate()

```
final int com.radaee.pdf.Page.GetRotate ( )
```

get rotate degree for page, example: 0 or 90

Returns

rotate degree for page

3.50.2.43 ImportAnnot()

```
boolean com.radaee.pdf.Page.ImportAnnot (
    float[] rect,
    byte[] data )
```

import annotation from memory(byte array)
a premium license is required for this method.

Parameters

<i>rect</i>	[left, top, right, bottom] in PDF coordinate. which is the import annotation's position.
<i>data</i>	data returned from Annotation.Export()

Returns

true or false.

3.50.2.44 ObjsAlignWord()

```
final int com.radaee.pdf.Page.ObjAlignWord (
    int from,
    int dir )
```

get index aligned by word. this can be invoked after ObjsStart

Parameters

<i>from</i>	0 based unicode index.
<i>dir</i>	if dir < 0, get start index of the word. otherwise get last index of the word.

Returns

new index value.

3.50.2.45 ObjsGetCharCount()

```
final int com.radaee.pdf.Page.ObjGetCharCount ( )
```

get chars count in this page. this can be invoked after ObjsStart
a standard license is required for this method

Returns

count or 0 if ObjsStart not invoked.

3.50.2.46 ObjsGetCharFontName()

```
String com.radaee.pdf.Page.ObjGetCharFontName (
    int index )
```

get char's font name. this can be invoked after ObjsStart

Parameters

<i>index</i>	0 based unicode index.
--------------	------------------------

Returns

font name, may be null.

3.50.2.47 ObjsGetCharIndex()

```
final int com.radaee.pdf.Page.ObjsGetCharIndex (
    float[] pt )
```

get char index nearest to point

Parameters

<i>pt</i>	point as [x,y] in PDF coordinate.
-----------	-----------------------------------

Returns

char index or -1 failed.

3.50.2.48 ObjsGetCharRect()

```
final void com.radaee.pdf.Page.ObjsGetCharRect (
    int index,
    float[] vals )
```

get char's box in PDF coordinate system, this can be invoked after ObjsStart

Parameters

<i>index</i>	0 based unicode index.
<i>vals</i>	return 4 elements for PDF rectangle.

3.50.2.49 ObjsGetString()

```
final String com.radaee.pdf.Page.ObjsGetString (
    int from,
    int to )
```

get string from range. this can be invoked after ObjsStart

Parameters

<i>from</i>	0 based unicode index.
<i>to</i>	0 based unicode index.

Returns

string or null.

3.50.2.50 ObjsStart()

```
final void com.radaee.pdf.Page.ObjStart ( )
```

get text objects to memory.
a standard license is required for this method

3.50.2.51 Reflow()

```
final boolean com.radaee.pdf.Page.Reflow (
    DIB dib,
    float orgx,
    float orgy )
```

Reflow to dib.
this method require professional or premium license

Parameters

<i>dib</i>	dib to render
<i>orgx</i>	origin x coordinate
<i>orgy</i>	origin y coordinate

Returns

true or false

3.50.2.52 ReflowGetCharColor()

```
final int com.radaee.pdf.Page.ReflowGetCharColor (
    int iparagraph,
    int ichar )
```

get char's fill color for display.
this method require professional or premium license

Parameters

<i>iparagraph</i>	paragraph index range[0, ReflowGetParaCount()-1]
<i>ichar</i>	char index range[0, ReflowGetCharCount()]

Returns

color value formatted 0xAARRGGBB, AA: alpha value, RR:red, GG:green, BB:blue

3.50.2.53 ReflowGetCharCount()

```
final int com.radaee.pdf.Page.ReflowGetCharCount (
    int iparagraph )
```

get one paragraph's char count.
this method require professional or premium license

Parameters

<i>iparagraph</i>	paragraph index range[0, ReflowGetParaCount()-1]
-------------------	---

Returns

char count

3.50.2.54 ReflowGetCharFont()

```
final String com.radaee.pdf.Page.ReflowGetCharFont (
    int iparagraph,
    int ichar )
```

get char's font name.
this method require professional or premium license

Parameters

<i>iparagraph</i>	paragraph index range[0, ReflowGetParaCount()-1]
<i>ichar</i>	char index range[0, ReflowGetCharCount()]

Returns

name string

3.50.2.55 ReflowGetCharHeight()

```
final float com.radaee.pdf.Page.ReflowGetCharHeight (
    int iparagraph,
    int ichar )
```

get char's font height.

this method require professional or premium license

Parameters

<i>iparagraph</i>	paragraph index range[0, ReflowGetParaCount()-1]
<i>ichar</i>	char index range[0, ReflowGetCharCount()]

Returns

font height for this char

3.50.2.56 ReflowGetCharRect()

```
final void com.radaee.pdf.Page.ReflowGetCharRect (
    int iparagraph,
    int ichar,
    float[] rect )
```

get char's bound box.

this method require professional or premium license

Parameters

<i>iparagraph</i>	paragraph index range[0, ReflowGetParaCount()-1]
<i>ichar</i>	char index range[0, ReflowGetCharCount()]
<i>rect</i>	output: 4 element as [left, top, right, bottom].

3.50.2.57 ReflowGetCharUnicode()

```
final int com.radaee.pdf.Page.ReflowGetCharUnicode (
    int iparagraph,
    int ichar )
```

get char's unicode value.

this method require professional or premium license

Parameters

<i>iparagraph</i>	paragraph index range[0, ReflowGetParaCount()-1]
<i>ichar</i>	char index range[0, ReflowGetCharCount()]

Returns

unicode

3.50.2.58 ReflowGetCharWidth()

```
final float com.radaee.pdf.Page.ReflowGetCharWidth (
    int iparagraph,
    int ichar )
```

get char's font width.

this method require professional or premium license

Parameters

<i>iparagraph</i>	paragraph index range[0, ReflowGetParaCount()-1]
<i>ichar</i>	char index range[0, ReflowGetCharCount()]

Returns

font width for this char

3.50.2.59 ReflowGetParaCount()

```
final int com.radaee.pdf.Page.ReflowGetParaCount ( )
```

get reflow paragraph count.

this method require professional or premium license

Returns

count

3.50.2.60 ReflowGetText()

```
String com.radaee.pdf.Page.ReflowGetText (
    int iparagraph1,
    int ichar1,
    int iparagraph2,
    int ichar2 )
```

get text from range.

this method require professional or premium license

Parameters

<i>iparagraph1</i>	first position
<i>ichar1</i>	first position
<i>iparagraph2</i>	second position
<i>ichar2</i>	second position

Returns

string value or null

3.50.2.61 ReflowStart()

```
final float com.radaee.pdf.Page.ReflowStart (
    float width,
    float scale,
    boolean enable_images )
```

Start Reflow.

this method require professional or premium license

Parameters

<i>width</i>	input width, function calculate height.
<i>scale</i>	scale base to 72 DPI, 2.0 means 144 DPI. the reflowed text will displayed in scale
<i>enable_images</i>	enable reflow images.

Returns

the height that reflow needed.

3.50.2.62 ReflowToBmp()

```
final boolean com.radaee.pdf.Page.ReflowToBmp (
    Bitmap bitmap,
    float orgx,
    float orgy )
```

Reflow to Bitmap object.

this method require professional or premium license

Parameters

<i>bitmap</i>	bitmap to reflow
<i>orgx</i>	origin x coordinate
<i>orgy</i>	origin y coordinate

Returns

true or false

3.50.2.63 Render()

```
final boolean com.radaee.pdf.Page.Render (
    DIB dib,
    Matrix mat )
```

render page to dib object. this function returned for cancelled or finished. before render, you need invoke RenderPrepare.

Parameters

<i>dib</i>	DIB object to render. obtained by Global.dibGet().
<i>mat</i>	Matrix object define scale, rotate, translate operations.

Returns

true or false.

3.50.2.64 Render_Normal()

```
final boolean com.radaee.pdf.Page.Render_Normal (
    DIB dib,
    Matrix mat )
```

render to page in normal quality

Parameters

<i>dib</i>	same as Render function
<i>mat</i>	same as Render function

3.50.2.65 RenderCancel()

```
final void com.radaee.pdf.Page.RenderCancel ( )
```

set page status to cancelled and cancel render function.

3.50.2.66 RenderIsFinished()

```
final boolean com.radaee.pdf.Page.RenderIsFinished ( )
```

check if page rendering is finished.

Returns

true or false

3.50.2.67 RenderPrepare() [1/2]

```
final void com.radaee.pdf.Page.RenderPrepare (
    Bitmap bmp )
```

same as RenderPrepare(null);

3.50.2.68 RenderPrepare() [2/2]

```
final void com.radaee.pdf.Page.RenderPrepare (
    DIB dib )
```

prepare to render. it reset dib pixels to white value, and reset page status.
if dib is null, only to reset page status.

Parameters

<i>dib</i>	DIB object to render. get from Global.dibGet() or null.
------------	---

3.50.2.69 RenderThumb()

```
final boolean com.radaee.pdf.Page.RenderThumb (
    Bitmap bmp )
```

render thumb image to Bitmap object.
the image always scale and displayed in center of Bitmap.

Parameters

<i>bmp</i>	Bitmap to render
------------	------------------

Returns

true if the page has thumb image, or false.

3.50.2.70 RenderThumbToBuf()

```
final boolean com.radaee.pdf.Page.RenderThumbToBuf (
    int[] data,
    int w,
    int h )
```

render thumb image to int array object.
the image always scale and displayed in center of Bitmap.

Parameters

<i>data</i>	int array store as pixels, must length as w * h, each element formatted as 0xAARRGGBB
<i>w</i>	
<i>h</i>	

Returns

3.50.2.71 RenderToBmp()

```
final boolean com.radaee.pdf.Page.RenderToBmp (
    Bitmap bitmap,
    Matrix mat )
```

render page to Bitmap object directly. this function returned for cancelled or finished.
before render, you need erase Bitmap object.

Parameters

<i>bitmap</i>	Bitmap object to render.
<i>mat</i>	Matrix object define scale, rotate, translate operations.

Returns

true or false.

3.50.2.72 RenderToBuf()

```
final boolean com.radaee.pdf.Page.RenderToBuf (
    int[] data,
    int w,
    int h,
    Matrix mat )
```

render page to int array directly. this function returned for cancelled or finished.
before render, you need erase int array object.

Parameters

<i>data</i>	int array store as pixels, must length as w * h, each element formatted as 0xAARRGGBB
<i>w</i>	width.
<i>h</i>	height.
<i>mat</i>	Matrix object define scale, rotate, translate operations.

Returns

true or false.

3.50.2.73 Sign()

```
int com.radaee.pdf.Page.Sign (
    Document.DocForm form,
    float[] rect,
    String cert_file,
    String pswd,
    String name,
    String reason,
    String location,
    String contact )
```

Sign and save the PDF file.

this method required premium license, and signed feature native libs, which has bigger size.

Parameters

<i>form</i>	appearance for sign field.
<i>rect</i>	rectangle for sign field
<i>cert_file</i>	a cert file like .p12 or .pfx file, DER encoded cert file.
<i>pswd</i>	password to open cert file.
<i>name</i>	signer name string.
<i>reason</i>	sign reason will write to signature.
<i>location</i>	signature location will write to signature.
<i>contact</i>	contact info will write to signature.

Returns

- 0 mean OK
- 1: generate parameters error.
- 2: it is not signature field, or field has already signed.
- 3: invalid annotation data.
- 4: save PDF file failed.
- 5: cert file open failed.

The documentation for this class was generated from the following file:

- Page.java

3.51 com.radaee.pdf.PageContent Class Reference

Public Member Functions

- final void [Create](#) ()
- final void [Destroy](#) ()
- final void [GSSave](#) ()
- final void [GSRestore](#) ()
- final void [GSSetMatrix](#) ([Matrix](#) mat)
- final void [GSSet](#) ([ResGState](#) gs)
- final void [DrawImage](#) ([ResImage](#) image)
- final void [DrawForm](#) ([ResForm](#) frm)
- final void [FillPath](#) ([Path](#) path, boolean winding)
- final void [ClipPath](#) ([Path](#) path, boolean winding)
- final void [StrokePath](#) ([Path](#) path)
- final void [SetFillColor](#) (int color)
- final void [SetStrokeColor](#) (int color)
- final void [SetStrokeCap](#) (int cap)
- final void [SetStrokeJoin](#) (int join)
- final void [SetStrokeWidth](#) (float w)
- final void [SetStrokeMiter](#) (float miter)
- final void [DrawText](#) (String text)
- final int [DrawText](#) (String text, int align, float width)
- final int[] [DrawText](#) (String text, int align, float width, int max_lines)
- final void [TextBegin](#) ()
- final void [TextEnd](#) ()
- final void [TextSetCharSpace](#) (float space)
- final void [TextSetWordSpace](#) (float space)
- final void [TextSetLeading](#) (float leading)
- final void [TextSetRise](#) (float rise)
- final void [TextSetHScale](#) (int scale)
- final void [TextNextLine](#) ()
- final void [TextMove](#) (float x, float y)
- final void [TextSetRenderMode](#) (int mode)
- final void [TextSetFont](#) ([ResFont](#) font, float size)
- final float[] [TextGetSize](#) ([ResFont](#) font, String text, float width, float height, float char_space, float word_space)

Protected Member Functions

- void **finalize** () throws Throwable

Protected Attributes

- long **hand** = 0

3.51.1 Member Function Documentation

3.51.1.1 ClipPath()

```
final void com.radaee.pdf.PageContent.ClipPath (
    Path path,
    boolean winding )
```

set the path as clip path.

Parameters

<i>path</i>	Path object
<i>winding</i>	winding fill rule?

3.51.1.2 Create()

```
final void com.radaee.pdf.PageContent.Create ( )
```

create it.

3.51.1.3 Destroy()

```
final void com.radaee.pdf.PageContent.Destroy ( )
```

destroy and free memory.

3.51.1.4 DrawForm()

```
final void com.radaee.pdf.PageContent.DrawForm (
    ResForm frm )
```

PDF operator: show form.

Parameters

<i>frm</i>	Form object created by Page.AddResForm() or Form.AddResForm()
------------	---

3.51.1.5 DrawImage()

```
final void com.radaee.pdf.PageContent.DrawImage (
    ResImage image )
```

PDF operator: show image.

Parameters

<i>image</i>	image object created by Page.AddResImage() or Form.AddResImage()
--------------	--

3.51.1.6 DrawText() [1/3]

```
final void com.radaee.pdf.PageContent.DrawText (
    String text )
```

show text

Parameters

<i>text</i>	text to show, '\r' or ' ' in string start a new line.
-------------	--

3.51.1.7 DrawText() [2/3]

```
final int com.radaee.pdf.PageContent.DrawText (
    String text,
    int align,
    float width )
```

show text with special width

Parameters

<i>text</i>	text to show.
<i>align</i>	0:left, 1: middle, 2:right
<i>width</i>	bounding width to draw text

Returns

line count of this text drawing.

3.51.1.8 DrawText() [3/3]

```
final int[] com.radaee.pdf.PageContent.DrawText (
    String text,
    int align,
    float width,
    int max_lines )
```

show text with special width and max line count.

Parameters

<i>text</i>	text to show.
<i>align</i>	0:left, 1: middle, 2:right
<i>width</i>	bounding width to draw text
<i>max_lines</i>	max line count of this drawing

Returns

2 element as [count of unicodes have drawn, line count have drawn].

3.51.1.9 FillPath()

```
final void com.radaee.pdf.PageContent.FillPath (
    Path path,
    boolean winding )
```

fill path.

Parameters

<i>path</i>	Path object
<i>winding</i>	winding fill rule?

3.51.1.10 GSRestore()

```
final void com.radaee.pdf.PageContent.GSRestore ( )
```

PDF operator: gs_restore, restore GraphicState

3.51.1.11 GSSave()

```
final void com.radaee.pdf.PageContent.GSSave ( )
```

PDF operator: `gs_save`, save current `GraphicState`

3.51.1.12 GSSet()

```
final void com.radaee.pdf.PageContent.GSSet (
    ResGState gs )
```

PDF operator: `set ExtGraphicState`

Parameters

<i>gs</i>	ResGState object created by Page.AddResGState() or Form.AddResGState()
-----------	--

3.51.1.13 GSSetMatrix()

```
final void com.radaee.pdf.PageContent.GSSetMatrix (
    Matrix mat )
```

PDF operator: `set matrix`.

Parameters

<i>mat</i>	Matrix object
------------	-------------------------------

3.51.1.14 SetFillColor()

```
final void com.radaee.pdf.PageContent.SetFillColor (
    int color )
```

PDF operator: `set fill and other operations color`.

Parameters

<i>color</i>	formatted as <code>0xRRGGBB</code> , no alpha channel. alpha value shall set by <code>ExtGraphicState(ResGState)</code> .
--------------	---

3.51.1.15 SetStrokeCap()

```
final void com.radaee.pdf.PageContent.SetStrokeCap (
```

```
int cap )
```

PDF operator: set line cap

Parameters

<i>cap</i>	0:butt, 1:round, 2:square
------------	---------------------------

3.51.1.16 SetStrokeColor()

```
final void com.radaee.pdf.PageContent.SetStrokeColor (
    int color )
```

PDF operator: set stroke color.

Parameters

<i>color</i>	formatted as 0xRRGGBB, no alpha channel. alpha value shall set by ExtGraphicState(ResGState).
--------------	---

3.51.1.17 SetStrokeJoin()

```
final void com.radaee.pdf.PageContent.SetStrokeJoin (
    int join )
```

PDF operator: set line join

Parameters

<i>join</i>	0:miter, 1:round, 2:bevel
-------------	---------------------------

3.51.1.18 SetStrokeMiter()

```
final void com.radaee.pdf.PageContent.SetStrokeMiter (
    float miter )
```

PDF operator: set miter limit.

Parameters

<i>miter</i>	miter limit.
--------------	--------------

3.51.1.19 SetStrokeWidth()

```
final void com.radaee.pdf.PageContent.SetStrokeWidth (
    float w )
```

PDF operator: set line width

Parameters

<i>w</i>	line width in PDF coordinate
----------	------------------------------

3.51.1.20 StrokePath()

```
final void com.radaee.pdf.PageContent.StrokePath (
    Path path )
```

stroke path.

Parameters

<i>path</i>	Path object
-------------	-----------------------------

3.51.1.21 TextBegin()

```
final void com.radaee.pdf.PageContent.TextBegin ( )
```

PDF operator: begin text and set text position to (0,0).

3.51.1.22 TextEnd()

```
final void com.radaee.pdf.PageContent.TextEnd ( )
```

PDF operator: text end.

3.51.1.23 TextGetSize()

```
final float[] com.radaee.pdf.PageContent.TextGetSize (
    ResFont font,
    String text,
    float width,
    float height,
    float char_space,
    float word_space )
```

reserved.

Parameters

<i>font</i>	
<i>text</i>	test to display, may container '\r' or ' '
<i>width</i>	font width
<i>height</i>	font height
<i>char_space</i>	
<i>word_space</i>	

Returns

3.51.1.24 TextMove()

```
final void com.radaee.pdf.PageContent.TextMove (
    float x,
    float y )
```

PDF operator: move text position relative to previous line

Parameters

<i>x</i>	in PDF coordinate add to previous line position
<i>y</i>	in PDF coordinate add to previous line position

3.51.1.25 TextNextLine()

```
final void com.radaee.pdf.PageContent.TextNextLine ( )
```

PDF operator: new a text line

3.51.1.26 TextSetCharSpace()

```
final void com.radaee.pdf.PageContent.TextSetCharSpace (
    float space )
```

PDF operator: set char space(extra space between chars).

Parameters

<i>space</i>	char space
--------------	------------

3.51.1.27 TextSetFont()

```
final void com.radaee.pdf.PageContent.TextSetFont (
    ResFont font,
    float size )
```

set text font

Parameters

<i>font</i>	ResFont object created by Page.AddResFont() or Form.AddResFont()
<i>size</i>	text size in PDF coordinate.

3.51.1.28 TextSetHScale()

```
final void com.radaee.pdf.PageContent.TextSetHScale (
    int scale )
```

PDF operator: set horizon scale for chars.

Parameters

<i>scale</i>	100 means scale value 1.0f
--------------	----------------------------

3.51.1.29 TextSetLeading()

```
final void com.radaee.pdf.PageContent.TextSetLeading (
    float leading )
```

PDF operator: set text leading, height between 2 text lines.

Parameters

<i>leading</i>	leading in PDF coordinate
----------------	---------------------------

3.51.1.30 TextSetRenderMode()

```
final void com.radaee.pdf.PageContent.TextSetRenderMode (
    int mode )
```

PDF operator: set text render mode.

Parameters

<i>mode</i>	0: filling 1: stroke 2: fill and stroke 3: do nothing 4: fill and set clip path 5: stroke and set clip path 6: fill/stroke/clip 7: set clip path.
-------------	--

3.51.1.31 TextSetRise()

```
final void com.radaee.pdf.PageContent.TextSetRise (
    float rise )
```

PDF operator: set text rise

Parameters

<i>rise</i>	
-------------	--

3.51.1.32 TextSetWordSpace()

```
final void com.radaee.pdf.PageContent.TextSetWordSpace (
    float space )
```

PDF operator: set word space(extra space between words spit by blank char ' ').

Parameters

<i>space</i>	word space.
--------------	-------------

The documentation for this class was generated from the following file:

- PageContent.java

3.52 com.radaee.view.PDFPageView.PageListener Interface Reference

The documentation for this interface was generated from the following file:

- PDFPageView.java

3.53 com.radaee.pdf.Path Class Reference

Public Member Functions

- final void [MoveTo](#) (float x, float y)
- final void [LineTo](#) (float x, float y)
- final void **CurveTo** (float x1, float y1, float x2, float y2, float x3, float y3)
- final void [ClosePath](#) ()
- final void [Destroy](#) ()
- final int **GetNodeCount** ()
- final int [GetNode](#) (int index, float[] pt)
- void **OnDraw** (Canvas canvas, float orgx, float orgy, Paint paint)
- void **onDrawPoint** (Canvas canvas, float orgx, float orgy, int rad, Paint paint)

Protected Member Functions

- void **finalize** () throws Throwable

Protected Attributes

- long **m_hand** = create()

3.53.1 Detailed Description

class for [Path](#)

Author

```
radaee
Examples: Path path = new Path();
path.MoveTo(0, 0);
path.LineTo(10, 10);
path.CurveTo(100, 0, 100, 100, 30, 70);
path.ClosePath();
int cnt = path.GetNodeCount();
int cur = 0;
float point[] = new float[2];
while( cur < cnt )
{
    path.GetNode(cur, point);
    cur++;
}
Page page = m_doc.GetPage(0);
page.ObjStart();
Matrix mat = new Matrix( 1, 0, 0, -1, 0, m_doc.GetPageHeight(0) );
page.AddAnnotGlyph(mat, path, 0xFF0000, true);
page.Close();
path.Destroy();
```

3.53.2 Member Function Documentation

3.53.2.1 ClosePath()

```
final void com.radaee.pdf.Path.ClosePath ( )
```

close a contour.

3.53.2.2 Destroy()

```
final void com.radaee.pdf.Path.Destroy ( )
```

free memory

3.53.2.3 GetNode()

```
final int com.radaee.pdf.Path.GetNode (
    int index,
    float[] pt )
```

get each node

Parameters

<i>index</i>	range [0, GetNodeCount() - 1]
<i>pt</i>	output value: 2 elements coordinate point

Returns

node type:
0: move to
1: line to
3: curve to, index, index + 1, index + 2 are all data
4: close operation

3.53.2.4 LineTo()

```
final void com.radaee.pdf.Path.LineTo (
    float x,
    float y )
```

line to operation

Parameters

<i>x</i>	
<i>y</i>	

3.53.2.5 MoveTo()

```
final void com.radaee.pdf.Path.MoveTo (
    float x,
    float y )
```

move to operation

Parameters

<i>x</i>	
<i>y</i>	

The documentation for this class was generated from the following file:

- Path.java

3.54 com.radaee.util.RadaeePluginCallback.PDFActivityListener Interface Reference

Public Member Functions

- void **closeReader** ()

3.54.1 Detailed Description

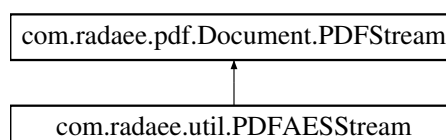
Interface to help pass events to the Activity

The documentation for this interface was generated from the following file:

- RadaeePluginCallback.java

3.55 com.radaee.util.PDFAESSStream Class Reference

Inheritance diagram for com.radaee.util.PDFAESSStream:



Public Member Functions

- boolean [open](#) (String path, byte[] key)
- void [close](#) ()
- boolean [writable](#) ()
- int [get_size](#) ()
- int [read](#) (byte[] data)
- int [write](#) (byte[] data)
- void [seek](#) (int pos)
- int [tell](#) ()
- boolean [ImportFromFile](#) (String path)
- boolean [ImportFromBuf](#) (byte[] data)
- boolean [ExportToFile](#) (String path)

Protected Member Functions

- void [finalize](#) () throws Throwable

3.55.1 Detailed Description

class both support read and write for AES encryption

Author

radaee

3.55.2 Member Function Documentation

3.55.2.1 [close\(\)](#)

```
void com.radaee.util.PDFAESStream.close ( )
```

free memory and resource used.

3.55.2.2 [get_size\(\)](#)

```
int com.radaee.util.PDFAESStream.get_size ( )
```

get stream length.

Returns

Implements [com.radaee.pdf.Document.PDFStream](#).

3.55.2.3 [ImportFromFile\(\)](#)

```
boolean com.radaee.util.PDFAESStream.ImportFromFile (
    String path )
```

clear all datas, and import PDF file, then save it as encrypted PDF file.

Parameters

<i>path</i>	PDF file to encrypt.
-------------	----------------------

Returns

true or false.

3.55.2.4 open()

```
boolean com.radaee.util.PDFAESStream.open (
    String path,
    byte[] key )
```

open or create a AES file stream.

Parameters

<i>path</i>	file path to open or create
<i>key</i>	16 bytes array for key.

Returns

true or false.

3.55.2.5 read()

```
int com.radaee.util.PDFAESStream.read (
    byte[] data )
```

read data from stream

Parameters

<i>data</i>	output values.
-------------	----------------

Returns

bytes read

Implements [com.radaee.pdf.Document.PDFStream](#).

3.55.2.6 seek()

```
void com.radaee.util.PDFAESStream.seek (
    int pos )
```

seek to position

Parameters

<i>pos</i>	position from begin of the stream
------------	-----------------------------------

Implements [com.radaee.pdf.Document.PDFStream](#).

3.55.2.7 tell()

```
int com.radaee.util.PDFAESStream.tell ( )
```

tell current position

Returns

position from begin of the stream

Implements [com.radaee.pdf.Document.PDFStream](#).

3.55.2.8 write()

```
int com.radaee.util.PDFAESStream.write (
    byte[] data )
```

write data to stream

Parameters

<i>data</i>	data to write
-------------	---------------

Returns

bytes written

Implements [com.radaee.pdf.Document.PDFStream](#).

3.55.2.9 writeable()

```
boolean com.radaee.util.PDFAESStream.writeable ( )
```

check whether the stream is writable

Returns

true or false

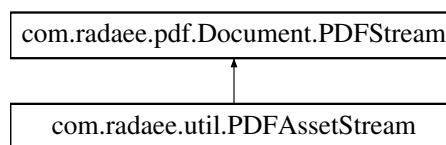
Implements [com.radaee.pdf.Document.PDFStream](#).

The documentation for this class was generated from the following file:

- PDFAESStream.java

3.56 com.radaee.util.PDFAssetStream Class Reference

Inheritance diagram for com.radaee.util.PDFAssetStream:



Public Member Functions

- boolean **open** (AssetManager assets, String symbol)
- void **close** ()
- boolean [writeable](#) ()
- int [get_size](#) ()
- int [read](#) (byte[] data)
- int [write](#) (byte[] data)
- void [seek](#) (int pos)
- int [tell](#) ()

Protected Member Functions

- void **finalize** () throws Throwable

3.56.1 Detailed Description

Asset stream, an implement class for PDFStream, which used in [Document.OpenStream](#)

Author

radaee

3.56.2 Member Function Documentation

3.56.2.1 get_size()

```
int com.radaee.util.PDFAssetStream.get_size ( )
```

get stream length.

Returns

Implements [com.radaee.pdf.Document.PDFStream](#).

3.56.2.2 read()

```
int com.radaee.util.PDFAssetStream.read (
    byte[] data )
```

read data from stream

Parameters

<i>data</i>	output values.
-------------	----------------

Returns

bytes read

Implements [com.radaee.pdf.Document.PDFStream](#).

3.56.2.3 seek()

```
void com.radaee.util.PDFAssetStream.seek (
    int pos )
```

seek to position

Parameters

<i>pos</i>	position from begin of the stream
------------	-----------------------------------

Implements [com.radaee.pdf.Document.PDFStream](#).

3.56.2.4 tell()

```
int com.radaee.util.PDFAssetStream.tell ( )
```

tell current position

Returns

position from begin of the stream

Implements [com.radaee.pdf.Document.PDFStream](#).

3.56.2.5 write()

```
int com.radaee.util.PDFAssetStream.write (
    byte[] data )
```

write data to stream

Parameters

<i>data</i>	data to write
-------------	---------------

Returns

bytes written

Implements [com.radaee.pdf.Document.PDFStream](#).

3.56.2.6 writeable()

```
boolean com.radaee.util.PDFAssetStream.writeable ( )
```

check whether the stream is writable

Returns

true or false

Implements [com.radaee.pdf.Document.PDFStream](#).

The documentation for this class was generated from the following file:

- PDFAssetStream.java

3.57 com.radaee.reader.PDFBotBar Class Reference

Public Member Functions

- final View **BarGetView** ()
- final void **BarShow** ()
- final void **BarHide** ()
- final boolean **BarIsHide** ()

The documentation for this class was generated from the following file:

- PDFBotBar.java

3.58 com.radaee.view.PDFViewDual.PDFCell Class Reference

Public Attributes

- int **left**
- int **right**
- int **page_left**
- int **page_right**

The documentation for this class was generated from the following file:

- PDFViewDual.java

3.59 com.radaee.util.RadaeePluginCallback.PDFControllerListener Interface Reference

Public Member Functions

- int **onGetPageCount** ()
- void **onSetIconsBGColor** (int color)
- void **onSetToolBarBGColor** (int color)
- void **onSetImmersive** (boolean immersive)
- String **onGetPageText** (int pageno)
- String **onGetJsonFormFields** ()
- String **onGetJsonFormFieldsAtPage** (int pageno)
- String **onSetFormFieldsWithJSON** (String json)
- boolean **onAddAnnotAttachment** (String attachmentPath)
- boolean **onEncryptDocAs** (String dst, String upswd, String opswd, int perm, int method, byte[] id)
- String **renderAnnotToFile** (int page, int annotIndex, String renderPath, int bitmapWidth, int bitmapHeight)
- boolean **flatAnnotAtPage** (int page)
- boolean **flatAnnots** ()
- boolean **saveDocumentToPath** (String path, String pswd)
- String **onGetTextAnnotationDetails** (int page)
- String **onGetMarkupAnnotationDetails** (int page)
- int **onGetCharIndex** (int page, float x, float y)
- void **onAddTextAnnotation** (int page, float x, float y, String text, String subject)
- void **onAddMarkupAnnotation** (int page, int type, int index1, int index2)
- String **onGetPDFCoordinates** (int x, int y)
- String **onGetScreenCoordinates** (int pageno, float x, float y)
- String **onGetScreenRect** (int pageno, float left, float top, float right, float bottom)
- String **onGetPDFRect** (int left, int top, int right, int bottom)

3.59.1 Detailed Description

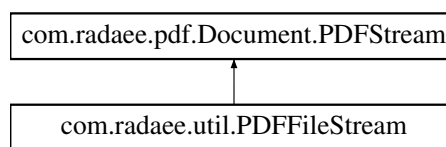
Interface to help pass events to the PDFViewController

The documentation for this interface was generated from the following file:

- RadaeePluginCallback.java

3.60 com.radaee.util.PDFFileStream Class Reference

Inheritance diagram for com.radaee.util.PDFFileStream:



Public Member Functions

- boolean **open** (String path)
- void **close** ()
- boolean **writable** ()
- int **get_size** ()
- int **read** (byte[] data)
- int **write** (byte[] data)
- void **seek** (int pos)
- int **tell** ()

Protected Member Functions

- void **finalize** () throws Throwable

3.60.1 Detailed Description

File stream, an implement class for PDFStream, which used in [Document.OpenStream](#)

Author

radaee

3.60.2 Member Function Documentation

3.60.2.1 get_size()

```
int com.radaee.util.PDFFileStream.get_size ( )
```

get stream length.

Returns

Implements [com.radaee.pdf.Document.PDFStream](#).

3.60.2.2 read()

```
int com.radaee.util.PDFFileStream.read (
    byte[] data )
```

read data from stream

Parameters

<i>data</i>	output values.
-------------	----------------

Returns

bytes read

Implements [com.radaee.pdf.Document.PDFStream](#).

3.60.2.3 seek()

```
void com.radaee.util.PDFFileStream.seek (
    int pos )
```

seek to position

Parameters

<i>pos</i>	position from begin of the stream
------------	-----------------------------------

Implements [com.radaee.pdf.Document.PDFStream](#).

3.60.2.4 tell()

```
int com.radaee.util.PDFFileStream.tell ( )
```

tell current position

Returns

position from begin of the stream

Implements [com.radaee.pdf.Document.PDFStream](#).

3.60.2.5 write()

```
int com.radaee.util.PDFFileStream.write (
    byte[] data )
```

write data to stream

Parameters

<i>data</i>	data to write
-------------	---------------

Returns

bytes written

Implements [com.radaee.pdf.Document.PDFStream](#).

3.60.2.6 writeable()

```
boolean com.radaee.util.PDFFileStream.writeable ( )
```

check whether the stream is writable

Returns

true or false

Implements [com.radaee.pdf.Document.PDFStream](#).

The documentation for this class was generated from the following file:

- PDFFileStream.java

3.61 com.radaee.pdf.Document.PDFFontDelegate Interface Reference

Public Member Functions

- String [GetExtFont](#) (String collection, String fname, int flag, int[] ret_flags)

3.61.1 Member Function Documentation

3.61.1.1 GetExtFont()

```
String com.radaee.pdf.Document.PDFFontDelegate.GetExtFont (
    String collection,
    String fname,
    int flag,
    int[] ret_flags )
```

font delegate, invoked when the Font not found in FontList.g

Parameters

<i>collection</i>	like: "", "GB1", "CNS1", and so on.
<i>fname</i>	font name that not found in native library.
<i>flag</i>	flag&1 means fixed width font, flag&2 means vertical writing.
<i>ret_flags</i>	1 element int array for output values: (ret_flag[0]>>8) is the index of face in Font File(TTC file may has many faces, TTF file just pass 0). (ret_flag[0]&1) tell native library to apply bold effect by program. (ret_flag[0]&2) tell native library to apply italic effect by program.

Returns

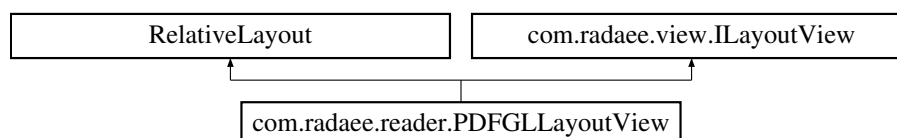
full path name to font file, or null if using native default font.

The documentation for this interface was generated from the following file:

- Document.java

3.62 com.radaee.reader.PDFGLLayoutView Class Reference

Inheritance diagram for com.radaee.reader.PDFGLLayoutView:



Public Member Functions

- **PDFGLLayoutView** (Context context)
- **PDFGLLayoutView** (Context context, AttributeSet attrs)
- void **PDFOpen** ([Document](#) doc, [ILayoutView.PDFLayoutListener](#) listener)
- void **PDFSetView** (int vmode)
- int **PDFGetView** ()
- void **PDFCloseOnUI** ()
- void **PDFClose** ()
- void **PDFSetInk** (int code)
- void **PDFSetPolygon** (int code)
- void **PDFSetPolyline** (int code)
- void **PDFSetRect** (int code)
- void **PDFSetEllipse** (int code)
- void **PDFSetSelect** ()
- void **PDFSetNote** (int code)
- void **PDFSetLine** (int code)
- void **PDFSetStamp** (int code)
- void **PDFSetEditbox** (int code)
- boolean **PDFSetAttachment** (String attachmentPath)
- void **PDFCancelAnnot** ()
- void **PDFRemoveAnnot** ()
- void **PDFEndAnnot** ()
- void **PDFEditAnnot** ()
- void **PDFPerformAnnot** ()
- final void **PDFFindStart** (String key, boolean match_case, boolean whole_word)
- final void **PDFFind** (int dir)
- void **PDFFindEnd** ()
- boolean **PDFSetSelMarkup** (int type)
- [Document](#) **PDFGetDoc** ()
- void **BundleSavePos** (Bundle bundle)
- void **BundleRestorePos** (Bundle bundle)
- void **PDFGotoPage** (int pageno)
- void **PDFScrolltoPage** (int pageno)
- void **PDFUndo** ()
- void **PDFRedo** ()
- boolean **PDFCanSave** ()
- boolean **PDFSave** ()
- void **PDFUpdatePage** (int pageno)
- void **PDFSetBGColor** (int color)
- int **GetScreenX** (float pdfX, int pageno)
- int **GetScreenY** (float pdfY, int pageno)
- float[] **toPDFRect** (float[] viewRect)
- void **setReadOnly** (boolean readonly)
- void **PDFSaveView** ()
- void **PDFRestoreView** ()
- final [GLLayout.PDFPos](#) **PDFGetPos** (int x, int y)

3.62.1 Member Function Documentation

3.62.1.1 BundleRestorePos()

```
void com.radaee.reader.PDFGLLayoutView.BundleRestorePos (
    Bundle bundle )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.2 BundleSavePos()

```
void com.radaee.reader.PDFGLLayoutView.BundleSavePos (
    Bundle bundle )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.3 GetScreenX()

```
int com.radaee.reader.PDFGLLayoutView.GetScreenX (
    float pdfX,
    int pageno )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.4 GetScreenY()

```
int com.radaee.reader.PDFGLLayoutView.GetScreenY (
    float pdfY,
    int pageno )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.5 PDFCancelAnnot()

```
void com.radaee.reader.PDFGLLayoutView.PDFCancelAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.6 PDFCanSave()

```
boolean com.radaee.reader.PDFGLLayoutView.PDFCanSave ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.7 PDFClose()

```
void com.radaee.reader.PDFGLLayoutView.PDFClose ( )
```

close reader.

Implements [com.radaee.view.ILayoutView](#).

3.62.1.8 PDFEditAnnot()

```
void com.radaee.reader.PDFGLLayoutView.PDFEditAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.9 PDFEndAnnot()

```
void com.radaee.reader.PDFGLLayoutView.PDFEndAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.10 PDFFind()

```
final void com.radaee.reader.PDFGLLayoutView.PDFFind (
    int dir )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.11 PDFFindEnd()

```
void com.radaee.reader.PDFGLLayoutView.PDFFindEnd ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.12 PDFFindStart()

```
final void com.radaee.reader.PDFGLLayoutView.PDFFindStart (
    String key,
    boolean match_case,
    boolean whole_word )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.13 PDFGetDoc()

[Document](#) com.radaee.reader.PDFGLLayoutView.PDFGetDoc ()

Implements [com.radaee.view.ILayoutView](#).

3.62.1.14 PDFGotoPage()

```
void com.radaee.reader.PDFGLLayoutView.PDFGotoPage (
    int pageno )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.15 PDFPerformAnnot()

```
void com.radaee.reader.PDFGLLayoutView.PDFPerformAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.16 PDFRedo()

```
void com.radaee.reader.PDFGLLayoutView.PDFRedo ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.17 PDFRemoveAnnot()

```
void com.radaee.reader.PDFGLLayoutView.PDFRemoveAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.18 PDFSave()

```
boolean com.radaee.reader.PDFGLLayoutView.PDFSave ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.19 PDFScrolltoPage()

```
void com.radaee.reader.PDFGLLayoutView.PDFScrolltoPage (
    int pageno )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.20 PDFSetAttachment()

```
boolean com.radaee.reader.PDFGLLayoutView.PDFSetAttachment (
    String attachmentPath )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.21 PDFSetEditbox()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetEditbox (
    int code )
```

set editbox status.

Parameters

<i>code</i>	0: set to Editbox status 1: end and confirm Editbox status 2: cancel Editbox status
-------------	---

Implements [com.radaee.view.ILayoutView](#).

3.62.1.22 PDFSetEllipse()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetEllipse (
    int code )
```

set Ellipse status.

Parameters

<i>code</i>	0: set to Ellipse status 1: end and confirm Ellipse status 2: cancel Ellipse status
-------------	---

Implements [com.radaee.view.ILayoutView](#).

3.62.1.23 PDFSetInk()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetInk (
    int code )
```

set Ink status.

Parameters

<i>code</i>	
	0: set to Ink status
	1: end and confirm Ink status
	2: cancel Ink status

Implements [com.radaee.view.ILayoutView](#).

3.62.1.24 PDFSetLine()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetLine (
    int code )
```

set Line status.

Parameters

<i>code</i>	
	0: set to Line status
	1: end and confirm Line status
	2: cancel Line status

Implements [com.radaee.view.ILayoutView](#).

3.62.1.25 PDFSetNote()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetNote (
    int code )
```

set Note status.

Parameters

<i>code</i>	
	0: set to Note status
	1: end and confirm Note status
	2: cancel Note status

Implements [com.radaee.view.ILayoutView](#).

3.62.1.26 PDFSetPolygon()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetPolygon (
    int code )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.27 PDFSetPolyline()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetPolyline (
    int code )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.28 PDFSetRect()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetRect (
    int code )
```

set Rect status.

Parameters

<i>code</i>	
	0: set to Rect status
	1: end and confirm Rect status
	2: cancel Rect status

Implements [com.radaee.view.ILayoutView](#).

3.62.1.29 PDFSetSelect()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetSelect ( )
```


set select status or end status.
 if current status is select status, set status to none.
 if current status is none status, set status to select.

Implements [com.radaee.view.ILayoutView](#).

3.62.1.30 PDFSetSelMarkup()

```
boolean com.radaee.reader.PDFGLLayoutView.PDFSetSelMarkup (
    int type )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.31 PDFSetStamp()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetStamp (
    int code )
```

set Stamp status.

Parameters

<i>code</i>	0: set to Stamp status 1: end and confirm Stamp status 2: cancel Stamp status
-------------	---

Implements [com.radaee.view.ILayoutView](#).

3.62.1.32 PDFSetView()

```
void com.radaee.reader.PDFGLLayoutView.PDFSetView (
    int vmode )
```

set view mode, it sam as Global.def_mode.

Parameters

<i>vmode</i>	view mode 0:vertical 1:horizon 2:curl effect(opengl only) 3:single 4:SingleEx 5:Reflow(opengl only) 6:show 2 page as 1 page in land scape mode
--------------	--

Implements [com.radaee.view.ILayoutView](#).

3.62.1.33 PDFUndo()

```
void com.radaee.reader.PDFGLLayoutView.PDFUndo ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.62.1.34 PDFUpdatePage()

```
void com.radaee.reader.PDFGLLayoutView.PDFUpdatePage (
    int pageno )
```

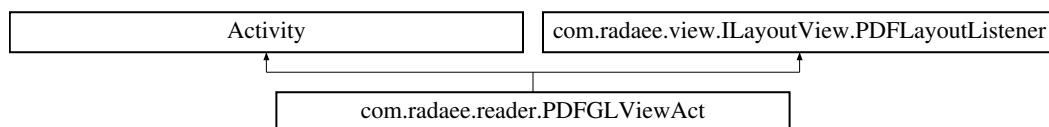
Implements [com.radaee.view.ILayoutView](#).

The documentation for this class was generated from the following file:

- PDFGLLayoutView.java

3.63 com.radaee.reader.PDFGLViewAct Class Reference

Inheritance diagram for com.radaee.reader.PDFGLViewAct:



Classes

- class **OpenTask**

Public Member Functions

- void **onCreate** (Bundle savedInstanceState)
- void **onConfigurationChanged** (Configuration newConfig)
- void **onResume** ()
- void **onSaveInstanceState** (Bundle savedInstanceState)
- void **onRestoreInstanceState** (Bundle savedInstanceState)
- void **onBackPressed** ()
- void **OnPDFPageModified** (int pageno)
- void **OnPDFPageChanged** (int pageno)
- void **OnPDFAnnotTapped** (int pageno, Annotation annot)
- void **OnPDFBlankTapped** (int pageno)
- void **OnPDFSelectEnd** (String text)
- void **OnPDFOpenURI** (String uri)
- void **OnPDFOpenJS** (String js)
- void **OnPDFOpenMovie** (String path)
- void **OnPDFOpenSound** (int[] paras, String path)
- void **OnPDFOpenAttachment** (String path)
- void **OnPDFOpen3D** (String path)
- void **OnPDFZoomStart** ()
- void **OnPDFZoomEnd** ()
- boolean **OnPDFDoubleTapped** (int pageno, float x, float y)
- void **OnPDFLongPressed** (int pageno, float x, float y)
- void **OnPDFSearchFinished** (boolean found)
- void **OnPDFPageDisplayed** (Canvas canvas, ILayoutView.IVPage vpage)
- void **OnPDFPageRendered** (ILayoutView.IVPage vpage)

Static Public Member Functions

- static int **getFileState** ()

Protected Member Functions

- void **onActivityResult** (int requestCode, int resultCode, Intent data)
- void **onPause** ()
- void **onDestroy** ()

Static Protected Attributes

- static Document **ms_tran_doc**
- static String **ms_tran_path**

3.63.1 Member Function Documentation

3.63.1.1 getFileState()

```
static int com.radaee.reader.PDFGLViewAct.getFileState ( ) [static]
```

To get the current file state.

Returns

a string that contains one of the following values: Not modified Modified but not saved Modified and saved

3.63.1.2 OnPDFAnnotTapped()

```
void com.radaee.reader.PDFGLViewAct.OnPDFAnnotTapped (
    int pno,
    Annotation annot )
```

call when annotation tapped.

Parameters

<i>pno</i>	
<i>annot</i>	

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.3 OnPDFBlankTapped()

```
void com.radaee.reader.PDFGLViewAct.OnPDFBlankTapped (
    int pagebo )
```

call when blank tapped on page, this mean not annotation tapped.

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.4 OnPDFDoubleTapped()

```
boolean com.radaee.reader.PDFGLViewAct.OnPDFDoubleTapped (
    int pageno,
    float x,
    float y )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.5 OnPDFLongPressed()

```
void com.radaee.reader.PDFGLViewAct.OnPDFLongPressed (
    int pageno,
    float x,
    float y )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.6 OnPDFOpen3D()

```
void com.radaee.reader.PDFGLViewAct.OnPDFOpen3D (
    String path )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.7 OnPDFOpenAttachment()

```
void com.radaee.reader.PDFGLViewAct.OnPDFOpenAttachment (
    String path )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.8 OnPDFOpenJS()

```
void com.radaee.reader.PDFGLViewAct.OnPDFOpenJS (
    String js )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.9 OnPDFOpenMovie()

```
void com.radaee.reader.PDFGLViewAct.OnPDFOpenMovie (
    String path )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.10 OnPDFOpenSound()

```
void com.radaee.reader.PDFGLViewAct.OnPDFOpenSound (
    int[] paras,
    String path )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.11 OnPDFOpenURI()

```
void com.radaee.reader.PDFGLViewAct.OnPDFOpenURI (
    String uri )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.12 OnPDFPageChanged()

```
void com.radaee.reader.PDFGLViewAct.OnPDFPageChanged (
    int pageno )
```

call when page scrolling.

Parameters

<i>pageno</i>	
---------------	--

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.13 OnPDFPageDisplayed()

```
void com.radaee.reader.PDFGLViewAct.OnPDFPageDisplayed (
    Canvas canvas,
    ILayoutView.IVPage vpage )
```

call when page displayed on screen.

Parameters

<i>canvas</i>	
<i>vpage</i>	

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.14 OnPDFPageModified()

```
void com.radaee.reader.PDFGLViewAct.OnPDFPageModified (
    int pageno )
```

call when page changed.

Parameters

<i>pageno</i>	
---------------	--

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.15 OnPDFPageRendered()

```
void com.radaee.reader.PDFGLViewAct.OnPDFPageRendered (
    ILayoutView.IVPage vpage )
```

call when page is rendered by backing thread.

Parameters

<i>vpag</i> e	
---------------	--

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.16 OnPDFSearchFinished()

```
void com.radaee.reader.PDFGLViewAct.OnPDFSearchFinished (
    boolean found )
```

call when search finished. each search shall call back each time.

Parameters

<i>found</i>	
--------------	--

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.17 OnPDFSelectEnd()

```
void com.radaee.reader.PDFGLViewAct.OnPDFSelectEnd (
    String text )
```

call select status end.

Parameters

<i>text</i>	selected text string
-------------	----------------------

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.18 OnPDFZoomEnd()

```
void com.radaee.reader.PDFGLViewAct.OnPDFZoomEnd ( )
```

call when zoom end

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.63.1.19 OnPDFZoomStart()

```
void com.radaee.reader.PDFGLViewAct.OnPDFZoomStart ( )
```

call when zoom start.

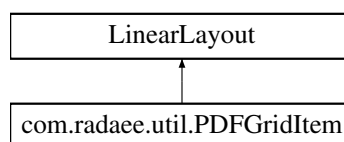
Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

The documentation for this class was generated from the following file:

- PDFGLViewAct.java

3.64 com.radaee.util.PDFGridItem Class Reference

Inheritance diagram for com.radaee.util.PDFGridItem:



Public Member Functions

- **PDFGridItem** (Context context, AttributeSet attrs)
- int **open_doc** ([Document](#) doc, String password)
- boolean **is_dir** ()
- String **get_name** ()
- String **get_path** ()

Protected Member Functions

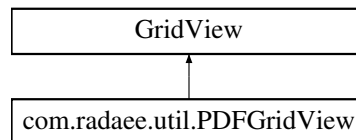
- synchronized void **page_set** ()
- synchronized void **page_destroy** ()
- void **set_dir** (String name, String path)
- void **set_file** (PDFGridView.PDFGridThread thread, String name, String path)
- boolean **render** ()

The documentation for this class was generated from the following file:

- PDFGridItem.java

3.65 com.radaee.util.PDFGridView Class Reference

Inheritance diagram for com.radaee.util.PDFGridView:



Classes

- class **PDFGridAdt**
- class **PDFGridThread**
- class **SnatchItem**

Public Member Functions

- **PDFGridView** (Context context, AttributeSet attrs)
- void **PDFSetRootPath** (String path)
- void **PDFGotoSubdir** (String name)
- void **close** ()
- String **getPath** ()
- void **onConfigurationChanged** (Configuration newConfig)

Protected Member Functions

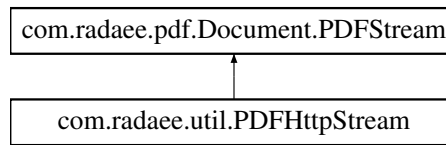
- void **finalize** () throws Throwable

The documentation for this class was generated from the following file:

- PDFGridView.java

3.66 com.radaee.util.PDFHttpStream Class Reference

Inheritance diagram for com.radaee.util.PDFHttpStream:



Classes

- class [HttpDownloadThread](#)
- class [HttpThread](#)

Public Member Functions

- boolean [open](#) (String url)
- void [close](#) ()
- boolean [writeable](#) ()
- int [get_size](#) ()
- int [read](#) (byte[] data)
- int [write](#) (byte[] data)
- void [seek](#) (int pos)
- int [tell](#) ()

Protected Member Functions

- void [finalize](#) () throws Throwable

3.66.1 Detailed Description

a class for HttpURLConnection.

the class read PDF file in remote way, this class not support write back to server.

the server must support Http header "Range" for request, and "content-length" for response.

and this class need Internet access right to run.

Author

radaee

3.66.2 Member Function Documentation

3.66.2.1 close()

```
void com.radaee.util.PDFHttpStream.close ( )
```

free resources.

this method is needed when APP close the PDF.

3.66.2.2 get_size()

```
int com.radaee.util.PDFHttpStream.get_size ( )
```

get stream length.

Returns

Implements [com.radaee.pdf.Document.PDFStream](#).

3.66.2.3 open()

```
boolean com.radaee.util.PDFHttpStream.open (
    String url )
```

open an url as stream

Parameters

<i>url</i>	url address.
------------	--------------

Returns

true or false.

3.66.2.4 read()

```
int com.radaee.util.PDFHttpStream.read (
    byte[] data )
```

read data from stream

Parameters

<i>data</i>	output values.
-------------	----------------

Returns

bytes read

Implements [com.radaee.pdf.Document.PDFStream](#).

3.66.2.5 seek()

```
void com.radaee.util.PDFHttpStream.seek (
    int pos )
```

seek to position

Parameters

<i>pos</i>	position from begin of the stream
------------	-----------------------------------

Implements [com.radaee.pdf.Document.PDFStream](#).

3.66.2.6 tell()

```
int com.radaee.util.PDFHttpStream.tell ( )
```

tell current position

Returns

position from begin of the stream

Implements [com.radaee.pdf.Document.PDFStream](#).

3.66.2.7 write()

```
int com.radaee.util.PDFHttpStream.write (
    byte[] data )
```

write data to stream

Parameters

<i>data</i>	data to write
-------------	---------------

Returns

bytes written

Implements [com.radaee.pdf.Document.PDFStream](#).

3.66.2.8 writeable()

```
boolean com.radaee.util.PDFHttpStream.writeable ( )
```

check whether the stream is writable

Returns

true or false

Implements [com.radaee.pdf.Document.PDFStream](#).

The documentation for this class was generated from the following file:

- PDFHttpStream.java

3.67 com.radaee.pdf.Document.PDFJSDelegate Interface Reference

Public Member Functions

- void [OnConsole](#) (int cmd, String para)
- int [OnAlert](#) (int btn, String msg, String title)
- boolean [OnDocClose](#) ()
- String [OnTmpFile](#) ()
- void [OnUncaughtException](#) (int code, String msg)

3.67.1 Member Function Documentation

3.67.1.1 OnAlert()

```
int com.radaee.pdf.Document.PDFJSDelegate.OnAlert (
    int btn,
    String msg,
    String title )
```

show a alert dialog on screen.

Parameters

<i>btn</i>	buttons show on dialog. 0: OK 1: OK, Cancel 2: Yes, No 3: Yes, No, Cancel
<i>msg</i>	message to be show..
<i>title</i>	title to be show.

Returns

which button user clicked? values as below:
 1:OK
 2:Cancel
 3:No
 4:Yes

3.67.1.2 OnConsole()

```
void com.radaee.pdf.Document.PDFJSDelegate.OnConsole (
    int cmd,
    String para )
```

console command

Parameters

<i>cmd</i>	0: clear console. 1: hide console. 2: print line on sonsole. 3: show console.
<i>para</i>	only valid when cmd == 2;

3.67.1.3 OnDocClose()

```
boolean com.radaee.pdf.Document.PDFJSDelegate.OnDocClose ( )
```

callback when document closed.

Returns

true is the [Document](#) object need save, otherwise false.

3.67.1.4 OnTmpFile()

`String com.radaee.pdf.Document.PDFJSDelegate.OnTmpFile ( )`

generate a tmp file name that JS needed in background.

Returns

absolute path to temp path generated.

3.67.1.5 OnUncaughtException()

`void com.radaee.pdf.Document.PDFJSDelegate.OnUncaughtException (`
 `int code,`
 `String msg )`

callback when an Uncaught exception appears.

Parameters

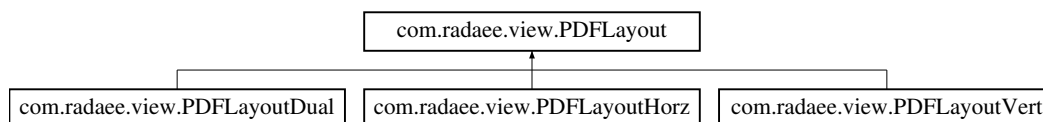
<i>code</i>	error code.
<i>msg</i>	error message.

The documentation for this interface was generated from the following file:

- Document.java

3.68 com.radaee.view.PDFLayout Class Reference

Inheritance diagram for com.radaee.view.PDFLayout:



Classes

- interface [LayoutListener](#)
- class **PDFPos**

Public Member Functions

- void **vResize** (int cx, int cy)
- final void **vScrollAbort** ()
- final boolean **vScrollCompute** ()
- void **vDraw** (Canvas canvas, boolean zooming)
- final boolean **vRenderFinished** ()
- void **vRenderSync** (VPage page)
- void **vRenderAsync** (VPage page)
- abstract void **vLayout** ()
- abstract int **vGetPage** (int vx, int vy)
- final VPage **vGetPage** (int pageno)
- PDFPos **vGetPos** (int vx, int vy)
- void **vSetPos** (int vx, int vy, PDFPos pos)
- void **vGotoPage** (int pageno)
- void **vScrolltoPage** (int pageno)
- void **vMoveEnd** ()
- void **vZoomStart** ()
- boolean **vZoomEnd** ()
- void **vZoomConfirmed** ()
- void **vOpen** (Document doc, LayoutListener listener)
- void **vClose** ()
- void **vSetBackColor** (int color)
- void **vSetPageGap** (int gap)
- void **vSetBmpFormat** (Config format)
- final float **vGetZoom** ()
- void **vZoomSet** (int vx, int vy, PDFPos pos, float zoom)
- void **vFindStart** (String key, boolean match_case, boolean whole_word)
- void **vFindStart** (String key, boolean match_case, boolean whole_word, boolean skipBlank)
- int **vFind** (int dir)
- void **vFindEnd** ()
- final int **vGetX** ()
- void **vSetX** (int x)
- final int **vGetY** ()
- void **vSetY** (int y)
- boolean **vFling** (int holdx, int holdy, float dx, float dy, float vx, float vy)
- final int **vGetWidth** ()
- final int **vGetHeight** ()
- final int **vGetTWidth** ()
- final int **vGetTHeight** ()
- final float **vGetMinScale** ()
- final float **vGetScale** ()
- final float **vGetMaxScale** ()

Protected Member Functions

- PDFLayout (Context context)
- void **vFindGoto** ()
- void **vFlushCacheRange** ()
- void **vFlushRange** ()
- void **finalize** () throws Throwable

Protected Attributes

- Config **m_bmp_format** = Config.ARGB_8888
- Bitmap **m_bmp** = null
- Document **m_doc** = null
- VPage[] **m_pages** = null
- VThread **m_thread** = null
- VFinder **m_finder** = null
- int **m_w** = 0
- int **m_h** = 0
- int **m_tw** = 0
- int **m_th** = 0
- float **m_scale** = 0
- float **m_scale_min** = 1
- float **m_scale_max** = 1
- float **m_zoom_level** = Global.g_layout_zoom_level
- float **m_zoom_level_clip** = Global.g_layout_zoom_clip
- int **m_disp_page1** = 0
- int **m_disp_page2** = 0
- int **m_cache_page1** = 0
- int **m_cache_page2** = 0
- int **m_page_gap** = 4
- int **m_back_color** = Global.readerViewBgColor
- float **m_page_maxw**
- float **m_page_maxh**
- LayoutListener **m_listener** = null
- Scroller **m_scroller** = null
- Handler **m_hand_ui**
- float[] **m_scales** = null
- float[] **m_scales_min** = null
- int **m_zoom_page0**
- int **m_zoom_page1**
- int **m_pageno** = -1

3.68.1 Member Function Documentation

3.68.1.1 vDraw()

```
void com.radaee.view.PDFLayout.vDraw (
    Canvas canvas,
    boolean zooming )
```

draw layout to canvas.

Parameters

<i>canvas</i>	canvas to draw.
<i>zooming</i>	zooming status.

3.68.1.2 vGetHeight()

```
final int com.radaee.view.PDFLayout.vGetHeight ( )
```

Returns

height of window

3.68.1.3 vGetTHeight()

```
final int com.radaee.view.PDFLayout.vGetTHeight ( )
```

Returns

total height of document in view

3.68.1.4 vGetTWidth()

```
final int com.radaee.view.PDFLayout.vGetTWidth ( )
```

Returns

total width of document in view

3.68.1.5 vGetWidth()

```
final int com.radaee.view.PDFLayout.vGetWidth ( )
```

Returns

width of window

3.68.1.6 vOpen()

```
void com.radaee.view.PDFLayout.vOpen (
    Document doc,
    LayoutListener listener )
```

Open View

Reimplemented in [com.radaee.view.PDFLayoutDual](#), and [com.radaee.view.PDFLayoutHorz](#).

3.68.1.7 vRenderAsync()

```
void com.radaee.view.PDFLayout.vRenderAsync (
    VPage page )
```

render page again, after page modified.

Parameters

<i>page</i>	page object obtained by <code>vGetPage()</code>
-------------	---

3.68.1.8 vResize()

```
void com.radaee.view.PDFLayout.vResize (
    int cx,
    int cy )
```

invoke when resize.

Parameters

<i>cx</i>	new width
<i>cy</i>	new height

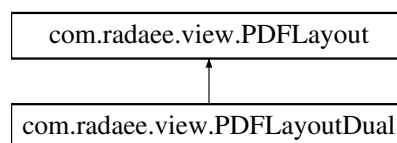
Reimplemented in [com.radaee.view.PDFLayoutHorz](#).

The documentation for this class was generated from the following file:

- PDFLayout.java

3.69 com.radaee.view.PDFLayoutDual Class Reference

Inheritance diagram for `com.radaee.view.PDFLayoutDual`:

**Classes**

- class **PDFCell**

Public Member Functions

- **PDFLayoutDual** (Context context)
- void **vOpen** ([Document](#) doc, [LayoutListener](#) listener)
- boolean **vFling** (int holdx, int holdy, float dx, float dy, float vx, float vy)
- void **vLayout** ()
- void **vClose** ()
- int **vGetPage** (int vx, int vy)
- void **vMoveEnd** ()
- void **vGotoPage** (int pageno)
- void **vScrolltoPage** (int pageno)
- void **vSetLayoutPara** (boolean[] verts, boolean[] horzs, boolean rtol, boolean pages_align_top)

Protected Member Functions

- void **do_scroll** (int x, int y, int dx, int dy)
- int **vGetCell** (int vx)

Protected Attributes

- PDFCell[] **m_cells**

3.69.1 Member Function Documentation

3.69.1.1 vClose()

```
void com.radaee.view.PDFLayoutDual.vClose ( )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.69.1.2 vFling()

```
boolean com.radaee.view.PDFLayoutDual.vFling (
    int holdx,
    int holdy,
    float dx,
    float dy,
    float vx,
    float vy )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.69.1.3 vGetPage()

```
int com.radaee.view.PDFLayoutDual.vGetPage (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.69.1.4 vGotoPage()

```
void com.radaee.view.PDFLayoutDual.vGotoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.69.1.5 vLayout()

```
void com.radaee.view.PDFLayoutDual.vLayout ( )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.69.1.6 vMoveEnd()

```
void com.radaee.view.PDFLayoutDual.vMoveEnd ( )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.69.1.7 vOpen()

```
void com.radaee.view.PDFLayoutDual.vOpen (
    Document doc,
    LayoutListener listener )
```

Open View

Reimplemented from [com.radaee.view.PDFLayout](#).

3.69.1.8 vScrolltoPage()

```
void com.radaee.view.PDFLayoutDual.vScrolltoPage (
    int pageno )
```

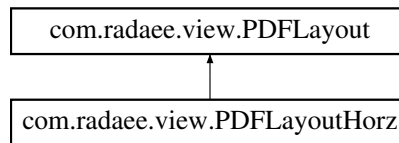
Reimplemented from [com.radaee.view.PDFLayout](#).

The documentation for this class was generated from the following file:

- PDFLayoutDual.java

3.70 com.radaee.view.PDFLayoutHorz Class Reference

Inheritance diagram for com.radaee.view.PDFLayoutHorz:



Public Member Functions

- **PDFLayoutHorz** (Context context)
- void **vOpen** ([Document](#) doc, [LayoutListener](#) listener)
- void **vResize** (int cx, int cy)
- void **vLayout** ()
- int **vGetPage** (int vx, int vy)

Additional Inherited Members

3.70.1 Member Function Documentation

3.70.1.1 vGetPage()

```
int com.radaee.view.PDFLayoutHorz.vGetPage (
    int vx,
    int vy )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.70.1.2 vLayout()

```
void com.radaee.view.PDFLayoutHorz.vLayout ( )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.70.1.3 vOpen()

```
void com.radaee.view.PDFLayoutHorz.vOpen (
    Document doc,
    LayoutListener listener )
```

Open View

Reimplemented from [com.radaee.view.PDFLayout](#).

3.70.1.4 vResize()

```
void com.radaee.view.PDFLayoutHorz.vResize (
    int cx,
    int cy )
```

invoke when resize.

Parameters

cx	new width
cy	new height

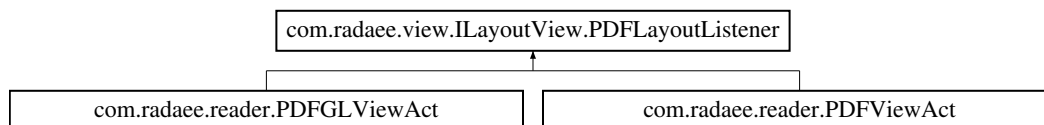
Reimplemented from [com.radaee.view.PDFLayout](#).

The documentation for this class was generated from the following file:

- PDFLayoutHorz.java

3.71 com.radaee.view.ILayoutView.PDFLayoutListener Interface Reference

Inheritance diagram for com.radaee.view.ILayoutView.PDFLayoutListener:



Public Member Functions

- void [OnPDFPageModified](#) (int pageno)
- void [OnPDFPageChanged](#) (int pageno)
- void [OnPDFAnnotTapped](#) (int pno, Page.Annotation annot)
- void [OnPDFBlankTapped](#) (int pagebo)
- void [OnPDFSelectEnd](#) (String text)
- void [OnPDFOpenURI](#) (String uri)
- void [OnPDFOpenJS](#) (String js)
- void [OnPDFOpenMovie](#) (String path)
- void [OnPDFOpenSound](#) (int[] paras, String path)
- void [OnPDFOpenAttachment](#) (String path)
- void [OnPDFOpen3D](#) (String path)
- void [OnPDFZoomStart](#) ()
- void [OnPDFZoomEnd](#) ()
- boolean [OnPDFDoubleTapped](#) (int pagebo, float x, float y)
- void [OnPDFLongPressed](#) (int pagebo, float x, float y)
- void [OnPDFSearchFinished](#) (boolean found)
- void [OnPDFPageDisplayed](#) (Canvas canvas, [IVPage](#) vpage)
- void [OnPDFPageRendered](#) ([IVPage](#) vpage)

3.71.1 Member Function Documentation

3.71.1.1 OnPDFAnnotTapped()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFAnnotTapped (
    int pno,
    Page.Annotation annot )
```

call when annotation tapped.

Parameters

<i>pno</i>	
<i>annot</i>	

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.2 OnPDFBlankTapped()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFBlankTapped (
    int pagebo )
```

call when blank tapped on page, this mean not annotation tapped.

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.3 OnPDFPageChanged()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFPageChanged (
    int pageno )
```

call when page scrolling.

Parameters

<i>pageno</i>	
---------------	--

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.4 OnPDFPageDisplayed()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFPageDisplayed (
    Canvas canvas,
    IVPPage vpage )
```

call when page displayed on screen.

Parameters

<i>canvas</i>	
<i>vpage</i>	

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.5 OnPDFPageModified()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFPageModified (
    int pageno )
```

call when page changed.

Parameters

<i>pageno</i>	
---------------	--

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.6 OnPDFPageRendered()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFPageRendered (
    IVPPage vpage )
```

call when page is rendered by backing thread.

Parameters

<i>vpage</i>	
--------------	--

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.7 OnPDFSearchFinished()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFSearchFinished (
```

```
boolean found )
```

call when search finished. each search shall call back each time.

Parameters

<i>found</i>	
--------------	--

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.8 OnPDFSelectEnd()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFSelectEnd (
    String text )
```

call select status end.

Parameters

<i>text</i>	selected text string
-------------	----------------------

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.9 OnPDFZoomEnd()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFZoomEnd ( )
```

call when zoom end

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

3.71.1.10 OnPDFZoomStart()

```
void com.radaee.view.ILayoutView.PDFLayoutListener.OnPDFZoomStart ( )
```

call when zoom start.

Implemented in [com.radaee.reader.PDFGLViewAct](#), and [com.radaee.reader.PDFViewAct](#).

The documentation for this interface was generated from the following file:

- ILayoutView.java

3.72 com.radaee.reader.PDFLayoutOPStack Class Reference

Public Member Functions

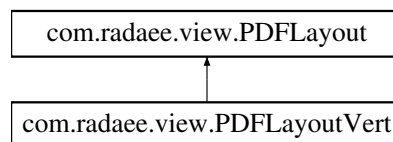
- void **push** (OPItem op)
- OPItem **undo** ()
- OPItem **redo** ()
- boolean **can_undo** ()
- boolean **can_redo** ()

The documentation for this class was generated from the following file:

- PDFLayoutOPStack.java

3.73 com.radaee.view.PDFLayoutVert Class Reference

Inheritance diagram for com.radaee.view.PDFLayoutVert:



Public Member Functions

- void **vLayout** ()
- **PDFLayoutVert** (Context context)
- int **vGetPage** (int vx, int vy)

Additional Inherited Members

3.73.1 Member Function Documentation

3.73.1.1 vGetPage()

```
int com.radaee.view.PDFLayoutVert.vGetPage (  
    int vx,  
    int vy )
```

Reimplemented from [com.radaee.view.PDFLayout](#).

3.73.1.2 vLayout()

`void com.radaee.view.PDFLayoutVert.vLayout ( )`

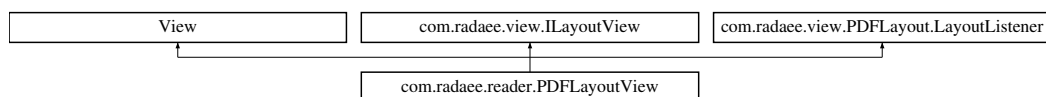
Reimplemented from [com.radaee.view.PDFLayout](#).

The documentation for this class was generated from the following file:

- PDFLayoutVert.java

3.74 com.radaee.reader.PDFLayoutView Class Reference

Inheritance diagram for `com.radaee.reader.PDFLayoutView`:



Classes

- class **PDFGestureListener**
- class **PDFVPageSet**

Public Member Functions

- **PDFLayoutView** (Context context)
- **PDFLayoutView** (Context context, AttributeSet attrs)
- boolean **onTouchEvent** (MotionEvent event)
- void **computeScroll** ()
- int **PDFGetView** ()
- void **PDFSetView** (int style)
- void **PDFSaveView** ()
- void **PDFRestoreView** ()
- void **PDFOpen** ([Document](#) doc, [ILayoutView.PDFLayoutListener](#) listener)
- void **setAnnotMenu** ([UIAnnotMenu](#) amenu)
- void **PDFSetBmpFormat** (Bitmap.Config format)
- void **PDFGotoPage** (int pageno)
- void **PDFScrollToPage** (int pageno)
- void **PDFCloseOnUI** ()
- void **PDFClose** ()
- boolean **PDFIsOpen** ()
- void **OnPageChanged** (int pageno)
- void **OnPageRendered** (int pageno)
- void **OnCacheRendered** (int pageno)
- void **OnFound** (boolean found)
- void **OnPageDisplayed** (Canvas canvas, [VPage](#) vpage)
- void **OnTimer** ()
- boolean **PDFSetAttachment** (String attachmentPath)
- void **PDFSetInk** (int code)

- void [PDFSetPolygon](#) (int code)
- void [PDFSetPolyline](#) (int code)
- void [PDFSetRect](#) (int code)
- void [PDFSetEllipse](#) (int code)
- void [PDFSetSelect](#) ()
- void [PDFSetNote](#) (int code)
- void [PDFSetLine](#) (int code)
- void [PDFSetStamp](#) (int code)
- void [PDFSetEditbox](#) (int code)
- void [PDFCancelAnnot](#) ()
- void [PDFRemoveAnnot](#) ()
- void [PDFEndAnnot](#) ()
- void [PDFEditAnnot](#) ()
- void [PDFPerformAnnot](#) ()
- final void [PDFFindStart](#) (String key, boolean match_case, boolean whole_word)
- final void **PDFFindStart** (String key, boolean match_case, boolean whole_word, boolean skipBlank)
- final void [PDFFind](#) (int dir)
- final void [PDFFindEnd](#) ()
- boolean [PDFSetSelMarkup](#) (int type)
- final PDFPos **PDFGetPos** (int x, int y)
- final void **PDFSetPos** (PDFPos pos, int x, int y)
- void [BundleSavePos](#) (Bundle bundle)
- void [BundleRestorePos](#) (Bundle bundle)
- final Document [PDFGetDoc](#) ()
- final boolean [PDFCanSave](#) ()
- boolean [PDFSave](#) ()
- void [PDFUndo](#) ()
- void [PDFRedo](#) ()
- float **PDFGetScale** ()
- float **PDFGetMinScale** ()
- float **PDFGetX** ()
- float **PDFGetY** ()
- void [PDFUpdatePage](#) (int pageno)
- void **setReadOnly** (boolean readonly)
- void **PDFSetZoom** (int vx, int vy, PDFPos pos, float zoom)
- float **PDFGetZoom** ()
- float[] **toPDFRect** (float[] viewRect)
- int [GetScreenX](#) (float pdfX, int pageno)
- int [GetScreenY](#) (float pdfY, int pageno)

Protected Member Functions

- void **onSizeChanged** (int w, int h, int oldw, int oldh)
- void [onDraw](#) (Canvas canvas)
- void **finalize** () throws Throwable

Protected Attributes

- Bitmap.Config **m_bmp_format** = Bitmap.Config.ALPHA_8
- [PDFLayout](#) **m_layout**
- int **m_status** = STA_NONE
- PDFPos **m_goto_pos** = null
- GestureDetector **m_gesture**

Static Protected Attributes

- static final int **STA_NONE** = 0
- static final int **STA_ZOOM** = 1
- static final int **STA_SELECT** = 2
- static final int **STA_INK** = 3
- static final int **STA_RECT** = 4
- static final int **STA_ELLIPSE** = 5
- static final int **STA_NOTE** = 6
- static final int **STA_LINE** = 7
- static final int **STA_STAMP** = 8
- static final int **STA_EDITBOX** = 9
- static final int **STA_POLYGON** = 10
- static final int **STA_POLYLINE** = 11
- static final int **STA_ANNOT** = 100

3.74.1 Member Function Documentation

3.74.1.1 BundleRestorePos()

```
void com.radaee.reader.PDFLayoutView.BundleRestorePos (  
    Bundle bundle )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.2 BundleSavePos()

```
void com.radaee.reader.PDFLayoutView.BundleSavePos (  
    Bundle bundle )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.3 GetScreenX()

```
int com.radaee.reader.PDFLayoutView.GetScreenX (  
    float pdfX,  
    int pageno )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.4 GetScreenY()

```
int com.radaee.reader.PDFLayoutView.GetScreenY (
    float pdfY,
    int pageno )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.5 OnCacheRendered()

```
void com.radaee.reader.PDFLayoutView.OnCacheRendered (
    int pageno )
```

Implements [com.radaee.view.PDFLayout.LayoutListener](#).

3.74.1.6 onDraw()

```
void com.radaee.reader.PDFLayoutView.onDraw (
    Canvas canvas ) [protected]
```

the draw function invoke onDraw and then call dispatchDraw. so we override only to draw on Canvas to reduce drawing time.

Parameters

<i>canvas</i>	Canvas object
---------------	---------------

3.74.1.7 OnFound()

```
void com.radaee.reader.PDFLayoutView.OnFound (
    boolean found )
```

fired when searching end.

Parameters

<i>found</i>	true if found, otherwise pass false.
--------------	--------------------------------------

Implements [com.radaee.view.PDFLayout.LayoutListener](#).

3.74.1.8 OnPageChanged()

```
void com.radaee.reader.PDFLayoutView.OnPageChanged (
    int pageno )
```

fired when pageno changed.

Parameters

<i>pageno</i>	pageno.
---------------	---------

Implements [com.radaee.view.PDFLayout.LayoutListener](#).

3.74.1.9 OnPageDisplayed()

```
void com.radaee.reader.PDFLayoutView.OnPageDisplayed (
    Canvas canvas,
    VPage vpage )
```

fired when a page displayed.

Parameters

<i>canvas</i>	canvas to draw.
<i>vpage</i>	VPage object

Implements [com.radaee.view.PDFLayout.LayoutListener](#).

3.74.1.10 OnPageRendered()

```
void com.radaee.reader.PDFLayoutView.OnPageRendered (
    int pageno )
```

Implements [com.radaee.view.PDFLayout.LayoutListener](#).

3.74.1.11 OnTimer()

```
void com.radaee.reader.PDFLayoutView.OnTimer ( )
```

Implements [com.radaee.view.PDFLayout.LayoutListener](#).

3.74.1.12 PDFCancelAnnot()

```
void com.radaee.reader.PDFLayoutView.PDFCancelAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.13 PDFCanSave()

```
final boolean com.radaee.reader.PDFLayoutView.PDFCanSave ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.14 PDFClose()

```
void com.radaee.reader.PDFLayoutView.PDFClose ( )
```

close reader.

Implements [com.radaee.view.ILayoutView](#).

3.74.1.15 PDFEditAnnot()

```
void com.radaee.reader.PDFLayoutView.PDFEditAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.16 PDFEndAnnot()

```
void com.radaee.reader.PDFLayoutView.PDFEndAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.17 PDFFind()

```
final void com.radaee.reader.PDFLayoutView.PDFFind (
    int dir )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.18 PDFFindEnd()

```
final void com.radaee.reader.PDFLayoutView.PDFFindEnd ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.19 PDFFindStart()

```
final void com.radaee.reader.PDFLayoutView.PDFFindStart (
    String key,
    boolean match_case,
    boolean whole_word )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.20 PDFGetDoc()

```
final Document com.radaee.reader.PDFLayoutView.PDFGetDoc ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.21 PDFGotoPage()

```
void com.radaee.reader.PDFLayoutView.PDFGotoPage (
    int pageno )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.22 PDFPerformAnnot()

```
void com.radaee.reader.PDFLayoutView.PDFPerformAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.23 PDFRedo()

```
void com.radaee.reader.PDFLayoutView.PDFRedo ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.24 PDFRemoveAnnot()

```
void com.radaee.reader.PDFLayoutView.PDFRemoveAnnot ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.25 PDFSave()

```
boolean com.radaee.reader.PDFLayoutView.PDFSave ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.26 PDFScrolltoPage()

```
void com.radaee.reader.PDFLayoutView.PDFScrolltoPage (
    int pageno )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.27 PDFSetAttachment()

```
boolean com.radaee.reader.PDFLayoutView.PDFSetAttachment (
    String attachmentPath )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.28 PDFSetEditbox()

```
void com.radaee.reader.PDFLayoutView.PDFSetEditbox (
    int code )
```

set editbox status.

Parameters

<i>code</i>	
0:	set to Editbox status
1:	end and confirm Editbox status
2:	cancel Editbox status

Implements [com.radaee.view.ILayoutView](#).

3.74.1.29 PDFSetEllipse()

```
void com.radaee.reader.PDFLayoutView.PDFSetEllipse (
    int code )
```

set Ellipse status.

Parameters

<i>code</i>	
0:	set to Ellipse status
1:	end and confirm Ellipse status
2:	cancel Ellipse status

Implements [com.radaee.view.ILayoutView](#).

3.74.1.30 PDFSetInk()

```
void com.radaee.reader.PDFLayoutView.PDFSetInk (
    int code )
```

set Ink status.

Parameters

<i>code</i>	
0:	set to Ink status
1:	end and confirm Ink status
2:	cancel Ink status

Implements [com.radaee.view.ILayoutView](#).

3.74.1.31 PDFSetLine()

```
void com.radaee.reader.PDFLayoutView.PDFSetLine (
    int code )
```

set Line status.

Parameters

<i>code</i>	
0:	set to Line status
1:	end and confirm Line status
2:	cancel Line status

Implements [com.radaee.view.ILayoutView](#).

3.74.1.32 PDFSetNote()

```
void com.radaee.reader.PDFLayoutView.PDFSetNote (
    int code )
```

set Note status.

Parameters

<i>code</i>	
0:	set to Note status
1:	end and confirm Note status
2:	cancel Note status

Implements [com.radaee.view.ILayoutView](#).

3.74.1.33 PDFSetPolygon()

```
void com.radaee.reader.PDFLayoutView.PDFSetPolygon (
    int code )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.34 PDFSetPolyline()

```
void com.radaee.reader.PDFLayoutView.PDFSetPolyline (
    int code )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.35 PDFSetRect()

```
void com.radaee.reader.PDFLayoutView.PDFSetRect (
    int code )
```

set Rect status.

Parameters

<i>code</i>	0: set to Rect status 1: end and confirm Rect status 2: cancel Rect status
-------------	--

Implements [com.radaee.view.ILayoutView](#).

3.74.1.36 PDFSetSelect()

```
void com.radaee.reader.PDFLayoutView.PDFSetSelect ( )
```

set select status or end status.
if current status is select status, set status to none.
if current status is none status, set status to select.

Implements [com.radaee.view.ILayoutView](#).

3.74.1.37 PDFSetSelMarkup()

```
boolean com.radaee.reader.PDFLayoutView.PDFSetSelMarkup (
    int type )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.38 PDFSetStamp()

```
void com.radaee.reader.PDFLayoutView.PDFSetStamp (
    int code )
```

set Stamp status.

Parameters

<i>code</i>	0: set to Stamp status 1: end and confirm Stamp status 2: cancel Stamp status
-------------	---

Implements [com.radaee.view.ILayoutView](#).

3.74.1.39 PDFSetView()

```
void com.radaee.reader.PDFLayoutView.PDFSetView (
    int vmode )
```

set view mode, it sam as Global.def_mode.

Parameters

<i>vmode</i>	view mode 0:vertical 1:horizon 2:curl effect(opengl only) 3:single 4:SingleEx 5:Reflow(opengl only) 6:show 2 page as 1 page in land scape mode
--------------	--

Implements [com.radaee.view.ILayoutView](#).

3.74.1.40 PDFUndo()

```
void com.radaee.reader.PDFLayoutView.PDFUndo ( )
```

Implements [com.radaee.view.ILayoutView](#).

3.74.1.41 PDFUpdatePage()

```
void com.radaee.reader.PDFLayoutView.PDFUpdatePage (
    int pageno )
```

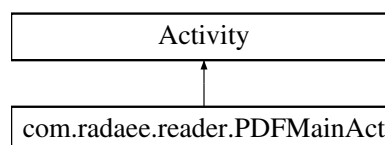
Implements [com.radaee.view.ILayoutView](#).

The documentation for this class was generated from the following file:

- PDFLayoutView.java

3.75 com.radaee.reader.PDFMainAct Class Reference

Inheritance diagram for com.radaee.reader.PDFMainAct:



Classes

- class **OpenTaskFile**
- class **OpenTaskGrid**
- class **OpenTaskRecent**

Public Member Functions

- void **onBackPressed** ()

Protected Member Functions

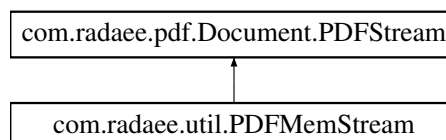
- void **onCreate** (Bundle savedInstanceState)
- void **onDestroy** ()
- void **onActivityResult** (int requestCode, int resultCode, Intent data)

The documentation for this class was generated from the following file:

- PDFMainAct.java

3.76 com.radaee.util.PDFMemStream Class Reference

Inheritance diagram for com.radaee.util.PDFMemStream:



Public Member Functions

- **PDFMemStream** (byte[] init_data)
- boolean **writable** ()
- byte[] **get_data** ()
- int **get_size** ()
- int **read** (byte[] data)
- int **write** (byte[] data)
- void **seek** (int pos)
- int **tell** ()

3.76.1 Member Function Documentation

3.76.1.1 get_data()

```
byte[] com.radaee.util.PDFMemStream.get_data ( )
```

Returns

byte array for data
do not use `byte[].length` to get size of stream, you shall invoke `get_size` method to get data length.

3.76.1.2 get_size()

```
int com.radaee.util.PDFMemStream.get_size ( )
```

get stream length.

Returns

Implements [com.radaee.pdf.Document.PDFStream](#).

3.76.1.3 read()

```
int com.radaee.util.PDFMemStream.read (
    byte[] data )
```

read data from stream

Parameters

<i>data</i>	output values.
-------------	----------------

Returns

bytes read

Implements [com.radaee.pdf.Document.PDFStream](#).

3.76.1.4 seek()

```
void com.radaee.util.PDFMemStream.seek (
    int pos )
```

seek to position

Parameters

<i>pos</i>	position from begin of the stream
------------	-----------------------------------

Implements [com.radaee.pdf.Document.PDFStream](#).

3.76.1.5 tell()

```
int com.radaee.util.PDFMemStream.tell ( )
```

tell current position

Returns

position from begin of the stream

Implements [com.radaee.pdf.Document.PDFStream](#).

3.76.1.6 write()

```
int com.radaee.util.PDFMemStream.write (
    byte[] data )
```

write data to stream

Parameters

<i>data</i>	data to write
-------------	---------------

Returns

bytes written

Implements [com.radaee.pdf.Document.PDFStream](#).

3.76.1.7 writeable()

```
boolean com.radaee.util.PDFMemStream.writeable ( )
```

check whether the stream is writable

Returns

true or false

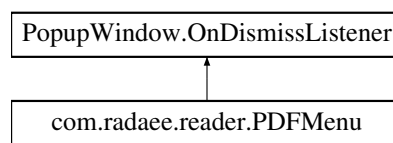
Implements [com.radaee.pdf.Document.PDFStream](#).

The documentation for this class was generated from the following file:

- PDFMemStream.java

3.77 com.radaee.reader.PDFMenu Class Reference

Inheritance diagram for com.radaee.reader.PDFMenu:



Public Member Functions

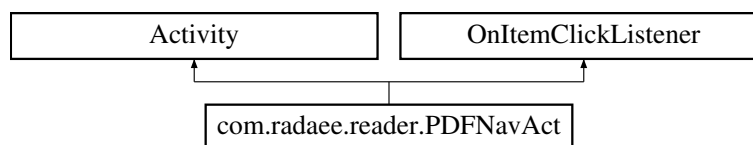
- void **onDismiss** ()

The documentation for this class was generated from the following file:

- PDFMenu.java

3.78 com.radaee.reader.PDFNavAct Class Reference

Inheritance diagram for com.radaee.reader.PDFNavAct:



Classes

- class **OpenTask**

Public Member Functions

- void **onCreate** (Bundle savedInstanceState)
- void **onConfigurationChanged** (Configuration newConfig)
- void **onItemClick** (AdapterView<?> arg0, View arg1, int arg2, long arg3)

Protected Member Functions

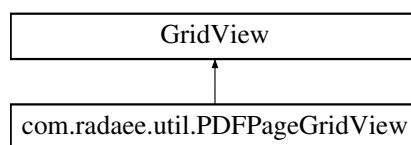
- void **onDestroy** ()

The documentation for this class was generated from the following file:

- PDFNavAct.java

3.79 com.radaee.util.PDFPageGridView Class Reference

Inheritance diagram for com.radaee.util.PDFPageGridView:



Classes

- class **PDFPageGridAdt**

Public Member Functions

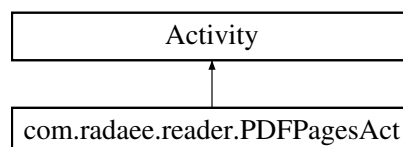
- **PDFPageGridView** (Context context)
- **PDFPageGridView** (Context context, AttributeSet attrs)
- void **PDFOpen** ([com.radaee.pdf.Document](#) doc)
- void **PDFClose** ()
- boolean[] **PDFGetRemoval** ()
- int[] **PDFGetRotate** ()
- boolean **PDFIsModified** ()

The documentation for this class was generated from the following file:

- PDFPageGridView.java

3.80 com.radaee.reader.PDFPagesAct Class Reference

Inheritance diagram for com.radaee.reader.PDFPagesAct:



Public Member Functions

- void **onCreate** (Bundle savedInstanceState)

Protected Member Functions

- void **onDestroy** ()

Static Protected Attributes

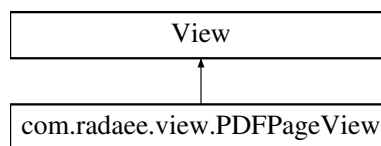
- static [Document](#) ms_tran_doc

The documentation for this class was generated from the following file:

- PDFPagesAct.java

3.81 com.radaee.view.PDFPageView Class Reference

Inheritance diagram for com.radaee.view.PDFPageView:



Classes

- interface [PageListener](#)
- class **PDFGestureListener**

Public Member Functions

- **PDFPageView** (Context context)
- **PDFPageView** (Context context, AttributeSet attrs)
- void **vOpen** ([VThread](#) thread, [VThread](#) thread_cache, [Document](#) doc, int pageno, int fit_type)
- boolean **vIsOpened** ()
- void **vFreeCache** ()
- void **vClose** ()
- final int **PDFGetPageNO** ()
- void **computeScroll** ()
- boolean **onTouchEvent** (MotionEvent event)
- boolean **vIsRenderFinish** ()
- void **vRenderFinish** ()

Protected Member Functions

- void **onSizeChanged** (int w, int h, int oldw, int oldh)
- void **onDraw** (Canvas canvas)
- void **finalize** () throws Throwable

Static Protected Attributes

- static final int **STA_NONE** = 0
- static final int **STA_ZOOM** = 1

3.81.1 Detailed Description

Created by radaee on 2015/3/13.

3.81.2 Member Function Documentation

3.81.2.1 vOpen()

```
void com.radaee.view.PDFPageView.vOpen (
    VThread thread,
    VThread thread_cache,
    Document doc,
    int pageno,
    int fit_type )
```

open page as single View.

Parameters

<i>thread</i>	
<i>thread_cache</i>	
<i>doc</i>	
<i>pageno</i>	
<i>fit_type</i>	0: fit screen. 1: fit width. 2: fit height.

The documentation for this class was generated from the following file:

- PDFPageView.java

3.82 com.radaee.view.PDFView.PDFPos Class Reference

Public Attributes

- int **pageno**

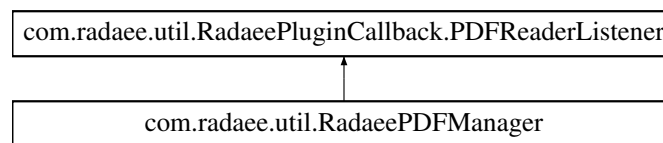
- float **x**
- float **y**

The documentation for this class was generated from the following file:

- PDFView.java

3.83 com.radaee.util.RadaeePluginCallback.PDFReaderListener Interface Reference

Inheritance diagram for com.radaee.util.RadaeePluginCallback.PDFReaderListener:



Public Member Functions

- void **willShowReader** ()
- void **didShowReader** ()
- void **willCloseReader** ()
- void **didCloseReader** ()
- void **didChangePage** (int pageno)
- void **didSearchTerm** (String query, boolean found)
- void **onBlankTapped** (int pageno)
- void **onAnnotTapped** (Page.Annotation annot)
- void **onDoubleTapped** (int pageno, float x, float y)
- void **onLongPressed** (int pageno, float x, float y)

3.83.1 Detailed Description

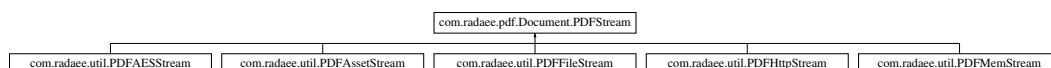
An interface that can help in recognizing some events.

The documentation for this interface was generated from the following file:

- RadaeePluginCallback.java

3.84 com.radaee.pdf.Document.PDFStream Interface Reference

Inheritance diagram for com.radaee.pdf.Document.PDFStream:



Public Member Functions

- boolean [writable](#) ()
- int [get_size](#) ()
- int [read](#) (byte[] data)
- int [write](#) (byte[] data)
- void [seek](#) (int pos)
- int [tell](#) ()

3.84.1 Member Function Documentation

3.84.1.1 [get_size\(\)](#)

```
int com.radaee.pdf.Document.PDFStream.get_size ( )
```

get stream length.

Returns

Implemented in [com.radaee.util.PDFAESStream](#), [com.radaee.util.PDFAssetStream](#), [com.radaee.util.PDFFileStream](#), [com.radaee.util.PDFHttpStream](#), and [com.radaee.util.PDFMemStream](#).

3.84.1.2 [read\(\)](#)

```
int com.radaee.pdf.Document.PDFStream.read (
    byte[] data )
```

read data from stream

Parameters

<i>data</i>	output values.
-------------	----------------

Returns

bytes read

Implemented in [com.radaee.util.PDFAESStream](#), [com.radaee.util.PDFAssetStream](#), [com.radaee.util.PDFFileStream](#), [com.radaee.util.PDFHttpStream](#), and [com.radaee.util.PDFMemStream](#).

3.84.1.3 seek()

```
void com.radaee.pdf.Document.PDFStream.seek (
    int pos )
```

seek to position

Parameters

<i>pos</i>	position from begin of the stream
------------	-----------------------------------

Implemented in [com.radaee.util.PDFAESStream](#), [com.radaee.util.PDFAssetStream](#), [com.radaee.util.PDFFileStream](#), [com.radaee.util.PDFHttpStream](#), and [com.radaee.util.PDFMemStream](#).

3.84.1.4 tell()

```
int com.radaee.pdf.Document.PDFStream.tell ( )
```

tell current position

Returns

position from begin of the stream

Implemented in [com.radaee.util.PDFAESStream](#), [com.radaee.util.PDFAssetStream](#), [com.radaee.util.PDFFileStream](#), [com.radaee.util.PDFHttpStream](#), and [com.radaee.util.PDFMemStream](#).

3.84.1.5 write()

```
int com.radaee.pdf.Document.PDFStream.write (
    byte[] data )
```

write data to stream

Parameters

<i>data</i>	data to write
-------------	---------------

Returns

bytes written

Implemented in [com.radaee.util.PDFAESStream](#), [com.radaee.util.PDFAssetStream](#), [com.radaee.util.PDFFileStream](#), [com.radaee.util.PDFHttpStream](#), and [com.radaee.util.PDFMemStream](#).

3.84.1.6 writeable()

```
boolean com.radaee.pdf.Document.PDFStream.writeable ( )
```

check whether the stream is writable

Returns

true or false

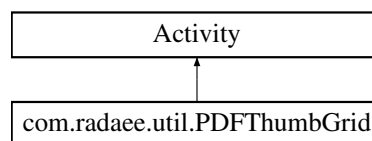
Implemented in [com.radaee.util.PDFAESStream](#), [com.radaee.util.PDFAssetStream](#), [com.radaee.util.PDFFileStream](#), [com.radaee.util.PDFHttpStream](#), and [com.radaee.util.PDFMemStream](#).

The documentation for this interface was generated from the following file:

- Document.java

3.85 com.radaee.util.PDFThumbGrid Class Reference

Inheritance diagram for com.radaee.util.PDFThumbGrid:



Static Public Attributes

- static [Document](#) mDoc

Protected Member Functions

- void **onCreate** (@Nullable Bundle savedInstanceState)

3.85.1 Detailed Description

Author

Nermeen created on 24/01/2017.

The documentation for this class was generated from the following file:

- PDFThumbGrid.java

3.86 com.radaee.util.RadaeePluginCallback.PDFThumbListener Interface Reference

Public Member Functions

- void **onPageClicked** (int pageno)

3.86.1 Detailed Description

An interface that recognizes the thumbnail grid page click event

The documentation for this interface was generated from the following file:

- RadaeePluginCallback.java

3.87 com.radaee.view.PDFViewThumb.PDFThumbListener Interface Reference

Public Member Functions

- void **OnPageClicked** (int pageno)

The documentation for this interface was generated from the following file:

- PDFViewThumb.java

3.88 com.radaee.util.PDFThumbView Class Reference

Inheritance diagram for com.radaee.util.PDFThumbView:



Public Member Functions

- **PDFThumbView** (Context context, AttributeSet attrs)
- void [OnPDFPageRendered](#) (int pageno)
- void [OnPDFPageChanged](#) (int pageno)
- boolean [OnPDFDoubleTapped](#) (float x, float y)
- boolean [OnPDFSingleTapped](#) (float x, float y)
- void [OnPDFLongPressed](#) (float x, float y)
- void [OnPDFShowPressed](#) (float x, float y)
- void [OnPDFSelectEnd](#) ()
- void [OnPDFFound](#) (boolean found)
- void [OnPDFInvalidate](#) (boolean post)
- void **computeScroll** ()
- boolean **onTouchEvent** (MotionEvent event)
- void **thumbOpen** ([Document](#) doc, [PDFThumbListener](#) listener, boolean isRTL)
- void **thumbOpen** ([Document](#) doc, [PDFThumbListener](#) listener, int thumbHeight, int orientation, int bgColor, int gap)
- void **thumbClose** ()
- void **thumbSave** ()
- void **thumbRestore** ()
- void [thumbGotoPage](#) (int pageno)
- void [thumbUpdatePage](#) (int pageno)
- void **thumbSetBmpFormat** (Bitmap.Config format)
- void [OnPDFPageDisplayed](#) (Canvas canvas, [PDFVPage](#) vpage)
- void [OnPDFSelecting](#) (Canvas canvas, int[] rect1, int[] rect2)
- void [OnPDFZoomStart](#) ()
- void [OnPDFZoomEnd](#) ()

Protected Member Functions

- void **onDraw** (Canvas canvas)
- void **onSizeChanged** (int w, int h, int oldw, int oldh)
- void **finalize** () throws Throwable

Protected Attributes

- [PDFViewThumb](#) m_thumb

3.88.1 Member Function Documentation

3.88.1.1 OnPDFDoubleTapped()

```
boolean com.radaee.util.PDFThumbView.OnPDFDoubleTapped (
    float x,
    float y )
```

fired when double tapped.

Parameters

<i>x</i>	x coordinate
<i>y</i>	y coordinate

Returns

true, if process it, or skipped.

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.2 OnPDFFound()

```
void com.radaee.util.PDFThumbView.OnPDFFound (
    boolean found )
```

fired when searching end.

Parameters

<i>found</i>	true if found, otherwise pass false.
--------------	--------------------------------------

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.3 OnPDFInvalidate()

```
void com.radaee.util.PDFThumbView.OnPDFInvalidate (
    boolean post )
```

notify to redraw the view

Parameters

<i>post</i>	whether post invalidate?
-------------	--------------------------

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.4 OnPDFLongPressed()

```
void com.radaee.util.PDFThumbView.OnPDFLongPressed (
    float x,
    float y )
```

fired when long pressed.

Parameters

<i>x</i>	x coordinate
<i>y</i>	y coordinate

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.5 OnPDFPageChanged()

```
void com.radaee.util.PDFThumbView.OnPDFPageChanged (
    int pageno )
```

fired when page changed.

Parameters

<i>pageno</i>	0 based pageno.
---------------	-----------------

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.6 OnPDFPageDisplayed()

```
void com.radaee.util.PDFThumbView.OnPDFPageDisplayed (
    Canvas canvas,
    PDFVPage vpage )
```

fired when a page displayed.

Parameters

<i>vpage</i>	
--------------	--

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.7 OnPDFPageRendered()

```
void com.radaee.util.PDFThumbView.OnPDFPageRendered (
    int pageno )
```

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.8 OnPDFSelectEnd()

```
void com.radaee.util.PDFThumbView.OnPDFSelectEnd ( )
```

fired when text selecting end.

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.9 OnPDFSelecting()

```
void com.radaee.util.PDFThumbView.OnPDFSelecting (
    Canvas canvas,
    int[] rect1,
    int[] rect2 )
```

fired when selecting.

Parameters

<i>canvas</i>	Canvas object to draw.
<i>rect1</i>	first char's location, in Canvas coordinate.
<i>rect2</i>	last char's location, in Canvas coordinate.

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.10 OnPDFShowPressed()

```
void com.radaee.util.PDFThumbView.OnPDFShowPressed (
    float x,
    float y )
```

fired when tapped without moving.

Parameters

<i>x</i>	x coordinate
<i>y</i>	y coordinate

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.11 OnPDFSingleTapped()

```
boolean com.radaee.util.PDFThumbView.OnPDFSingleTapped (
    float x,
    float y )
```

fired when single tapped.

Parameters

x	x coordinate
y	y coordinate

Returns

true, if process it, or skipped.

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.12 OnPDFZoomEnd()

```
void com.radaee.util.PDFThumbView.OnPDFZoomEnd ( )
```

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.13 OnPDFZoomStart()

```
void com.radaee.util.PDFThumbView.OnPDFZoomStart ( )
```

Implements [com.radaee.view.PDFView.PDFViewListener](#).

3.88.1.14 thumbGotoPage()

```
void com.radaee.util.PDFThumbView.thumbGotoPage (
    int pageno )
```

set selected page and goto the page

Parameters

<i>pageno</i>	
---------------	--

3.88.1.15 thumbUpdatePage()

```
void com.radaee.util.PDFThumbView.thumbUpdatePage (
    int pageno )
```


render a page again, after page is edited.

Parameters

<i>pageno</i>	
---------------	--

The documentation for this class was generated from the following file:

- PDFThumbView.java

3.89 com.radaee.reader.PDFTopBar Class Reference

Public Member Functions

- final View **BarGetView** ()
- final void **BarShow** ()
- final void **BarHide** ()
- final int **BarGetHeight** ()
- final void **BarSwitch** ([PDFTopBar](#) bar)

The documentation for this class was generated from the following file:

- PDFTopBar.java

3.90 com.radaee.view.PDFVCache Class Reference

Public Member Functions

- void **Render** ()

Protected Member Functions

- **PDFVCache** ([Document](#) doc, int pageno, float scale, int w, int h)
- final boolean **UIIsSame** (float scale, int w, int h)
- void **Clear** ()
- final void **UIRenderCancel** ()
- void **RenderThumb** ()
- void **finalize** () throws Throwable

Protected Attributes

- [Document](#) **m_doc**
- int **m_pageno**
- [Page](#) **m_page** = null
- float **m_scale** = 1
- [DIB](#) **m_dib** = null
- int **m_dibw** = 0
- int **m_dibh** = 0
- int **m_status** = 0

The documentation for this class was generated from the following file:

- PDFVCache.java

3.91 com.radaee.view.PDFVFinder Class Reference

Protected Member Functions

- void **find_start** ([Document](#) doc, int page_start, String str, boolean match_case, boolean whole)
- int **find_prepare** (int dir)
- int **find** ()
- float[] **find_get_pos** ()
- void **find_draw** ([BMP](#) bmp, [PDFVPage](#) page, int scrollx, int scrolly)
- void **find_draw_to_dib** ([DIB](#) dib, [PDFVPage](#) page, int scrollx, int scrolly)
- void **find_draw** (Canvas canvas, [PDFVPage](#) page, int scrollx, int scrolly)
- int **find_get_page** ()
- void **find_end** ()

3.91.1 Detailed Description

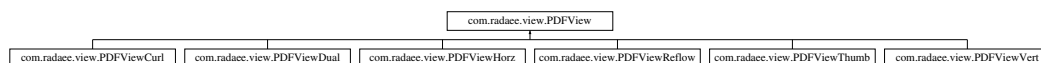
Inner class.
developer should not use this.

The documentation for this class was generated from the following file:

- PDFVFinder.java

3.92 com.radaee.view.PDFView Class Reference

Inheritance diagram for com.radaee.view.PDFView:



Classes

- class **PDFGestureListener**
- class [PDFPos](#)
- interface [PDFViewListener](#)

Public Member Functions

- **PDFView** (Context context)
- void **vSetBackColor** (int color)
- void **vSetPageGap** (int gap)
- void **vResize** (int w, int h)
- boolean **vMovingFinished** ()
- void **vComputeScroll** ()
- void **vDraw** (Canvas canvas)
- void **vOpen** ([Document](#) doc, int page_gap, int back_color, [PDFViewListener](#) listener)
- void **vSetBmpFormat** (Config format)
- void **vClose** ()
- boolean **vTouchEvent** (MotionEvent event)
- [PDFVPage](#) **vGetPage** (int pageno)
- [PDFPos](#) **vGetPos** (int vx, int vy)
- void **vSetPos** ([PDFPos](#) pos, int vx, int vy)
- void **vGotoPage** (int pageno)
- void **vSetScale** (float scale, float fx, float fy)
- float **vGetScale** ()
- float **vGetMinScale** ()
- float **vGetMaxScale** ()
- void **vRenderSync** ([PDFVPage](#) page)
- void **vRenderAsync** ([PDFVPage](#) page)
- void **vSetLock** (int lock)
- int **vGetLock** ()
- void **vSetSel** (float x1, float y1, float x2, float y2)
- String **vGetSel** ()
- void **vClearSel** ()
- void **vSetSelStatus** (boolean set)
- boolean **vSetSelMarkup** (int type)
- void **vFindStart** (String key, boolean match_case, boolean whole_word)
- int **vFind** (int dir)
- void **vFindEnd** ()
- void **vCenterPage** (int pageno)
- final int **vGetX** ()
- final int **vGetY** ()
- final int **vGetWinW** ()
- final int **vGetWinH** ()
- final int **vGetDocW** ()
- final int **vGetDocH** ()
- void **vSetX** (int x)
- void **vSetY** (int y)

Protected Member Functions

- void **vOnTimer** (Object obj)
- void **vFlushRange** ()
- void **vSingleTap** (float x, float y)
- boolean **motionNormal** (MotionEvent event)
- void **vLayout** ()
- int **vGetPage** (int vx, int vy)
- boolean **vOnFling** (float dx, float dy, float velocityX, float velocityY)
- void **vOnMoveEnd** (int x, int y)
- void **vOnZoomEnd** ()
- void **vFindGoto** ()
- void **finalize** () throws Throwable

Protected Attributes

- Config **m_bmp_format** = Config.ARGB_8888
- [Document](#) **m_doc** = null
- Scroller **m_scroller** = null
- int **m_w**
- int **m_h**
- int **m_docw**
- int **m_doch**
- int **m_lock** = 0
- Bitmap **m_bmp**
- [PDFVThread](#) **m_thread**
- [PDFVFinder](#) **m_finder**
- float **m_scale**
- float **m_scale_min**
- float **m_scale_max**
- int **m_page_gap** = 4
- [PDFVPage](#)[] **m_pages** = null
- int **m_back** = 0xFFCCCCC
- int **m_status** = STA_NONE
- boolean **m_drawbmp** = false
- [PDFViewListener](#) **m_listener** = null
- int **m_selx1**
- int **m_sely1**
- int **m_selx2**
- int **m_sely2**
- Handler **m_hand_ui**
- int **m_prange_start** = 0
- int **m_prange_end** = 0
- int **m_pageno** = -1
- [BMP](#) **m_draw_bmp** = new [BMP](#)()
- float **m_holdx**
- float **m_holdy**
- float **m_holdsx**
- float **m_holdsy**

Static Protected Attributes

- static final int **STA_NONE** = 0
- static final int **STA_MOVING** = 1
- static final int **STA_ZOOM** = 2
- static final int **STA_SELECT** = 3
- static final int **STA_CURLING** = 4

3.92.1 Member Function Documentation

3.92.1.1 vCenterPage()

```
void com.radaee.view.PDFView.vCenterPage (
    int pageno )
```

scroll and center the page.

Parameters

<i>pageno</i>	
---------------	--

Reimplemented in [com.radaee.view.PDFViewDual](#).

3.92.1.2 vGetLock()

```
int com.radaee.view.PDFView.vGetLock ( )
```

return lock status.

Returns

- 0: non-lock.
- 1: lock horizontal moving.
- 2: lock vertical moving.
- 3: lock moving.
- 4: lock resize.
- 5: lock zooming.

3.92.1.3 vGetPage()

```
PDFVPage com.radaee.view.PDFView.vGetPage (
    int pageno )
```

implement by derived class.

3.92.1.4 vGetPos()

```
PDFPos com.radaee.view.PDFView.vGetPos (
    int vx,
    int vy )
```

get Position from point in view coordinate, implement in derived class.
pass (0,0) to get position of left-top corner

Parameters

<i>vx</i>	
<i>vy</i>	

Returns

position in PDF coordinate.

Reimplemented in [com.radaee.view.PDFViewReflow](#).

3.92.1.5 vGetScale()

```
float com.radaee.view.PDFView.vGetScale ( )
```

get absolute scale value between [vGetMinScale, vGetMaxScale]

Returns

scale value

3.92.1.6 vLayout()

```
void com.radaee.view.PDFView.vLayout ( ) [protected]
```

implement by derived class.

Reimplemented in [com.radaee.view.PDFViewCurl](#), [com.radaee.view.PDFViewDual](#), [com.radaee.view.PDFViewHorz](#), [com.radaee.view.PDFViewReflow](#), [com.radaee.view.PDFViewThumb](#), and [com.radaee.view.PDFViewVert](#).

3.92.1.7 vRenderAsync()

```
void com.radaee.view.PDFView.vRenderAsync (
    PDFVPage page )
```

render page again, after page modified.

Parameters

<i>page</i>	page object obtained by vGetPage()
-------------	--

3.92.1.8 vSetLock()

```
void com.radaee.view.PDFView.vSetLock (
    int lock )
```

set locks

Parameters

<i>lock</i>	0: non-lock. 1: lock horizontal moving. 2: lock vertical moving. 3: lock moving. 4: lock resize. 5: lock zooming.
-------------	--

3.92.1.9 vSetPos()

```
void com.radaee.view.PDFView.vSetPos (
    PDFPos pos,
    int vx,
    int vy )
```

set Position to point in view coordinate, implement in derived class.
pass (0,0) to set position to left-top corner.

Parameters

<i>pos</i>	position in PDF coordinate.
<i>vx</i>	
<i>vy</i>	

Reimplemented in [com.radaee.view.PDFViewCurl](#), and [com.radaee.view.PDFViewReflow](#).

3.92.1.10 vSetScale()

```
void com.radaee.view.PDFView.vSetScale (
    float scale,
    float fx,
    float fy )
```

zoom operations

Parameters

<i>scale</i>	absolute scale value apply to View
<i>fx</i>	fixed point
<i>fy</i>	fixed point

3.92.1.11 vSetSelMarkup()

```
boolean com.radaee.view.PDFView.vSetSelMarkup (
    int type )
```

set current selected text as text-markup annotation.

Parameters

<i>type</i>	0:highlight 1:underline 2:strikeout
-------------	-------------------------------------

Returns

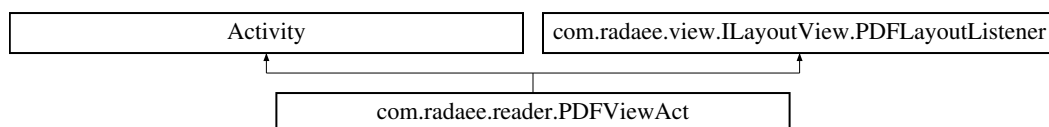
true or false

The documentation for this class was generated from the following file:

- PDFView.java

3.93 com.radaee.reader.PDFViewAct Class Reference

Inheritance diagram for com.radaee.reader.PDFViewAct:



Public Member Functions

- void **onCreate** (Bundle savedInstanceState)
- void **onConfigurationChanged** (Configuration newConfig)
- void **onResume** ()
- void **onSaveInstanceState** (Bundle savedInstanceState)
- void **onRestoreInstanceState** (Bundle savedInstanceState)
- void **onBackPressed** ()
- void **OnPDFPageModified** (int pageno)
- void **OnPDFPageChanged** (int pageno)
- void **OnPDFAnnotTapped** (int pageno, Annotation annot)
- void **OnPDFBlankTapped** (int pageno)
- void **OnPDFSelectEnd** (String text)
- void **OnPDFOpenURI** (String uri)
- void **OnPDFOpenJS** (String js)
- void **OnPDFOpenMovie** (String path)
- void **OnPDFOpenSound** (int[] paras, String path)
- void **OnPDFOpenAttachment** (String path)
- void **OnPDFOpen3D** (String path)
- void **OnPDFZoomStart** ()

- void [OnPDFZoomEnd](#) ()
- boolean [OnPDFDoubleTapped](#) (int pageno, float x, float y)
- void [OnPDFLongPressed](#) (int pageno, float x, float y)
- void [OnPDFPageRendered](#) (ILayoutView.IVPage vpage)
- void [OnPDFSearchFinished](#) (boolean found)
- void [OnPDFPageDisplayed](#) (Canvas canvas, ILayoutView.IVPage vpage)
- int [getCurrentPage](#) ()
- void [imageFromPage](#) (int index, float[] rect, float scale)

Static Public Member Functions

- static int [getFileState](#) ()

Static Public Attributes

- static [Document](#) [ms_tran_doc](#)
- static String [ms_tran_path](#)

Protected Member Functions

- void [onDestroy](#) ()
- void [onActivityResult](#) (int requestCode, int resultCode, Intent data)

3.93.1 Member Function Documentation

3.93.1.1 [getCurrentPage\(\)](#)

`int com.radaee.reader.PDFViewAct.getCurrentPage ( )`

returns current rendered page.

Returns

current rendered page, -1 otherwise

3.93.1.2 [getFileState\(\)](#)

`static int com.radaee.reader.PDFViewAct.getFileState ( ) [static]`

To get the current file state.

Returns

a string that contains one of the following values: Not modified Modified but not saved Modified and saved

3.93.1.3 [OnPDFAnnotTapped\(\)](#)

```
void com.radaee.reader.PDFViewAct.OnPDFAnnotTapped (
    int pno,
    Annotation annot )
```

call when annotation tapped.

Parameters

<i>pno</i>	
<i>annot</i>	

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.4 OnPDFBlankTapped()

```
void com.radaee.reader.PDFViewAct.OnPDFBlankTapped (
    int pagebo )
```

call when blank tapped on page, this mean not annotation tapped.

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.5 OnPDFDoubleTapped()

```
boolean com.radaee.reader.PDFViewAct.OnPDFDoubleTapped (
    int pageno,
    float x,
    float y )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.6 OnPDFLongPressed()

```
void com.radaee.reader.PDFViewAct.OnPDFLongPressed (
    int pageno,
    float x,
    float y )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.7 OnPDFOpen3D()

```
void com.radaee.reader.PDFViewAct.OnPDFOpen3D (
    String path )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.8 OnPDFOpenAttachment()

```
void com.radaee.reader.PDFViewAct.OnPDFOpenAttachment (
    String path )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.9 OnPDFOpenJS()

```
void com.radaee.reader.PDFViewAct.OnPDFOpenJS (
    String js )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.10 OnPDFOpenMovie()

```
void com.radaee.reader.PDFViewAct.OnPDFOpenMovie (
    String path )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.11 OnPDFOpenSound()

```
void com.radaee.reader.PDFViewAct.OnPDFOpenSound (
    int[] paras,
    String path )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.12 OnPDFOpenURI()

```
void com.radaee.reader.PDFViewAct.OnPDFOpenURI (
    String uri )
```

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.13 OnPDFPageChanged()

```
void com.radaee.reader.PDFViewAct.OnPDFPageChanged (
    int pageno )
```

call when page scrolling.

Parameters

<i>pageno</i>	
---------------	--

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.14 OnPDFPageDisplayed()

```
void com.radaee.reader.PDFViewAct.OnPDFPageDisplayed (
    Canvas canvas,
    ILayoutView.IVPage vpage )
```

call when page displayed on screen.

Parameters

<i>canvas</i>	
<i>vpage</i>	

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.15 OnPDFPageModified()

```
void com.radaee.reader.PDFViewAct.OnPDFPageModified (
    int pageno )
```

call when page changed.

Parameters

<i>pageno</i>	
---------------	--

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.16 OnPDFPageRendered()

```
void com.radaee.reader.PDFViewAct.OnPDFPageRendered (
    ILayoutView.IVPage vpage )
```

call when page is rendered by backing thread.

Parameters

<i>vpage</i>	
--------------	--

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.17 OnPDFSearchFinished()

```
void com.radaee.reader.PDFViewAct.OnPDFSearchFinished (
    boolean found )
```

call when search finished. each search shall call back each time.

Parameters

<i>found</i>	
--------------	--

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.18 OnPDFSelectEnd()

```
void com.radaee.reader.PDFViewAct.OnPDFSelectEnd (
    String text )
```

call select status end.

Parameters

<i>text</i>	selected text string
-------------	----------------------

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.19 OnPDFZoomEnd()

```
void com.radaee.reader.PDFViewAct.OnPDFZoomEnd ( )
```

call when zoom end

Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

3.93.1.20 OnPDFZoomStart()

```
void com.radaee.reader.PDFViewAct.OnPDFZoomStart ( )
```

call when zoom start.

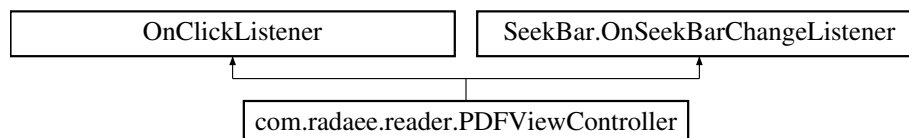
Implements [com.radaee.view.ILayoutView.PDFLayoutListener](#).

The documentation for this class was generated from the following file:

- PDFViewAct.java

3.94 com.radaee.reader.PDFViewController Class Reference

Inheritance diagram for com.radaee.reader.PDFViewController:



Public Member Functions

- **PDFViewController** (RelativeLayout parent, [ILayoutView](#) view, String docPath, boolean isAsset)
- [PDFThumbView](#) **GetThumbView** ()
- void **SetPagesListener** (OnClickListener listener)
- void **setNavigationMode** (int navigationMode)
- void **OnAnnotTapped** (int pageno, Annotation annot)
- void **OnBlankTapped** ()
- void **OnSelectEnd** ()
- void **onProgressChanged** (SeekBar arg0, int arg1, boolean arg2)
- void **onStartTrackingTouch** (SeekBar arg0)
- void **onStopTrackingTouch** (SeekBar arg0)
- void **OnPageChanged** (int pageno)
- void **onPageModified** (int pageno)
- void **onConfigChanged** ()
- boolean **OnBackPressed** ()
- void **onDestroy** ()
- void **onClick** (View arg0)
- String **getFindQuery** ()

Static Public Member Functions

- static int **getFileState** ()

Static Public Attributes

- static final int **NOT_MODIFIED** = 0
- static final int **MODIFIED_NOT_SAVED** = 1
- static final int **MODIFIED_AND_SAVED** = 2
- static final int **BAR_NONE** = 0
- static final int **BAR_CMD** = 1
- static final int **BAR_ANNOT** = 2
- static final int **BAR_FIND** = 3
- static final int **NAVIGATION_THUMBS** = 0
- static final int **NAVIGATION_SEEK** = 1

3.94.1 Member Function Documentation

3.94.1.1 setNavigationMode()

```
void com.radaee.reader.PDFViewController.setNavigationMode (
    int navigationMode )
```

Set the navigation mode between (thumb view or seekbar)

Parameters

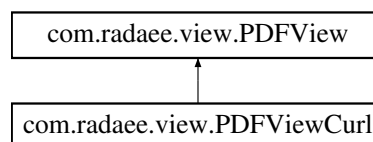
<i>navigationMode, the</i>	navigation mode must be one of the following values: 0 (NAVIGATION_THUMBS) for Thumb view mode 1 (NAVIGATION_SEEK) for seekbar mode
----------------------------	---

The documentation for this class was generated from the following file:

- PDFViewController.java

3.95 com.radaee.view.PDFViewCurl Class Reference

Inheritance diagram for com.radaee.view.PDFViewCurl:



Public Member Functions

- **PDFViewCurl** (Context context)
- void **vOpen** ([Document](#) doc, int page_gap, int back_color, [PDFViewListener](#) listener)

- void [vClose](#) ()
- void [vDraw](#) (Canvas canvas)
- void [vSetPos](#) ([PDFPos](#) pos, int vx, int vy)
- void [vGotoPage](#) (int pageno)
- void [setCurlBackSideClr](#) (int color)

Protected Member Functions

- void [vLayout](#) ()
- int [vGetPage](#) (int vx, int vy)
- boolean [motionNormal](#) (MotionEvent event)
- void [vOnTimer](#) (Object obj)
- void [vFindGoto](#) ()

Additional Inherited Members

3.95.1 Member Function Documentation

3.95.1.1 [motionNormal\(\)](#)

```
boolean com.radaee.view.PDFViewCurl.motionNormal (  
    MotionEvent event ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.2 [vClose\(\)](#)

```
void com.radaee.view.PDFViewCurl.vClose ( )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.3 [vDraw\(\)](#)

```
void com.radaee.view.PDFViewCurl.vDraw (  
    Canvas canvas )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.4 vFindGoto()

```
void com.radaee.view.PDFViewCurl.vFindGoto ( ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.5 vGetPage()

```
int com.radaee.view.PDFViewCurl.vGetPage (
    int vx,
    int vy ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.6 vGotoPage()

```
void com.radaee.view.PDFViewCurl.vGotoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.7 vLayout()

```
void com.radaee.view.PDFViewCurl.vLayout ( ) [protected]
```

implement by derived class.

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.8 vOnTimer()

```
void com.radaee.view.PDFViewCurl.vOnTimer (
    Object obj ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.9 vOpen()

```
void com.radaee.view.PDFViewCurl.vOpen (
    Document doc,
    int page_gap,
    int back_color,
    PDFViewListener listener )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.95.1.10 vSetPos()

```
void com.radaee.view.PDFViewCurl.vSetPos (
    PDFPos pos,
    int vx,
    int vy )
```

set Position to point in view coordinate, implement in derived class.
pass (0,0) to set position to left-top corner.

Parameters

<i>pos</i>	position in PDF coordinate.
<i>vx</i>	
<i>vy</i>	

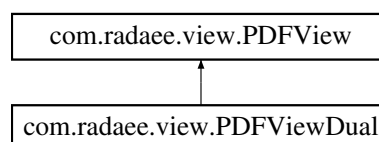
Reimplemented from [com.radaee.view.PDFView](#).

The documentation for this class was generated from the following file:

- PDFViewCurl.java

3.96 com.radaee.view.PDFViewDual Class Reference

Inheritance diagram for com.radaee.view.PDFViewDual:



Classes

- class [PDFCell](#)

Public Member Functions

- **PDFViewDual** (Context context)
- void **vSetLayoutPara** (boolean verts[], boolean horzs[], boolean rtol, boolean page_align_top)
- void **vOpen** (Document doc, int page_gap, int back_color, PDFViewListener listener)
- void **vResize** (int w, int h)
- void **vGotoPage** (int pageno)
- void **vCenterPage** (int pageno)

Protected Member Functions

- void **vLayout** ()
- int **vGetPage** (int vx, int vy)
- void **vOnMoveEnd** (int x, int y)
- void **vOnZoomEnd** ()
- boolean **vOnFling** (float dx, float dy, float velocityX, float velocityY)

Protected Attributes

- PDFCell **m_cells** []

Additional Inherited Members

3.96.1 Member Function Documentation

3.96.1.1 vCenterPage()

```
void com.radaee.view.PDFViewDual.vCenterPage (
    int pageno )
```

scroll and center the page.

Parameters

<i>pageno</i>	
---------------	--

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.2 vGetPage()

```
int com.radaee.view.PDFViewDual.vGetPage (
    int vx,
    int vy ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.3 vGotoPage()

```
void com.radaee.view.PDFViewDual.vGotoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.4 vLayout()

```
void com.radaee.view.PDFViewDual.vLayout ( ) [protected]
```

implement by derived class.

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.5 vOnFling()

```
boolean com.radaee.view.PDFViewDual.vOnFling (
    float dx,
    float dy,
    float velocityX,
    float velocityY ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.6 vOnMoveEnd()

```
void com.radaee.view.PDFViewDual.vOnMoveEnd (
    int x,
    int y ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.7 vOnZoomEnd()

```
void com.radaee.view.PDFViewDual.vOnZoomEnd ( ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.8 vOpen()

```
void com.radaee.view.PDFViewDual.vOpen (
    Document doc,
    int page_gap,
    int back_color,
    PDFViewListener listener )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.9 vResize()

```
void com.radaee.view.PDFViewDual.vResize (
    int w,
    int h )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.96.1.10 vSetLayoutPara()

```
void com.radaee.view.PDFViewDual.vSetLayoutPara (
    boolean verts[],
    boolean horzs[],
    boolean rtol,
    boolean page_align_top )
```

set layout parameters.

Parameters

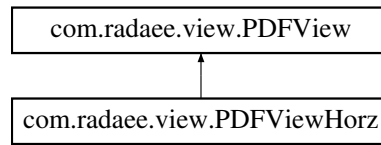
<i>verts</i>	applied duals flag for vertical screen
<i>horzs</i>	applied duals flag for landscape screen Element which set to true mean this cell treat as dual page, otherwise treat as single page. For example, book has a cover(first page treat as single) just codes: verts = null; horzs = new boolean[1]; horzs[0] = false; Pages, those out of array bound: in vertical screen: treat as single page(false). in landscape screen: treat as dual page(true).
<i>rtol</i>	right scroll to left page mode?.
<i>page_align_top</i>	pages align to top? if false, pages were vertically centered.

The documentation for this class was generated from the following file:

- PDFViewDual.java

3.97 com.radaee.view.PDFViewHorz Class Reference

Inheritance diagram for com.radaee.view.PDFViewHorz:



Public Member Functions

- **PDFViewHorz** (Context context)
- void **vSetDirection** (boolean rtol)
- void **vOpen** ([Document](#) doc, int page_gap, int back_color, [PDFViewListener](#) listener)
- void **vResize** (int w, int h)

Protected Member Functions

- void **vLayout** ()
- int **vGetPage** (int vx, int vy)

Additional Inherited Members

3.97.1 Member Function Documentation

3.97.1.1 vGetPage()

```
int com.radaee.view.PDFViewHorz.vGetPage (  
    int vx,  
    int vy ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.97.1.2 vLayout()

```
void com.radaee.view.PDFViewHorz.vLayout ( ) [protected]
```

implement by derived class.

Reimplemented from [com.radaee.view.PDFView](#).

3.97.1.3 vOpen()

```
void com.radaee.view.PDFViewHorz.vOpen (
    Document doc,
    int page_gap,
    int back_color,
    PDFViewListener listener )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.97.1.4 vResize()

```
void com.radaee.view.PDFViewHorz.vResize (
    int w,
    int h )
```

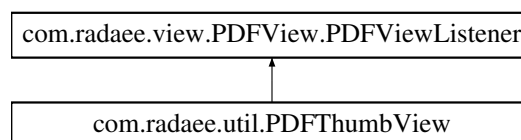
Reimplemented from [com.radaee.view.PDFView](#).

The documentation for this class was generated from the following file:

- PDFViewHorz.java

3.98 com.radaee.view.PDFView.PDFViewListener Interface Reference

Inheritance diagram for com.radaee.view.PDFView.PDFViewListener:



Public Member Functions

- void [OnPDFPageChanged](#) (int pageno)
- boolean [OnPDFDoubleTapped](#) (float x, float y)
- boolean [OnPDFSingleTapped](#) (float x, float y)
- void [OnPDFLongPressed](#) (float x, float y)
- void [OnPDFShowPressed](#) (float x, float y)
- void [OnPDFSelectEnd](#) ()
- void [OnPDFFound](#) (boolean found)
- void [OnPDFInvalidate](#) (boolean post)
- void [OnPDFPageDisplayed](#) (Canvas canvas, [PDFVPage](#) vpage)
- void [OnPDFSelecting](#) (Canvas canvas, int[] rect1, int[] rect2)
- void [OnPDFZoomStart](#) ()
- void [OnPDFZoomEnd](#) ()
- void [OnPDFPageRendered](#) (int pageno)

3.98.1 Detailed Description

call-back listener class

Author

radaee

3.98.2 Member Function Documentation

3.98.2.1 OnPDFDoubleTapped()

```
boolean com.radaee.view.PDFView.PDFViewListener.OnPDFDoubleTapped (
    float x,
    float y )
```

fired when double tapped.

Parameters

<i>x</i>	x coordinate
<i>y</i>	y coordinate

Returns

true, if process it, or skipped.

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.2 OnPDFFound()

```
void com.radaee.view.PDFView.PDFViewListener.OnPDFFound (
    boolean found )
```

fired when searching end.

Parameters

<i>found</i>	true if found, otherwise pass false.
--------------	--------------------------------------

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.3 OnPDFInvalidate()

```
void com.radaee.view.PDFView.PDFViewListener.OnPDFInvalidate (
    boolean post )
```

notify to redraw the view

Parameters

<i>post</i>	whether post invalidate?
-------------	--------------------------

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.4 OnPDFLongPressed()

```
void com.radaee.view.PDFView.PDFViewListener.OnPDFLongPressed (
    float x,
    float y )
```

fired when long pressed.

Parameters

<i>x</i>	x coordinate
<i>y</i>	y coordinate

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.5 OnPDFPageChanged()

```
void com.radaee.view.PDFView.PDFViewListener.OnPDFPageChanged (
    int pageno )
```

fired when page changed.

Parameters

<i>pageno</i>	0 based pageno.
---------------	-----------------

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.6 OnPDFPageDisplayed()

```
void com.radaee.view.PDFView.PDFViewListener.OnPDFPageDisplayed (
    Canvas canvas,
    PDFVPage vpage )
```

fired when a page displayed.

Parameters

<i>vpage</i>	
--------------	--

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.7 OnPDFSelectEnd()

```
void com.radaee.view.PDFView.PDFViewListener.OnPDFSelectEnd ( )
```

fired when text selecting end.

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.8 OnPDFSelecting()

```
void com.radaee.view.PDFView.PDFViewListener.OnPDFSelecting (
    Canvas canvas,
    int[] rect1,
    int[] rect2 )
```

fired when selecting.

Parameters

<i>canvas</i>	Canvas object to draw.
<i>rect1</i>	first char's location, in Canvas coordinate.
<i>rect2</i>	last char's location, in Canvas coordinate.

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.9 OnPDFShowPressed()

```
void com.radaee.view.PDFView.PDFViewListener.OnPDFShowPressed (
    float x,
    float y )
```

fired when tapped without moving.

Parameters

<i>x</i>	x coordinate
<i>y</i>	y coordinate

Implemented in [com.radaee.util.PDFThumbView](#).

3.98.2.10 OnPDFSingleTapped()

```
boolean com.radaee.view.PDFView.PDFViewListener.OnPDFSingleTapped (
    float x,
    float y )
```

fired when single tapped.

Parameters

<i>x</i>	x coordinate
<i>y</i>	y coordinate

Returns

true, if process it, or skipped.

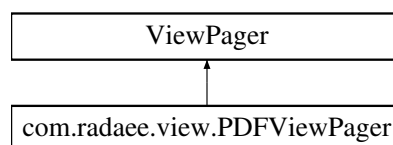
Implemented in [com.radaee.util.PDFThumbView](#).

The documentation for this interface was generated from the following file:

- PDFView.java

3.99 com.radaee.view.PDFViewPager Class Reference

Inheritance diagram for com.radaee.view.PDFViewPager:



Public Member Functions

- **PDFViewPager** (Context context)
- **PDFViewPager** (Context context, AttributeSet attrs)
- void **PDFOpen** ([Document](#) doc, int fit_type)
- void **PDFClose** ()
- boolean **onTouchEvent** (MotionEvent ev)
- boolean **onInterceptTouchEvent** (MotionEvent ev)

Protected Member Functions

- void **finalize** () throws Throwable

3.99.1 Detailed Description

Created by radaee on 2015/5/14.

3.99.2 Member Function Documentation

3.99.2.1 PDFOpen()

```
void com.radaee.view.PDFViewPager.PDFOpen (
    Document doc,
    int fit_type )
```

Parameters

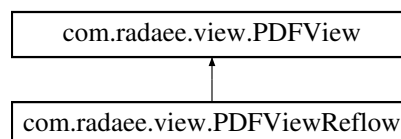
<i>doc</i>	
<i>fit_type</i>	page fit mode: 0- fit screen. 1- fit width. 2- fit height.

The documentation for this class was generated from the following file:

- PDFViewPager.java

3.100 com.radaee.view.PDFViewReflow Class Reference

Inheritance diagram for com.radaee.view.PDFViewReflow:



Public Member Functions

- **PDFViewReflow** (Context context)
- void **vOpen** (Document doc, int page_gap, int back_color, PDFViewListener listener)
- void **vClose** ()
- PDFPos **vGetPos** (int vx, int vy)
- void **vDraw** (Canvas canvas)
- void **vSetPos** (PDFPos pos, int vx, int vy)
- void **vGotoPage** (int pageno)

Protected Member Functions

- void [vLayout](#) ()
- int [vGetPage](#) (int vx, int vy)
- void [vFindGoto](#) ()
- void [vSingleTap](#) (float x, float y)
- boolean [vOnFling](#) (float dx, float dy, float velocityX, float velocityY)

Additional Inherited Members

3.100.1 Member Function Documentation

3.100.1.1 [vClose\(\)](#)

`void com.radaee.view.PDFViewReflow.vClose ( )`

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.2 [vDraw\(\)](#)

`void com.radaee.view.PDFViewReflow.vDraw (`
 `Canvas canvas )`

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.3 [vFindGoto\(\)](#)

`void com.radaee.view.PDFViewReflow.vFindGoto ( )` [protected]

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.4 [vGetPage\(\)](#)

`int com.radaee.view.PDFViewReflow.vGetPage (`
 `int vx,`
 `int vy )` [protected]

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.5 [vGetPos\(\)](#)

[PDFPos](#) `com.radaee.view.PDFViewReflow.vGetPos (`
 `int vx,`
 `int vy )`

get Position from point in view coordinate, implement in derived class.
 pass (0,0) to get position of left-top corner

Parameters

<i>vx</i>	
<i>vy</i>	

Returns

position in PDF coordinate.

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.6 vGotoPage()

```
void com.radaee.view.PDFViewReflow.vGotoPage (
    int pageno )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.7 vLayout()

```
void com.radaee.view.PDFViewReflow.vLayout ( ) [protected]
```

implement by derived class.

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.8 vOnFling()

```
boolean com.radaee.view.PDFViewReflow.vOnFling (
    float dx,
    float dy,
    float velocityX,
    float velocityY ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.9 vOpen()

```
void com.radaee.view.PDFViewReflow.vOpen (
    Document doc,
    int page_gap,
    int back_color,
    PDFViewListener listener )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.10 vSetPos()

```
void com.radaee.view.PDFViewReflow.vSetPos (
    PDFPos pos,
    int vx,
    int vy )
```

set Position to point in view coordinate, implement in derived class.
pass (0,0) to set position to left-top corner.

Parameters

<i>pos</i>	position in PDF coordinate.
<i>vx</i>	
<i>vy</i>	

Reimplemented from [com.radaee.view.PDFView](#).

3.100.1.11 vSingleTap()

```
void com.radaee.view.PDFViewReflow.vSingleTap (
    float x,
    float y ) [protected]
```

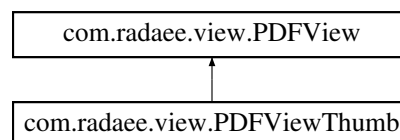
Reimplemented from [com.radaee.view.PDFView](#).

The documentation for this class was generated from the following file:

- PDFViewReflow.java

3.101 com.radaee.view.PDFViewThumb Class Reference

Inheritance diagram for com.radaee.view.PDFViewThumb:



Classes

- interface [PDFThumbListener](#)

Public Member Functions

- **PDFViewThumb** (Context context)
- void **vOpen** ([Document](#) doc, int page_gap, int back_color, [PDFViewListener](#) listener)
- void **vClose** ()
- void **vResize** (int w, int h)
- void **vSetThumbListener** ([PDFThumbListener](#) listener)
- void **vSetOrientation** (int dir)
- int **vGetOrientation** ()
- void **vSetSel** (int pageno, boolean is_shown)
- void **vDraw** (Canvas canvas)
- void **setThumbHeight** (int height)
- int **getThumbHeight** ()

Protected Member Functions

- void **vLayout** ()
- int **vGetPage** (int vx, int vy)
- boolean **vOnFling** (float dx, float dy, float velocityX, float velocityY)
- void **vOnMoveEnd** (int x, int y)
- void **vSingleTap** (float x, float y)
- void **vFlushRange** ()

Additional Inherited Members

3.101.1 Member Function Documentation

3.101.1.1 vClose()

```
void com.radaee.view.PDFViewThumb.vClose ( )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.2 vDraw()

```
void com.radaee.view.PDFViewThumb.vDraw (
    Canvas canvas )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.3 vFlushRange()

```
void com.radaee.view.PDFViewThumb.vFlushRange ( ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.4 vGetOrientation()

```
int com.radaee.view.PDFViewThumb.vGetOrientation ( )
```

get layout mode

Returns

- 0: horizontal
- 1: vertical
- 2: RTOL horizontal

3.101.1.5 vGetPage()

```
int com.radaee.view.PDFViewThumb.vGetPage (
    int vx,
    int vy ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.6 vLayout()

```
void com.radaee.view.PDFViewThumb.vLayout ( ) [protected]
```

implement by derived class.

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.7 vOnFling()

```
boolean com.radaee.view.PDFViewThumb.vOnFling (
    float dx,
    float dy,
    float velocityX,
    float velocityY ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.8 vOnMoveEnd()

```
void com.radaee.view.PDFViewThumb.vOnMoveEnd (
    int x,
    int y ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.9 vOpen()

```
void com.radaee.view.PDFViewThumb.vOpen (
    Document doc,
    int page_gap,
    int back_color,
    PDFViewListener listener )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.10 vResize()

```
void com.radaee.view.PDFViewThumb.vResize (
    int w,
    int h )
```

Reimplemented from [com.radaee.view.PDFView](#).

3.101.1.11 vSetOrientation()

```
void com.radaee.view.PDFViewThumb.vSetOrientation (
    int dir )
```

set layout mode

Parameters

<i>dir</i>	0: horizontal 1: vertical 2: RTOL horizontal 3: Grid
------------	---

3.101.1.12 vSetSel()

```
void com.radaee.view.PDFViewThumb.vSetSel (
    int pageno,
    boolean is_shown )
```

set selected page, and then scroll to this page.

Parameters

<i>pageno</i>	
---------------	--

3.101.1.13 vSingleTap()

```
void com.radaee.view.PDFViewThumb.vSingleTap (
    float x,
    float y ) [protected]
```

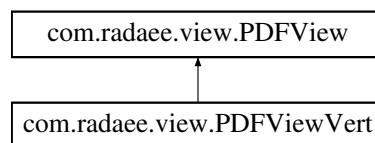
Reimplemented from [com.radaee.view.PDFView](#).

The documentation for this class was generated from the following file:

- PDFViewThumb.java

3.102 com.radaee.view.PDFViewVert Class Reference

Inheritance diagram for com.radaee.view.PDFViewVert:



Public Member Functions

- **PDFViewVert** (Context context)
- void [vSetPageAlign](#) (int align)

Protected Member Functions

- void [vLayout](#) ()
- int [vGetPage](#) (int vx, int vy)

Additional Inherited Members

3.102.1 Member Function Documentation

3.102.1.1 vGetPage()

```
int com.radaee.view.PDFViewVert.vGetPage (
    int vx,
    int vy ) [protected]
```

Reimplemented from [com.radaee.view.PDFView](#).

3.102.1.2 vLayout()

```
void com.radaee.view.PDFViewVert.vLayout ( ) [protected]
```

implement by derived class.

Reimplemented from [com.radaee.view.PDFView](#).

3.102.1.3 vSetPageAlign()

```
void com.radaee.view.PDFViewVert.vSetPageAlign (
    int align )
```

set page horizon align in view.

if pages in document are all in same size, the align parameter shall no effect.

Parameters

<i>align</i>	0: left, 1: center, 2: right.
--------------	-------------------------------

The documentation for this class was generated from the following file:

- PDFViewVert.java

3.103 com.radaee.view.PDFVPage Class Reference

Public Member Functions

- final boolean **IsFinished** ()

- int **RenderPrepare** ()
- void **Draw** ([BMP](#) bmp, int scrollx, int scrolly)
- final float **ToPDFX** (float x, float scrollx)
- final float **ToPDFY** (float y, float scrolly)
- final float **ToDIBX** (float x)
- final float **ToDIBY** (float y)
- final [Page](#) **GetPage** ()
- final int **GetPageNo** ()
- final int **GetX** ()
- final int **GetY** ()
- final float **GetScale** ()
- final int **GetVX** (float scrollx)
- final int **GetVY** (float scrolly)
- final int **GetWidth** ()
- final int **GetHeight** ()
- final [Matrix](#) **CreateMatrix** ()
- final [Matrix](#) **CreateInvertMatrix** (float scrollx, float scrolly)
- final float **ToPDFSize** (float val)
- [Bitmap](#) **Reflow** (int w, float scale, boolean render_images)

Public Attributes

- [PDFVCache](#) m_cache

Protected Member Functions

- [PDFVPage](#) ([Document](#) doc, int pageno)
- boolean **SetRect** (int x, int y, float scale)
- [PDFVCache](#) **CancelRender** ()
- final void **SetSel** (float x1, float y1, float x2, float y2, int scrollx, int scrolly)
- final boolean **SetSelMarkup** (int type)
- final String **GetSel** ()
- final void **ClearSel** ()
- void **DrawDIB** ([DIB](#) dib, int scrollx, int scrolly)
- final int[] **GetSelRect1** (int scrollx, int scrolly)
- final int[] **GetSelRect2** (int scrollx, int scrolly)
- void **Draw** ([Canvas](#) canvas, int scrollx, int scrolly)
- final void **DeleteBmp** ()
- void **CreateBmp** ([Config](#) bmp_format)
- boolean **NeedBmp** ()

Protected Attributes

- [Document](#) m_doc
- [PDFVSel](#) m_sel
- int m_pageno
- float m_scale
- int m_w = 0
- int m_h = 0
- int m_x
- int m_y
- [Bitmap](#) m_bmp = null

3.103.1 Member Function Documentation

3.103.1.1 CancelRender()

`PDFVCache` com.radaee.view.PDFVPage.CancelRender () [protected]

cancel render session, mostly it invoked by UI thread.

Returns

3.103.1.2 CreateInvertMatrix()

```
final Matrix com.radaee.view.PDFVPage.CreateInvertMatrix (
    float scrollx,
    float scrolly )
```

create an Inverted Matrix maps screen coordinate to PDF coordinate.

Parameters

<i>scrollx</i>	current x for <code>PDFView</code>
<i>scrolly</i>	current y for <code>PDFView</code>

Returns

3.103.1.3 CreateMatrix()

```
final Matrix com.radaee.view.PDFVPage.CreateMatrix ( )
```

create a Matrix object maps PDF coordinate to DIB coordinate.

Returns

3.103.1.4 Draw() [1/2]

```
void com.radaee.view.PDFVPage.Draw (
    BMP bmp,
    int scrollx,
    int scrolly )
```

draw to Bitmap, mostly it invoked by UI thread.

Parameters

<i>bmp</i>	
<i>scrollx</i>	
<i>scrolly</i>	

3.103.1.5 Draw() [2/2]

```
void com.radaee.view.PDFVPage.Draw (
    Canvas canvas,
    int scrollx,
    int scrolly ) [protected]
```

draw to Canvas, mostly it invoked by UI thread.

Parameters

<i>canvas</i>	
---------------	--

3.103.1.6 GetHeight()

```
final int com.radaee.view.PDFVPage.GetHeight ( )
```

get page width in view

Returns

3.103.1.7 GetPage()

```
final Page com.radaee.view.PDFVPage.GetPage ( )
```

get Page object

Returns

3.103.1.8 GetPageNo()

```
final int com.radaee.view.PDFVPage.GetPageNo ( )
```

get 0 based page NO.

Returns

3.103.1.9 GetVX()

```
final int com.radaee.view.PDFVPage.GetVX (
    float scrollx )
```

get x position in View

Parameters

<i>scrollx</i>	x scroll position
----------------	-------------------

Returns

3.103.1.10 GetVY()

```
final int com.radaee.view.PDFVPage.GetVY (
    float scrolly )
```

get y position in View

Parameters

<i>scrolly</i>	y scroll position
----------------	-------------------

Returns

3.103.1.11 GetWidth()

```
final int com.radaee.view.PDFVPage.GetWidth ( )
```

get page width in view

Returns

3.103.1.12 GetX()

```
final int com.radaee.view.PDFVPage.GetX ( )
```

get x position in whole View

Returns

3.103.1.13 GetY()

```
final int com.radaee.view.PDFVPage.GetY ( )
```

get y position in whole View

Returns

3.103.1.14 ToDIBX()

```
final float com.radaee.view.PDFVPage.ToDIBX (
    float x )
```

map x to DIB coordinate

Parameters

x	x position in PDF coordinate
---	------------------------------

Returns

3.103.1.15 ToDIBY()

```
final float com.radaee.view.PDFVPage.ToDIBY (
    float y )
```

map y to DIB coordinate

Parameters

<i>y</i>	y position in PDF coordinate
----------	------------------------------

Returns

3.103.1.16 ToPDFSize()

```
final float com.radaee.view.PDFVPage.ToPDFSize (
    float val )
```

convert size to PDF size

Parameters

<i>val</i>	size value, mostly are line width.
------------	------------------------------------

Returns

size value in PDF coordinate

3.103.1.17 ToPDFX()

```
final float com.radaee.view.PDFVPage.ToPDFX (
    float x,
    float scrollx )
```

map x position in view to PDF coordinate

Parameters

<i>x</i>	x position in view
<i>scrollx</i>	x scroll position

Returns

3.103.1.18 ToPDFY()

```
final float com.radaee.view.PDFVPage.ToPDFY (
    float y,
    float scrolly )
```

map y position in view to PDF coordinate

Parameters

<i>y</i>	y position in view
<i>scrolly</i>	y scroll position

Returns

The documentation for this class was generated from the following file:

- PDFVPage.java

3.104 com.radaee.view.PDFVSel Class Reference**Protected Member Functions**

- **PDFVSel** ([Page](#) page)
- void **Clear** ()
- int[] **GetRect1** (float scale, float page_height, int orgx, int orgy)
- int[] **GetRect2** (float scale, float page_height, int orgx, int orgy)
- void **SetSel** (float x1, float y1, float x2, float y2)
- boolean **SetSelMarkup** (int type)
- String **GetSelString** ()
- void **DrawSel** (Canvas canvas, float scale, float page_height, int orgx, int orgy)
- void **DrawSel** ([BMP](#) bmp, float scale, float page_height, int orgx, int orgy)
- void **DrawSelToDIB** ([DIB](#) dib, float scale, float page_height, int orgx, int orgy)

Protected Attributes

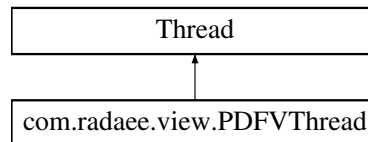
- [Page](#) **m_page**
- int **m_index1**
- int **m_index2**
- boolean **m_ok** = false
- boolean **m_swiped** = false

The documentation for this class was generated from the following file:

- PDFVSel.java

3.105 com.radaee.view.PDFVThread Class Reference

Inheritance diagram for com.radaee.view.PDFVThread:



Public Member Functions

- void **start** ()
- void **run** ()
- final void **start_render** ([PDFVPage](#) page)
- synchronized void **destroy** ()

Protected Member Functions

- **PDFVThread** (Handler hand_ui)
- final void **start_render_thumb** ([PDFVPage](#) page)
- final void **end_render** ([PDFVPage](#) page)
- final void **start_find** ([PDFVFinder](#) finder)

3.105.1 Detailed Description

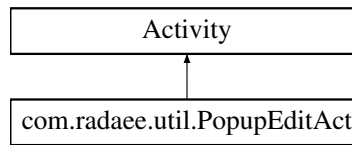
Inner class.
developer should not use this.

The documentation for this class was generated from the following file:

- PDFVThread.java

3.106 com.radaee.util.PopupEditAct Class Reference

Inheritance diagram for com.radaee.util.PopupEditAct:



Classes

- interface [ActRetListener](#)

Public Member Functions

- void **onBackPressed** ()
- boolean **onTouchEvent** (MotionEvent event)

Static Public Attributes

- static [ActRetListener](#) **ms_listener**

Protected Member Functions

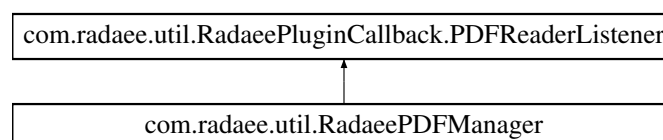
- void **onCreate** (Bundle savedInstanceState)

The documentation for this class was generated from the following file:

- `PopupEditAct.java`

3.107 com.radaee.util.RadaeePDFManager Class Reference

Inheritance diagram for com.radaee.util.RadaeePDFManager:



Public Member Functions

- **RadaeePDFManager** (RadaeePluginCallback.PDFReaderListener listener)
- boolean **activateLicense** (Context context, int licenseType, String companyName, String mail, String key)
- void **show** (Context context, String url, String password)
- void **show** (Context context, String url, String password, boolean readOnlyMode, boolean automaticSave, int gotoPage, String bmpFormat, String author, int layoutType)
- void **openFromAssets** (Context context, String path, String password)
- void **openFromAssets** (Context context, String path, String password, String bmpFormat)
- void **openFromPath** (Context context, String path, String password, int layoutType)
- void **setReaderViewMode** (int viewMode)
- void **setReaderBGColor** (int color)
- void **setThumbnailBGColor** (int color)
- void **setThumbHeight** (int height)
- void **setDebugMode** (boolean debugMode)
- void **setFirstPageCover** (boolean firstPageCover)
- void **setLayoutType** (int layoutType)
- int **getPageNumber** ()
- void **setIconsBGColor** (int color)
- void **setTitleBGColor** (int color)
- void **setImmersive** (boolean immersive)
- String **getJsonFormFields** ()
- String **getJsonFormFieldsAtPage** (int pageno)
- String **setFormFieldsWithJSON** (String json)
- int **getPageCount** ()
- String **extractTextFromPage** (int page)
- String **encryptDocAs** (String dst, String upswd, String opswd, int perm, int method, String id)
- String **addToBookmarks** (Context mContext, String filePath, int page, String bookmarkLabel)
- boolean **removeBookmark** (int page, String filePath)
- String **getBookmarksAsJson** (String filePath)
- boolean **addAnnotAttachment** (String attachmentPath)
- String **getTextAnnotationDetails** (int page)
- String **getMarkupAnnotationDetails** (int page)
- int **getCharIndex** (int page, float x, float y)
- void **addTextAnnotation** (int page, float x, float y, String text, String subject)
- void **addMarkupAnnotation** (int page, int type, int index1, int index2)
- String **getPDFCoordinates** (int x, int y)
- String **getScreenCoordinates** (int pageno, float x, float y)
- String **getPDFRect** (int left, int top, int right, int bottom)
- String **getScreenRect** (int pageno, float left, float top, float right, float bottom)
- String **renderAnnotToFile** (int page, int annotIndex, String renderPath, int bitmapWidth, int bitmapHeight)
- boolean **flatAnnotAtPage** (int page)
- boolean **flatAnnots** ()
- boolean **saveDocumentToPath** (String path, String pswd)
- boolean **saveDocumentToPath** (String path)
- void **closeReader** ()
- void **willShowReader** ()
- void **didShowReader** ()
- void **willCloseReader** ()
- void **didCloseReader** ()
- void **didChangePage** (int pageno)
- void **didSearchTerm** (String query, boolean found)
- void **onBlankTapped** (int pageno)
- void **onAnnotTapped** (Page.Annotation annot)
- void **onDoubleTapped** (int pageno, float x, float y)
- void **onLongPressed** (int pageno, float x, float y)

Static Public Attributes

- static final int **GPU_BASED_LAYOUT** = 0
- static final int **CPU_BASED_LAYOUT** = 1
- static boolean **sHideSaveButton** = false
- static boolean **sHideMoreButton** = false
- static boolean **sHideUndoButton** = false
- static boolean **sHideRedoButton** = false
- static boolean **sHideShareButton** = false
- static boolean **sHidePrintButton** = false
- static boolean **sHideAnnotButton** = false
- static boolean **sHideSelectButton** = false
- static boolean **sHideSearchButton** = false
- static boolean **sHideOutlineButton** = false
- static boolean **sHideViewModeButton** = false
- static boolean **sHideAddBookmarkButton** = false
- static boolean **sHideShowBookmarksButton** = false

3.107.1 Detailed Description

A class that can be used by depending modules, to facilitate the PDF Viewer usage.

Author

Nermeen created on 30/01/2017.

3.107.2 Member Function Documentation

3.107.2.1 activateLicense()

```
boolean com.radaee.util.RadaeePDFManager.activateLicense (
    Context context,
    int licenseType,
    String companyName,
    String mail,
    String key )
```

Activates the SDK license. Should be called before show, open methods

Parameters

<i>context</i>	Context object must be derived from CocontextWrapper
<i>licenseType</i>	0: standard license, 1: professional license, 2: premium license.
<i>companyName</i>	company name (not package name)
<i>mail</i>	mail
<i>key</i>	the license activation key

Returns

true if the license was activated correctly, false otherwise

3.107.2.2 addAnnotAttachment()

```
boolean com.radaee.util.RadaeePDFManager.addAnnotAttachment (
    String attachmentPath )
```

add a file as an attachment.
this can be invoked after ObjsStart or Render or RenderToBmp.
this method require professional or premium license.

Parameters

<i>attachmentPath</i>	absolute path name to the file.
-----------------------	---------------------------------

Returns

true or false.

3.107.2.3 addToBookmarks()

```
String com.radaee.util.RadaeePDFManager.addToBookmarks (
    Context mContext,
    String filePath,
    int page,
    String bookmarkLabel )
```

Adds the given page to the bookmarks.

Parameters

<i>mContext</i>	context object
<i>filePath</i>	the original pdf file
<i>page</i>	0 based page no.
<i>bookmarkLabel</i>	label of Bookmark (can be empty string)

Returns

a string that indicates the result

3.107.2.4 didChangePage()

```
void com.radaee.util.RadaeePDFManager.didChangePage (
    int pageno )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.5 didCloseReader()

```
void com.radaee.util.RadaeePDFManager.didCloseReader ( )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.6 didSearchTerm()

```
void com.radaee.util.RadaeePDFManager.didSearchTerm (
    String query,
    boolean found )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.7 didShowReader()

```
void com.radaee.util.RadaeePDFManager.didShowReader ( )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.8 encryptDocAs()

```
String com.radaee.util.RadaeePDFManager.encryptDocAs (
    String dst,
    String upswd,
    String opswd,
    int perm,
    int method,
    String id )
```

encrypt document and save into another file.
this method require premium license.

Parameters

<i>dst</i>	path to save, same as path parameter of SaveAs.
<i>upswd</i>	user password, can be null (is the public password (shared with authorized users). It's sufficient to open the file with applied permission mask set).
<i>opswd</i>	owner password, can be null (is the password that allow opening the file without any restriction from the permission mask).
<i>perm</i>	permission to set, same as GetPermission() method. bit 1-2 reserved bit 3(0x4) print bit 4(0x8) modify bit 5(0x10) extract text or image others: see PDF reference
<i>method</i>	set 3 means using AES 256bits encrypt(Acrobat X), V=5 and R = 6 mode, others AES with V=4 and R=4 mode.
<i>id</i>	must be 32 bytes for file ID. it is divided to 2 array in native library, as each 16 bytes (something like the encryption seed or salt in some other encryption scheme. That id is a reserved code that make password stronger).

Returns

Success of error.

3.107.2.9 extractTextFromPage()

```
String com.radaee.util.RadaeePDFManager.extractTextFromPage (
    int page )
```

extract the text content of the given page

Parameters

<i>page</i>	the page number, 0-index (from 0 to Document.GetPageCount - 1)
-------------	--

Returns

the given page's text

3.107.2.10 getBookmarksAsJson()

```
String com.radaee.util.RadaeePDFManager.getBookmarksAsJson (
    String filePath )
```

returns a list of bookmarked pages in json format

Parameters

<i>filePath</i>	the original pdf file
-----------------	-----------------------

Returns

json string or null ex: [{"Page": 4,"Label": "Page: 5"}, {"Page": 1,"Label": "Page: 2"}]

3.107.2.11 getJsonFormFields()

```
String com.radaee.util.RadaeePDFManager.getJsonFormFields ( )
```

Returns a json object that contains all the document form fields dictionary

Returns

json object of all the document form fields dictionary (if-any), or ERROR otherwise

3.107.2.12 getJsonFormFieldsAtPage()

```
String com.radaee.util.RadaeePDFManager.getJsonFormFieldsAtPage (
    int pageno )
```

Returns a json object that contains a specific page's form fields dictionary

Parameters

<i>pageno</i>	the page number, 0-index (from 0 to Document.GetPageCount - 1)
---------------	--

Returns

json object of the page's form fields dictionary (if-any), or ERROR otherwise

3.107.2.13 getPageCount()

```
int com.radaee.util.RadaeePDFManager.getPageCount ( )
```

Returns document's pages count

Returns

document's pages count, -1 in case of error

3.107.2.14 getPageNumber()

```
int com.radaee.util.RadaeePDFManager.getPageNumber ( )
```

Gets the current page index, in case of dual it will return the page on the left

Returns

the current page index (0-based), -1 otherwise

3.107.2.15 onAnnotTapped()

```
void com.radaee.util.RadaeePDFManager.onAnnotTapped (
    Page.Annotation annot )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.16 onBlankTapped()

```
void com.radaee.util.RadaeePDFManager.onBlankTapped (
    int pageno )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.17 onDoubleTapped()

```
void com.radaee.util.RadaeePDFManager.onDoubleTapped (
    int pageno,
    float x,
    float y )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.18 onLongPressed()

```
void com.radaee.util.RadaeePDFManager.onLongPressed (
    int pageno,
    float x,
    float y )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.19 openFromAssets() [1/2]

```
void com.radaee.util.RadaeePDFManager.openFromAssets (
    Context context,
    String path,
    String password )
```

Opens the passed assets file and shows the PDF reader.

Parameters

<i>context</i>	the current context.
<i>path</i>	the asset name/path
<i>password</i>	the pdf's password, if no password, pass empty string

3.107.2.20 openFromAssets() [2/2]

```
void com.radaee.util.RadaeePDFManager.openFromAssets (
    Context context,
    String path,
    String password,
    String bmpFormat )
```

Opens the passed assets file and shows the PDF reader.

Parameters

<i>context</i>	the current context.
<i>path</i>	the asset name/path
<i>password</i>	the pdf's password, if no password, pass empty string
<i>bmpFormat</i>	bmp format, can be RGB_565 or ARGB_4444, default is ALPHA_8

3.107.2.21 openFromPath()

```
void com.radaee.util.RadaeePDFManager.openFromPath (
    Context context,
    String path,
    String password,
    int layoutType )
```

Opens the passed file and shows the PDF reader.

Parameters

<i>context</i>	the current context.
<i>path</i>	the pdf file path
<i>password</i>	the pdf's password, if no password, pass empty string
<i>layoutType</i>	determine the type of the layout to be used for rendering, (GPU or CPU) based layout, GPU_BASED_LAYOUT:0 (OpenGL), CPU_BASED_LAYOUT:1

3.107.2.22 removeBookmark()

```
boolean com.radaee.util.RadaeePDFManager.removeBookmark (
    int page,
    String filePath )
```

Removes the given page from bookmarks.

Parameters

<i>page</i>	0 based page no.
<i>filePath</i>	the original pdf file

Returns

true or false.

3.107.2.23 renderAnnotToFile()

```
String com.radaee.util.RadaeePDFManager.renderAnnotToFile (
    int page,
    int annotIndex,
    String renderPath,
    int bitmapWidth,
    int bitmapHeight )
```

Render annot to a bitmap, and save it to the given path

Parameters

<i>page</i>	the page number, 0-index (from 0 to Document.GetPageCount - 1)
<i>annotIndex</i>	annotation index
<i>renderPath</i>	the directory path in which the annotation will be saved (ex: /mnt/sdcard/bitmap.png) (in case of sdcard make sure the WRITE_EXTERNAL_STORAGE permission is granted)
<i>bitmapWidth</i>	the desired width of the result bitmap, 0 in case of using original width
<i>bitmapHeight</i>	the desired height of the result bitmap, 0 in case of using original height

3.107.2.24 setDebugMode()

```
void com.radaee.util.RadaeePDFManager.setDebugMode (
    boolean debugMode )
```

Sets the debug mode in Global Should be called before show, open methods

Parameters

<i>debugMode</i>	if true you will see (available memory debug message)
------------------	---

3.107.2.25 setFirstPageCover()

```
void com.radaee.util.RadaeePDFManager.setFirstPageCover (
    boolean firstPageCover )
```

Sets if the first page should be rendered as cover or dual Should be called before show, open methods

Parameters

<i>firstPageCover</i>	if true the first page will be single, if false it will be dual (same as view_mode = 4)
-----------------------	---

3.107.2.26 setFormFieldsWithJSON()

```
String com.radaee.util.RadaeePDFManager.setFormFieldsWithJSON (
    String json )
```

Using the passed json, you can set the value of form fields like: Text fields, checkbox, combo, radio buttons.

Parameters

<i>json</i>	object of the document form fields dictionary
-------------	---

3.107.2.27 setIconsBGColor()

```
void com.radaee.util.RadaeePDFManager.setIconsBGColor (
    int color )
```

Changes the color of the reader toolbar's icons.

Parameters

<i>color</i>	format as 0xAARRGGBB
--------------	----------------------

3.107.2.28 setImmersive()

```
void com.radaee.util.RadaeePDFManager.setImmersive (
    boolean immersive )
```

show/hide toolbar and thumbnails slider

Parameters

<i>immersive</i>	if true the toolbar and thumbnail will be hidden (if visible), if false and hidden they will be shown
------------------	---

3.107.2.29 setLayoutType()

```
void com.radaee.util.RadaeePDFManager.setLayoutType (
    int layoutType )
```

determine the type of the layout to be used for rendering, (GPU or CPU) based layout

Parameters

<i>layoutType</i>	GPU_BASED_LAYOUT:0 (OpenGL), CPU_BASED_LAYOUT:1
-------------------	---

3.107.2.30 setReaderBGColor()

```
void com.radaee.util.RadaeePDFManager.setReaderBGColor (
    int color )
```

Changes the reader's view background color. Should be called before show, open methods

Parameters

<i>color</i>	format as 0xAARRGGBB
--------------	----------------------

3.107.2.31 setReaderViewMode()

```
void com.radaee.util.RadaeePDFManager.setReaderViewMode (
    int viewMode )
```

Changes the Reader's view mode Should be called before show, open methods

Parameters

<i>viewMode</i>	0:vertical 3:single 4:dual 6: Dual with cover(1st page single)
-----------------	--

3.107.2.32 setThumbHeight()

```
void com.radaee.util.RadaeePDFManager.setThumbHeight (
    int height )
```

Changes the height of the thumbnail view. Should be called before show, open methods

Parameters

<i>height</i>	height in dp, i.e. 100 = 100dp
---------------	--------------------------------

3.107.2.33 setThumbnailBGColor()

```
void com.radaee.util.RadaeePDFManager.setThumbnailBGColor (
    int color )
```

Changes the thumbnail's view background color. Should be called before show, open methods

Parameters

<i>color</i>	format as 0xAARRGGBB
--------------	----------------------

3.107.2.34 setTitleBGColor()

```
void com.radaee.util.RadaeePDFManager.setTitleBGColor (
    int color )
```

Changes the color of the reader's toolbar.

Parameters

<i>color</i>	format as 0xAARRGGBB
--------------	----------------------

3.107.2.35 show() [1/2]

```
void com.radaee.util.RadaeePDFManager.show (
    Context context,
    String url,
    String password )
```

Opens the passed file and shows the PDF reader.

Parameters

<i>context</i>	the current context.
<i>url</i>	the url can be remote (starts with http/https), or local
<i>password</i>	the pdf's password, if no password, pass empty string

3.107.2.36 show() [2/2]

```
void com.radaee.util.RadaeePDFManager.show (
    Context context,
    String url,
    String password,
    boolean readOnlyMode,
    boolean automaticSave,
    int gotoPage,
    String bmpFormat,
    String author,
    int layoutType )
```

Opens the passed file and shows the PDF reader.

Parameters

<i>context</i>	the current context.
<i>url</i>	the url can be remote (starts with http/https), or local
<i>password</i>	the pdf's password, if no password, pass empty string
<i>readOnlyMode</i>	if true, the document will be opened in read-only mode
<i>automaticSave</i>	if true, the modifications will be saved automatically, else a requester to save will be shown
<i>gotoPage</i>	if greater than 0, the reader will render directly the passed page (0-index: from 0 to Document.GetPageCount - 1)
<i>bmpFormat</i>	bmp format, can be RGB_565 or ARGB_4444, default is ALPHA_8
<i>author</i>	if not empty, it will be used to set annotations' author during creation.
<i>layoutType</i>	determine the type of the layout to be used for rendering, (GPU or CPU) based layout, GPU_BASED_LAYOUT:0 (OpenGL), CPU_BASED_LAYOUT:1

3.107.2.37 willCloseReader()

```
void com.radaee.util.RadaeePDFManager.willCloseReader ( )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

3.107.2.38 willShowReader()

```
void com.radaee.util.RadaeePDFManager.willShowReader ( )
```

Implements [com.radaee.util.RadaeePluginCallback.PDFReaderListener](#).

The documentation for this class was generated from the following file:

- RadaeePDFManager.java

3.108 com.radaee.util.RadaeePluginCallback Class Reference**Classes**

- interface [PDFActivityListener](#)
- interface [PDFControllerListener](#)
- interface [PDFReaderListener](#)
- interface [PDFThumbListener](#)

Public Member Functions

- void **setListener** ([PDFReaderListener](#) listener)
- void **setThumbListener** ([PDFThumbListener](#) listener)
- void **setControllerListener** ([PDFControllerListener](#) listener)
- void **setActivityListener** ([PDFActivityListener](#) listener)
- void **willShowReader** ()
- void **didShowReader** ()
- void **willCloseReader** ()
- void **didCloseReader** ()
- void **didChangePage** (int pageno)
- void **didSearchTerm** (String query, boolean found)
- void **onBlankTapped** (int pageno)
- void **onAnnotTapped** (Page.Annotation annot)
- void **onThumbPageClick** (int pageno)
- void **onDoubleTapped** (int pageno, float x, float y)
- void **onLongPressed** (int pageno, float x, float y)
- void **onSetIconsBGColor** (int color)
- void **onSetToolbarBGColor** (int color)
- void **onSetImmersive** (boolean immersive)
- String **onGetJsonFormFields** ()
- String **onGetJsonFormFieldsAtPage** (int pageno)
- String **onSetFormFieldsWithJSON** (String json)

- int **onGetPageCount** ()
- String **onGetPageText** (int pageno)
- boolean **onEncryptDocAs** (String dst, String upswd, String opswd, int perm, int method, byte[] id)
- boolean **onAddAnnotAttachment** (String attachmentPath)
- String **renderAnnotToFile** (int page, int annotIndex, String renderPath, int bitmapWidth, int bitmapHeight)
- boolean **flatAnnotAtPage** (int page)
- boolean **flatAnnots** ()
- boolean **saveDocumentToPath** (String path, String pswd)
- void **closeReader** ()
- String **onGetTextAnnotationDetails** (int page)
- String **onGetMarkupAnnotationDetails** (int page)
- int **onGetCharIndex** (int page, float x, float y)
- void **onAddTextAnnotation** (int page, float x, float y, String text, String subject)
- void **onAddMarkupAnnotation** (int page, int type, int index1, int index2)
- String **onGetPDFCoordinates** (int x, int y)
- String **onGetScreenCoordinates** (int pageno, float x, float y)
- String **onGetScreenRect** (int pageno, float left, float top, float right, float bottom)
- String **onGetPDFRect** (int left, int top, int right, int bottom)

Static Public Member Functions

- static [RadaeePluginCallback](#) **getInstance** ()

3.108.1 Detailed Description

A class to manage callbacks between PDF viewer, and calling class. Your class should implement [PDFReaderListener](#) to receive its events.

Author

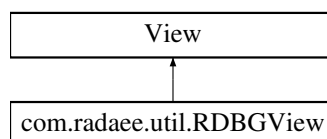
Nermeen created on 23/01/2017.

The documentation for this class was generated from the following file:

- RadaeePluginCallback.java

3.109 com.radaee.util.RDBGView Class Reference

Inheritance diagram for com.radaee.util.RDBGView:



Public Member Functions

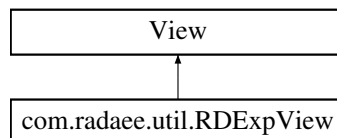
- **RDBGView** (Context context, @Nullable AttributeSet attrs)
- boolean **RDIShowing** ()
- boolean **RDIHidding** ()
- void **RDShow** ()
- void **RDHide** ()

The documentation for this class was generated from the following file:

- RDBGView.java

3.110 com.radaee.util.RDExpView Class Reference

Inheritance diagram for com.radaee.util.RDExpView:



Public Member Functions

- **RDExpView** (Context context, @Nullable AttributeSet attrs)
- void **RDSwap** ()
- boolean **RDIExp** ()

Protected Member Functions

- void **onDraw** (Canvas canvas)

The documentation for this class was generated from the following file:

- RDExpView.java

3.111 com.radaee.util.RDFileItem Class Reference

Classes

- class **RDFileItem**

Public Member Functions

- **RDFilesItem** (Context ctx, [RDLockerSet](#) lset, File dir, File[] files, RDFilesView.OnFilesListener listener)
- int **RDGetFileCount** ()
- File **RDGetFile** (int idx)
- int **RDOpen** (int idx, [Document](#) doc, String password)
- int **RDDelete** (int idx)

Protected Attributes

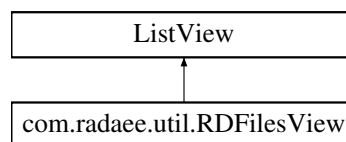
- LinearLayout **m_view**
- [RDExpView](#) **m_thead**
- RelativeLayout **m_panel**
- [RDLinearLayout](#) **m_list**
- File **m_dir**
- RDFileItem[] **m_items**

The documentation for this class was generated from the following file:

- RDFilesItem.java

3.112 com.radaee.util.RDFilesView Class Reference

Inheritance diagram for com.radaee.util.RDFilesView:



Classes

- interface [OnFilesListener](#)
- class **RDFilesAdt**

Public Member Functions

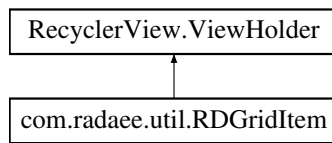
- **RDFilesView** (Context context, AttributeSet attrs)
- void **SetListener** ([RDLockerSet](#) lset, [OnFilesListener](#) listener)
- void **Update** ()
- void **Remove** ([RDFilesItem](#) item)
- boolean **IsEmpty** ()

The documentation for this class was generated from the following file:

- RDFilesView.java

3.113 com.radaee.util.RDGridItem Class Reference

Inheritance diagram for com.radaee.util.RDGridItem:



Classes

- class **RDFileItem**

Public Member Functions

- **RDGridItem** (@NonNull View itemView, [RDLockerSet](#) lset)
- int **RDOpen** ([Document](#) doc, String password)
- String **RDGetPath** ()
- File **RDGetFile** ()
- void **HideMore** (boolean hide)
- void **UpdateNameAndSize** ()
- void **UpdateThumb** ()
- synchronized void **RDCancel** ()
- void **RDDelete** ()
- boolean **IsDir** ()
- void **Close** ()

Protected Member Functions

- void **start_render** ()
- boolean **render** ()

Protected Attributes

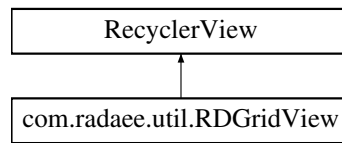
- View **m_parent**
- RDFileItem **m_file**
- RDFileItem **m_render**
- ImageView **m_vThumb**
- TextView **m_vName**
- ImageView **m_vMore**

The documentation for this class was generated from the following file:

- RDGridItem.java

3.114 com.radaee.util.RDGridView Class Reference

Inheritance diagram for com.radaee.util.RDGridView:



Classes

- class **RDGridAdt**

Public Member Functions

- **RDGridView** (@NonNull Context context, @Nullable AttributeSet attrs)
- void **RDSetRoot** (String path)
- void **RDSetListener** ([RDLockerSet](#) lset, RDGridAdt.OnGridListener listener)
- String **RDGetPath** ()
- void **RDFresh** ()
- void **RDGoUp** ()
- void **RDClose** ()
- void **RDRemove** (int pos)

Protected Member Functions

- void **onSizeChanged** (int w, int h, int oldw, int oldh)

Static Protected Member Functions

- static void **Init** (Context ctx)

Static Protected Attributes

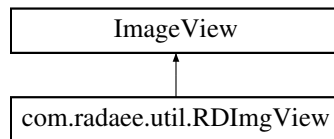
- static Bitmap **m_def_pdf_icon** = null
- static Bitmap **m_def_dir_icon** = null

The documentation for this class was generated from the following file:

- RDGridView.java

3.115 com.radaee.util.RDImageView Class Reference

Inheritance diagram for com.radaee.util.RDImageView:



Public Member Functions

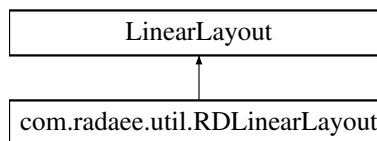
- **RDImageView** (Context context, @Nullable AttributeSet attrs)
- boolean **onTouchEvent** (MotionEvent event)

The documentation for this class was generated from the following file:

- RDImageView.java

3.116 com.radaee.util.RDLinearLayout Class Reference

Inheritance diagram for com.radaee.util.RDLinearLayout:



Public Member Functions

- **RDLinearLayout** (Context context, @Nullable AttributeSet attrs)
- boolean **onTouchEvent** (MotionEvent event)
- void **RDExpand** ()
- void **RDCollapse** ()

The documentation for this class was generated from the following file:

- RDLinearLayout.java

3.117 com.radaee.util.RDLockerSet Class Reference

Public Member Functions

- Object **Lock** (String key)
- void **Unlock** (String key, Object locker)

The documentation for this class was generated from the following file:

- RDLockerSet.java

3.118 com.radaee.util.RDRecent Class Reference

Public Member Functions

- **RDRecent** (Context ctx)
- int **GetCount** ()
- void **Close** ()
- void **insert** (String path, int pageno, int vtype)
- void **remove** (String path)
- void **remove** (int idx)
- String **get_path** (int idx)
- int **get_page** (int idx)
- int **get_vtype** (int idx)
- void **clear** ()

The documentation for this class was generated from the following file:

- RDRecent.java

3.119 com.radaee.util.RDRecentItem Class Reference

Public Member Functions

- File **RDGetFile** ()
- **RDRecentItem** (Context ctx, [RDLockerSet](#) lset)
- int **RDOpen** ([Document](#) doc, String password)
- void **RDDelete** ()
- synchronized void **RDCancel** ()
- void **UpdateThumb** ()

Protected Member Functions

- void **start_render** ()
- boolean **render** ()

Protected Attributes

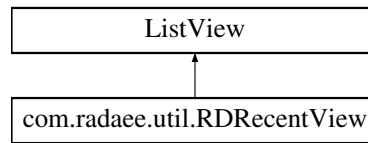
- RelativeLayout **m_view**
- File **m_file**
- Bitmap **m_thumb**
- int **m_pageno**
- int **m_view_type**

The documentation for this class was generated from the following file:

- RDRecentItem.java

3.120 com.radaee.util.RDRecentView Class Reference

Inheritance diagram for com.radaee.util.RDRecentView:



Classes

- interface [OnRecentListener](#)
- class **RDRecentAdt**

Public Member Functions

- **RDRecentView** (Context context, AttributeSet attrs)
- void **OpenRecent** ([RDLockerSet](#) lset, [OnRecentListener](#) listener)
- void **Remove** ([RDRecentItem](#) item)
- void **Clear** ()
- void **Update** ()
- void **Close** ()
- boolean **IsEmpty** ()

Protected Member Functions

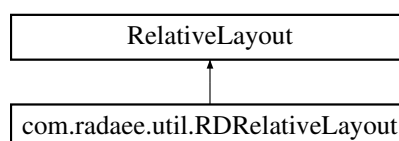
- void **onAttachedToWindow** ()

The documentation for this class was generated from the following file:

- RDRecentView.java

3.121 com.radaee.util.RDRelativeLayout Class Reference

Inheritance diagram for com.radaee.util.RDRelativeLayout:



Public Member Functions

- **RDRelativeLayout** (Context context, AttributeSet attrs)
- boolean **onTouchEvent** (MotionEvent event)

The documentation for this class was generated from the following file:

- RDRelativeLayout.java

3.122 com.radaee.pdf.adv.Ref Class Reference

Public Member Functions

- **Ref** (long handle)
- long **get_hand** ()

Protected Attributes

- long **hand**

3.122.1 Detailed Description

Created by radaee on 2015/3/30.

The documentation for this class was generated from the following file:

- Ref.java

3.123 com.radaee.pdf.ResFont Class Reference

Protected Attributes

- long **hand**

3.123.1 Detailed Description

Created by radaee on 2015/7/16.

The documentation for this class was generated from the following file:

- ResFont.java

3.124 com.radaee.pdf.ResForm Class Reference

Protected Attributes

- long **hand**

3.124.1 Detailed Description

Created by radaee on 2015/7/16.

The documentation for this class was generated from the following file:

- ResForm.java

3.125 com.radaee.pdf.ResGState Class Reference

Protected Attributes

- long **hand**

3.125.1 Detailed Description

Created by radaee on 2015/7/16.

The documentation for this class was generated from the following file:

- ResGState.java

3.126 com.radaee.pdf.ResImage Class Reference

Protected Attributes

- long **hand**

3.126.1 Detailed Description

Created by radaee on 2015/7/16.

The documentation for this class was generated from the following file:

- ResImage.java

3.127 com.radaee.pdf.Sign Class Reference

Public Member Functions

- String **GetIssue** ()
- String **GetSubject** ()
- long **GetVersion** ()
- String **GetName** ()
- String **GetLocation** ()
- String **GetReason** ()
- String **GetContact** ()
- String **GetModDateTime** ()

Protected Attributes

- long **m_hand**

3.127.1 Detailed Description

Created by lyz on 2017/6/3.

3.127.2 Member Function Documentation

3.127.2.1 GetContact()

String com.radaee.pdf.Sign.GetContact ()

sign contact string

Returns

contact address or phone.

3.127.2.2 GetLocation()

String com.radaee.pdf.Sign.GetLocation ()

sign location.

Returns

location description.

3.127.2.3 GetModDateTime()

```
String com.radaee.pdf.Sign.GetModDateTime ( )
```

sign date time

Returns

date time.

3.127.2.4 GetName()

```
String com.radaee.pdf.Sign.GetName ( )
```

get signer name.

Returns

name string.

3.127.2.5 GetReason()

```
String com.radaee.pdf.Sign.GetReason ( )
```

sign reason

Returns

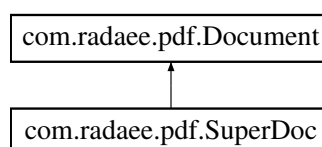
reason string

The documentation for this class was generated from the following file:

- Sign.java

3.128 com.radaee.pdf.SuperDoc Class Reference

Inheritance diagram for com.radaee.pdf.SuperDoc:



Classes

- class **DocInfo**
- class **PageInfo**

Public Member Functions

- [SuperDoc](#) (DocInfo[] pdfs, boolean legacy)
- boolean [IsOpened](#) ()
- int [Create](#) (String path)
- int [CreateForStream](#) (PDFStream stream)
- boolean [SetCache](#) (String path)
- void [SetFontDel](#) (PDFFontDelegate del)
- int [Open](#) (String path, String password)
- int [OpenMem](#) (byte[] data, String password)
- int [OpenStream](#) (PDFStream stream, String password)
- int [GetPermission](#) ()
- int [GetPerm](#) ()
- String [ExportForm](#) ()
- void [Close](#) ()
- [Page](#) [GetPage](#) (int pageno)
- int [GetPageCount](#) ()
- float [GetPageWidth](#) (int pageno)
- float [GetPageHeight](#) (int pageno)
- String [GetMeta](#) (String tag)
- byte[] [GetID](#) (int index)
- boolean [SetMeta](#) (String tag, String val)
- [Outline](#) [GetOutlines](#) ()
- boolean [CanSave](#) ()
- boolean [Save](#) ()
- boolean [SaveAs](#) (String path, boolean rem_sec)
- boolean [EncryptAs](#) (String dst, String upswd, String opswd, int perm, int method, byte[] id)
- boolean [IsEncrypted](#) ()
- boolean [NewRootOutline](#) (String label, int pageno, float top)
- ImportContext [ImportStart](#) (Document src)
- boolean [ImportPage](#) (ImportContext ctx, int srcno, int dstno)
- [Page](#) [NewPage](#) (int pageno, float w, float h)
- boolean [RemovePage](#) (int pageno)
- boolean [MovePage](#) (int pageno1, int pageno2)
- [DocFont](#) [NewFontCID](#) (String font_name, int style)
- [DocGState](#) [NewGState](#) ()
- [DocImage](#) [NewImage](#) (Bitmap bmp, boolean has_alpha)
- [DocImage](#) [NewImageJPEG](#) (String path)
- [DocImage](#) [NewImageJPX](#) (String path)
- boolean [ChangePageRect](#) (int pageno, float dl, float dt, float dr, float db)
- boolean [SetPageRotate](#) (int pageno, int degree)
- byte[] [GetSignContents](#) ()
- String [GetSignFilter](#) ()
- String [GetSignSubFilter](#) ()
- int[] [GetSignByteRange](#) ()
- int [CheckSignByteRange](#) ()
- float[] [GetPagesMaxSize](#) ()
- [Page](#) [GetPage0](#) ()
- long [CreateVNPage](#) (int pageno, int cw, int ch, Bitmap.Config format)

Protected Member Functions

- void `finalize()` throws Throwable

Additional Inherited Members

3.128.1 Detailed Description

managed many Documents as 1 [Document](#) object.

Author

radaee

3.128.2 Constructor & Destructor Documentation

3.128.2.1 SuperDoc()

```
com.radaee.pdf.SuperDoc.SuperDoc (
    DocInfo[] pdfs,
    boolean legacy )
```

Initialize [SuperDoc](#) object

Parameters

<i>pdfs</i>	all information of PDF files.
<i>legacy</i>	is legacy mode? in legacy mode, all documents will open in constructor, and keep document objects till close(). if not in legacy mode, document objects will load in dynamic way, that mean less memory cost, but may slower that legacy mode.

3.128.3 Member Function Documentation

3.128.3.1 CanSave()

```
boolean com.radaee.pdf.SuperDoc.CanSave ( )
```

check if document can be modified or saved.
this always return false, if no license activated.

Returns

true or false.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.2 ChangePageRect()

```
boolean com.radaee.pdf.SuperDoc.ChangePageRect (
    int pageno,
    float dl,
    float dt,
    float dr,
    float db )
```

change page rect.

a premium license is needed for this method.

Parameters

<i>pageno</i>	0 based page NO.
<i>dl</i>	delta to left, page_left += dl;
<i>dt</i>	delta to top, page_top += dt;
<i>dr</i>	delta to right, page_right += dr;
<i>db</i>	delta to bottom, page_bottom += db;

Returns

true or false.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.3 CheckSignByteRange()

```
int com.radaee.pdf.SuperDoc.CheckSignByteRange ( )
```

check object defined in signature("Data" entry), is in byte ranges defined in signature. this method valid in professional or premium version.

to ensure PDF file modified, mostly you shall(Adobe Standard):

1. invoke this method first.
2. if succeeded, then get signature contents(see GetSignContents).

3. decode public key from contents(see `GetSignContents`).
4. decode encrypted digest from contents.
5. decrypt digest.1 using public key, for step 4.
6. calculate digest.2 by yourself, using `byte ranges(GetSignByteRange)`.
7. check `digest.1 == digest.2`

Returns

- 1: unknown or not defined in signature.
- 0: check failed, means modified.
- 1: check succeeded, means no new objects after signature.

3.128.3.4 Close()

```
void com.radaee.pdf.SuperDoc.Close ( )
```

close the document.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.5 Create()

```
int com.radaee.pdf.SuperDoc.Create (
    String path )
```

create a empty PDF document

Parameters

<i>path</i>	path to create
-------------	----------------

Returns

0 or less than 0 means failed, same as `Open`.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.6 CreateForStream()

```
int com.radaee.pdf.SuperDoc.CreateForStream (
    PDFStream stream )
```

create a empty PDF document

Parameters

<i>stream</i>	stream to create
---------------	------------------

Returns

0 or less than 0 means failed, same as Open.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.7 CreateVNPage()

```
long com.radaee.pdf.SuperDoc.CreateVNPage (
    int pageno,
    int cw,
    int ch,
    Bitmap.Config format )
```

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.8 EncryptAs()

```
boolean com.radaee.pdf.SuperDoc.EncryptAs (
    String dst,
    String upswd,
    String opswd,
    int perm,
    int method,
    byte[] id )
```

encrypt document and save as the document to another file.
this method need premium license.

Parameters

<i>dst</i>	path to save, same as path parameter of SaveAs.
<i>upswd</i>	user password, can be null.
<i>opswd</i>	owner password, can be null.
<i>perm</i>	permission to set, same as GetPermission() method. bit 1-2 reserved bit 3(0x4) print bit 4(0x8) modify bit 5(0x10) extract text or image others: see PDF reference
<i>method</i>	reserved, currently only AES with V=4 and R=4 mode can be working.
<i>id</i>	must be 32 bytes for file ID. it is divided to 2 array in native library, as each 16 bytes

Returns

true or false.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.9 ExportForm()

```
String com.radaee.pdf.SuperDoc.ExportForm ( )
```

export form data as xml string.
this method need premium license.

Returns

xml string or null.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.10 finalize()

```
void com.radaee.pdf.SuperDoc.finalize ( ) throws Throwable [protected]
```

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.11 GetID()

```
byte[] com.radaee.pdf.SuperDoc.GetID (
    int index )
```

get id of document.

Parameters

<i>index</i>	must 0 or 1, 0 means first 16 bytes, 1 means last 16 bytes.
--------------	---

Returns

bytes or null if no id for this document.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.12 GetMeta()

```
String com.radaee.pdf.SuperDoc.GetMeta (
    String tag )
```

get meta data of document.

Parameters

<i>tag</i>	Predefined values:"Title", "Author", "Subject", "Keywords", "Creator", "Producer", "CreationDate", "ModDate". or you can pass any key that self-defined.
------------	---

Returns

Meta string value, or null.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.13 GetOutlines()

```
Outline com.radaee.pdf.SuperDoc.GetOutlines ( )
```

get first root outline item.

Returns

handle value of first root outline item. or null if no outlines.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.14 GetPage()

```
Page com.radaee.pdf.SuperDoc.GetPage (
    int pageno )
```

get a [Page](#) object for page NO.

Parameters

<i>pageno</i>	0 based page NO. range:[0, GetPageCount() -1]
---------------	---

Returns

[Page](#) object

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.15 GetPage0()

[Page](#) `com.radaee.pdf.SuperDoc.GetPage0 ( )`

fast get first page, used in first page thumbnail generating.
do not use this method for other purpose.

Returns

[Page](#) object or null.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.16 GetPageCount()

`int com.radaee.pdf.SuperDoc.GetPageCount ( )`

get pages count.

Returns

pages count.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.17 GetPageHeight()

`float com.radaee.pdf.SuperDoc.GetPageHeight (`
`int pageno )`

get page height by page NO.

Parameters

<i>pageno</i>	0 based page NO. range:[0, GetPageCount() -1]
---------------	---

Returns

height value.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.18 GetPagesMaxSize()

```
float[] com.radaee.pdf.SuperDoc.GetPagesMaxSize ( )
```

get max width and max height of all pages.

Returns

2 elements container width and height values, or null if failed.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.19 GetPageWidth()

```
float com.radaee.pdf.SuperDoc.GetPageWidth (
    int pageno )
```

get page width by page NO.

Parameters

<i>pageno</i>	0 based page NO. range:[0, GetPageCount() -1]
---------------	---

Returns

width value.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.20 GetPerm()

```
int com.radaee.pdf.SuperDoc.GetPerm ( )
```

get permission of PDF, this value defined in "Perm" entry in Catalog object.
mostly, it means the permission from signature.
this method need a professional or premium license.

Returns

- 0 means not defined
- 1 means can't modify
- 2 means can modify some form fields
- 3 means can do any modify

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.21 GetPermission()

```
int com.radaee.pdf.SuperDoc.GetPermission ( )
```

get permission of PDF, this value defined in PDF reference 1.7
mostly, it means the permission from encryption.
this method need a professional or premium license. bit 1-2 reserved
bit 3(0x4) print
bit 4(0x8) modify
bit 5(0x10) extract text or image
others: see PDF reference

Returns

permission flags

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.22 GetSignByteRange()

```
int[] com.radaee.pdf.SuperDoc.GetSignByteRange ( )
```

get byte ranges from PDF file, to get digest.
this method valid in professional or premium version.

Returns

an integer pair array, to record byte ranges.
each pair describing a range to digest.
1st element of pair is offset.
2nd element of pair is length.

3.128.3.23 GetSignContents()

```
byte[] com.radaee.pdf.SuperDoc.GetSignContents ( )
```

get signature contents. mostly an encrypted digest.
this method valid in professional or premium version.

Returns

byte array which format depends on Filter and SubFilter.
or null, if not signed for document.

3.128.3.24 GetSignFilter()

```
String com.radaee.pdf.SuperDoc.GetSignFilter ( )
```

get signature filter name.
this method valid in professional or premium version.

Returns

The name of the preferred signature handler to use.
Example signature handlers are "Adobe.PPKLite", "Entrust.PPKEF", "CICL.SignIt", and "VeriSign.
PPKVS".
others maybe user defined.

3.128.3.25 GetSignSubFilter()

```
String com.radaee.pdf.SuperDoc.GetSignSubFilter ( )
```

get sub filter name of signature.
this method valid in professional or premium version.

Returns

name that describes the encoding of the signature value and key information in the signature dictionary.
like "adbe.x509.rsa_sha1", "adbe.pkcs7.detached", and "adbe.pkcs7.sha1"
others maybe user defined.

3.128.3.26 ImportPage()

```
boolean com.radaee.pdf.SuperDoc.ImportPage (
    ImportContext ctx,
    int srcno,
    int dstno )
```

import a page to the document.
a premium license is needed for this method.
do not forget to invoke ImportContext.Destroy() after all pages are imported.

Parameters

<i>ctx</i>	context object created from ImportStart
<i>srcno</i>	0 based page NO. from source Document that passed to ImportStart.
<i>dstno</i>	0 based page NO. to insert in this document object.

Returns

true or false.

3.128.3.27 ImportStart()

```
ImportContext com.radaee.pdf.SuperDoc.ImportStart (  
    Document src )
```

Start import operations, import page from src
a premium license is needed for this method.
you shall maintenance the source [Document](#) object until all pages are imported and ImportContext.Destroy()
invoked.

Parameters

<i>src</i>	source Document object that opened.
------------	---

Returns

a context object used in ImportPage.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.28 IsEncrypted()

```
boolean com.radaee.pdf.SuperDoc.IsEncrypted ( )
```

check if document is encrypted.

Returns

true or false.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.29 IsOpened()

```
boolean com.radaee.pdf.SuperDoc.IsOpened ( )
```

check if opened.

Returns

true or false.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.30 MovePage()

```
boolean com.radaee.pdf.SuperDoc.MovePage (
    int pageno1,
    int pageno2 )
```

move the page to other position.

a premium license is needed for this method.

Parameters

<i>pageno1</i>	page NO, move from
<i>pageno2</i>	page NO, move to

Returns

true or false

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.31 NewFontCID()

```
DocFont com.radaee.pdf.SuperDoc.NewFontCID (
    String font_name,
    int style )
```

create a font object, used to write texts.

a premium license is needed for this method.

Parameters

<i>font_name</i>	font name exists in font list. using <code>Global.getFaceCount()</code> , <code>Global.getFaceName()</code> to enumerate fonts.
<i>style</i>	(<i>style&1</i>) means bold, (<i>style&2</i>) means Italic, (<i>style&8</i>) means embed, (<i>style&16</i>) means vertical writing, mostly used in Asia fonts.

Returns

DocFont object or null is failed.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.32 NewGState()

DocGState `com.radaee.pdf.SuperDoc.NewGState ( )`

create a ExtGraphicState object, used to set alpha values.
a premium license is needed for this method.

Returns

DocGState object or null.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.33 NewImage()

DocImage `com.radaee.pdf.SuperDoc.NewImage (`
 `Bitmap bmp,`
 `boolean has_alpha )`

create an image from Bitmap object.
a premium license is needed for this method.

Parameters

<i>bmp</i>	Bitmap object in ARGB_8888 format.
<i>has_alpha</i>	generate alpha channel information?

Returns

DocImage object or null.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.34 NewImageJPEG()

DocImage `com.radaee.pdf.SuperDoc.NewImageJPEG (`
 `String path )`

create an image from JPEG/JPG file.

supported image color space:

-GRAY

-RGB

-CMYK

a premium license is needed for this method.

Parameters

<i>path</i>	path to JPEG file.
-------------	--------------------

Returns

DocImage object or null.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.35 NewImageJPX()

```
DocImage com.radaee.pdf.SuperDoc.NewImageJPX (  
    String path )
```

create an image from JPX/JPEG 2k file.

a premium license is needed for this method.

Parameters

<i>path</i>	path to JPX file.
-------------	-------------------

Returns

DocImage object or null.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.36 NewPage()

```
Page com.radaee.pdf.SuperDoc.NewPage (  
    int pageno,  
    float w,  
    float h )
```

insert a page to [Document](#)

if pageno >= page_count, it do same as append.

otherwise, insert to pageno.

a premium license is needed for this method.

Parameters

<i>pageno</i>	0 based page NO.
<i>w</i>	page width in PDF coordinate
<i>h</i>	page height in PDF coordinate

Returns

[Page](#) object or null means failed.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.37 NewRootOutline()

```
boolean com.radaee.pdf.SuperDoc.NewRootOutline (
    String label,
    int pageno,
    float top )
```

new a root outline to document, it insert first root outline to [Document](#).
the old first root outline, shall be next of this outline.

Parameters

<i>label</i>	label to display
<i>pageno</i>	pageno to jump
<i>top</i>	y position in PDF coordinate

Returns

true or false

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.38 Open()

```
int com.radaee.pdf.SuperDoc.Open (
    String path,
    String password )
```

open document.
first time, SDK try password as user password, and then try password as owner password.

Parameters

<i>path</i>	PDF file to be open.
<i>password</i>	password or null.

Returns

error code:
0:succeeded, and continue
-1:need input password
-2:unknown encryption
-3:damaged or invalid format
-10:access denied or invalid file path
others:unknown error

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.39 OpenMem()

```
int com.radaee.pdf.SuperDoc.OpenMem (
    byte[] data,
    String password )
```

open document in memory. first time, SDK try password as user password, and then try password as owner password.

Parameters

<i>data</i>	data for whole PDF file in byte array. developers should retain array data, till document closed.
<i>password</i>	password or null.

Returns

error code:
0:succeeded, and continue
-1:need input password
-2:unknown encryption
-3:damaged or invalid format
-10:access denied or invalid file path
others:unknown error

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.40 OpenStream()

```
int com.radaee.pdf.SuperDoc.OpenStream (
    PDFStream stream,
    String password )
```

open document from stream. first time, SDK try password as user password, and then try password as owner password.

Parameters

<i>stream</i>	PDFStream object.
<i>password</i>	password or null.

Returns

error code:
0:succeeded, and continue
-1:need input password
-2:unknown encryption
-3:damaged or invalid format
-10:access denied or invalid file path
others:unknown error

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.41 RemovePage()

```
boolean com.radaee.pdf.SuperDoc.RemovePage (
    int pageno )
```

remove page by page NO.
a premium license is needed for this method.

Parameters

<i>pageno</i>	0 based page NO.
---------------	------------------

Returns

true or false

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.42 Save()

```
boolean com.radaee.pdf.SuperDoc.Save ( )
```

save the document.
this always return false, if no license activated.

Returns

true or false

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.43 SaveAs()

```
boolean com.radaee.pdf.SuperDoc.SaveAs (
    String path,
    boolean rem_sec )
```

save as the document to another file.
this method need professional or premium license.

Parameters

<i>path</i>	path to save.
<i>rem_sec</i>	remove security info?

Returns

true or false.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.44 SetCache()

```
boolean com.radaee.pdf.SuperDoc.SetCache (
    String path )
```

set cache file to PDF.
a premium license is needed for this method.

Parameters

<i>path</i>	a path to save some temporary data, compressed images and so on
-------------	---

Returns

true or false

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.45 SetFontDel()

```
void com.radaee.pdf.SuperDoc.SetFontDel (
    PDFFontDelegate del )
```

set font delegate to PDF.
a professional or premium license is needed for this method.

Parameters

<i>del</i>	delegate for font mapping, or null to remove delegate.
------------	--

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.46 SetMeta()

```
boolean com.radaee.pdf.SuperDoc.SetMeta (
    String tag,
    String val )
```

set meta data for document.
this method valid only in premium version.

Parameters

<i>tag</i>	Predefined values:"Title", "Author", "Subject", "Keywords", "Creator", "Producer", "CreationDate", "ModDate". or you can pass any key that self-defined.
<i>val</i>	string value.

Returns

true or false.

Reimplemented from [com.radaee.pdf.Document](#).

3.128.3.47 SetPageRotate()

```
boolean com.radaee.pdf.SuperDoc.SetPageRotate (
    int pageno,
    int degree )
```

set page rotate.
a premium license is needed for this method.

Parameters

<i>pageno</i>	0 based page NO.
<i>degree</i>	rotate angle in degree, must be 90 * n.

Returns

true or false

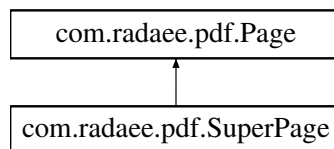
Reimplemented from [com.radaee.pdf.Document](#).

The documentation for this class was generated from the following file:

- SuperDoc.java

3.129 com.radaee.pdf.SuperPage Class Reference

Inheritance diagram for com.radaee.pdf.SuperPage:



Public Member Functions

- **SuperPage** ([Page](#) page, SuperDoc.DocInfo dinfo)
- void [Close](#) ()

Additional Inherited Members

3.129.1 Member Function Documentation

3.129.1.1 Close()

```
void com.radaee.pdf.SuperPage.Close ( )
```

Close page object and free memory.

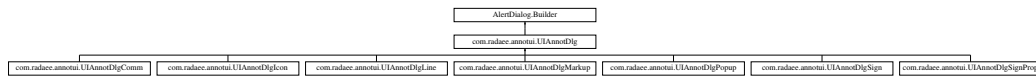
Reimplemented from [com.radaee.pdf.Page](#).

The documentation for this class was generated from the following file:

- SuperPage.java

3.130 com.radaee.annotui.UIAnnotDlg Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotDlg:



Public Member Functions

- **UIAnnotDlg** (RelativeLayout view)

Protected Attributes

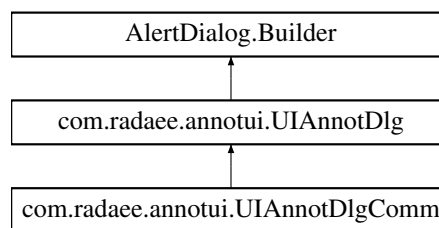
- Page.Annotation **m_annot**
- RelativeLayout **m_layout**
- UIAnnotMenu.IMemnuCallback **m_callback**

The documentation for this class was generated from the following file:

- UIAnnotDlg.java

3.131 com.radaee.annotui.UIAnnotDlgComm Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotDlgComm:



Public Member Functions

- **UIAnnotDlgComm** (Context ctx)

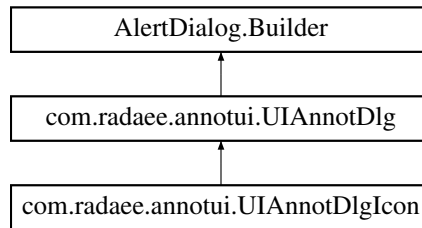
Additional Inherited Members

The documentation for this class was generated from the following file:

- UIAnnotDlgComm.java

3.132 com.radaee.annotui.UIAnnotDlgIcon Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotDlgIcon:



Public Member Functions

- **UIAnnotDlgIcon** (Context ctx)

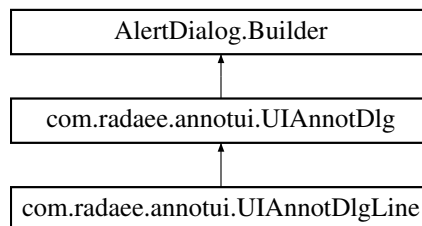
Additional Inherited Members

The documentation for this class was generated from the following file:

- UIAnnotDlgIcon.java

3.133 com.radaee.annotui.UIAnnotDlgLine Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotDlgLine:



Public Member Functions

- **UIAnnotDlgLine** (Context ctx)

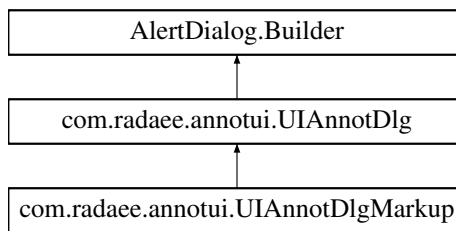
Additional Inherited Members

The documentation for this class was generated from the following file:

- UIAnnotDlgLine.java

3.134 com.radaee.annotui.UIAnnotDlgMarkup Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotDlgMarkup:



Public Member Functions

- **UIAnnotDlgMarkup** (Context ctx)

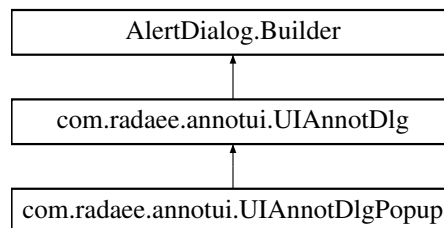
Additional Inherited Members

The documentation for this class was generated from the following file:

- UIAnnotDlgMarkup.java

3.135 com.radaee.annotui.UIAnnotDlgPopup Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotDlgPopup:



Public Member Functions

- **UIAnnotDlgPopup** (Context ctx)

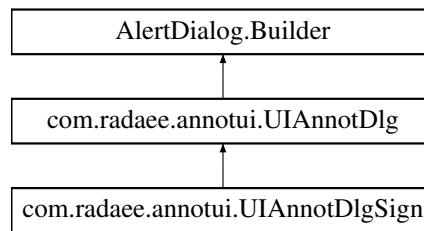
Additional Inherited Members

The documentation for this class was generated from the following file:

- UIAnnotDlgPopup.java

3.136 com.radaee.annotui.UIAnnotDlgSign Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotDlgSign:



Public Member Functions

- **UIAnnotDlgSign** (final Context ctx)
- void **show** (Page.Annotation annot, [Document](#) doc, UIAnnotMenu.IMemnuCallback callBack)

Static Public Member Functions

- static float **dp2px** (Context context, float dpValue)

Protected Member Functions

- void **forceWrapContent** (View v)

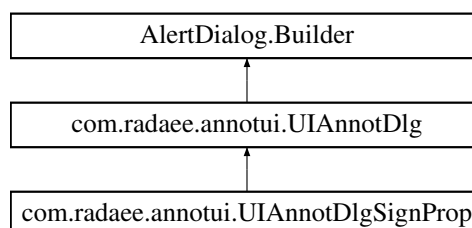
Additional Inherited Members

The documentation for this class was generated from the following file:

- UIAnnotDlgSign.java

3.137 com.radaee.annotui.UIAnnotDlgSignProp Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotDlgSignProp:



Public Member Functions

- **UIAnnotDlgSignProp** (Context ctx)
- void **show** (Page.Annotation annot, [Document](#) doc, UIAnnotMenu.IMemnuCallback callback)

Additional Inherited Members

The documentation for this class was generated from the following file:

- UIAnnotDlgSignProp.java

3.138 com.radaee.annotui.UIAnnotMenu Class Reference

Classes

- interface [IMemnuCallback](#)

Public Member Functions

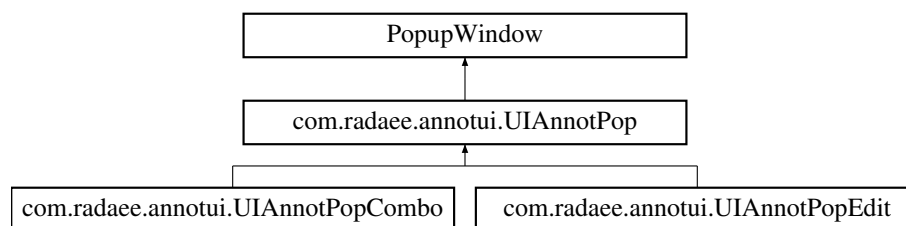
- **UIAnnotMenu** (RelativeLayout parent)
- boolean **show** (Page.Annotation annot, float[] annot_rect, [IMemnuCallback](#) callback)
- void **hide** ()

The documentation for this class was generated from the following file:

- UIAnnotMenu.java

3.139 com.radaee.annotui.UIAnnotPop Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotPop:



Public Member Functions

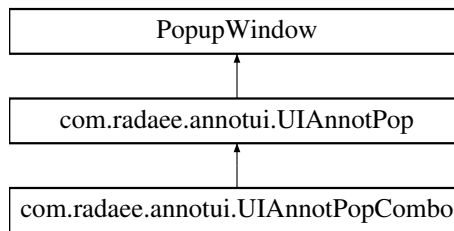
- **UIAnnotPop** (View view)
- **UIAnnotPop** (View view, int w, int h)
- View **findView** (int id)
- void **show** (View parent, int x, int y)

The documentation for this class was generated from the following file:

- UIAnnotPop.java

3.140 com.radaee.annotui.UIAnnotPopCombo Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotPopCombo:



Public Member Functions

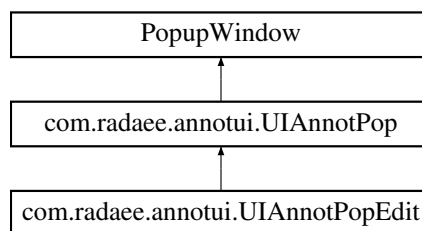
- **UIAnnotPopCombo** (View parent)
- void **update** (Page.Annotation annot, float annot_rect[])
- int **getSellItem** ()

The documentation for this class was generated from the following file:

- UIAnnotPopCombo.java

3.141 com.radaee.annotui.UIAnnotPopEdit Class Reference

Inheritance diagram for com.radaee.annotui.UIAnnotPopEdit:



Public Member Functions

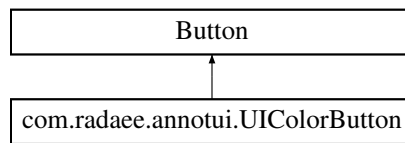
- **UIAnnotPopEdit** (View parent)
- void **update** (Page.Annotation annot, float annot_rect[], float scale)
- String **getEditText** ()
- int **getContentHeight** ()

The documentation for this class was generated from the following file:

- UIAnnotPopEdit.java

3.142 com.radaee.annotui.UIColorButton Class Reference

Inheritance diagram for com.radaee.annotui.UIColorButton:



Public Member Functions

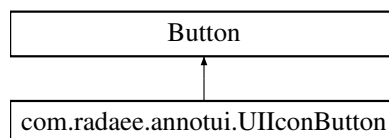
- **UIColorButton** (Context context)
- **UIColorButton** (Context context, AttributeSet attrs)
- void **setColor** (int color)
- int **getColor** ()
- void **setColorEnable** (boolean enable)
- boolean **getColorEnable** ()
- void **setColorMode** (boolean mode)

The documentation for this class was generated from the following file:

- UIColorButton.java

3.143 com.radaee.annotui.UIIconButton Class Reference

Inheritance diagram for com.radaee.annotui.UIIconButton:



Public Member Functions

- **UIIconButton** (Context context)
- **UIIconButton** (Context context, AttributeSet attrs)
- void **load** (Page.Annotation annot)
- int **getIcon** ()
- void **setIcon** (int icon)

Protected Member Functions

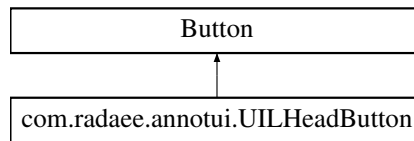
- void **onDraw** (Canvas canvas)

The documentation for this class was generated from the following file:

- UIIconButton.java

3.144 com.radaee.annotui.UILHeadButton Class Reference

Inheritance diagram for com.radaee.annotui.UILHeadButton:



Public Member Functions

- **UILHeadButton** (Context context)
- **UILHeadButton** (Context context, AttributeSet attrs)

Protected Member Functions

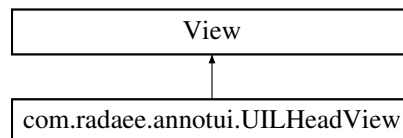
- void **onDraw** (Canvas canvas)
- void **setStyle** (int style)
- int **getStyle** ()

The documentation for this class was generated from the following file:

- UILHeadButton.java

3.145 com.radaee.annotui.UILHeaderView Class Reference

Inheritance diagram for com.radaee.annotui.UILHeaderView:



Public Member Functions

- **UILHeaderView** (Context context)
- **UILHeaderView** (Context context, AttributeSet attrs)

Protected Member Functions

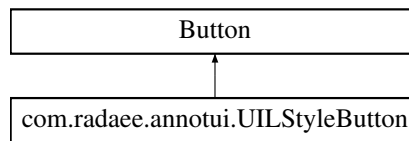
- void **onDraw** (Canvas canvas)
- void **setStyle** (int style)
- int **getStyle** ()

The documentation for this class was generated from the following file:

- UILHeaderView.java

3.146 com.radaee.annotui.UILStyleButton Class Reference

Inheritance diagram for com.radaee.annotui.UILStyleButton:



Public Member Functions

- **UILStyleButton** (Context context)
- **UILStyleButton** (Context context, @Nullable AttributeSet attrs)

Protected Member Functions

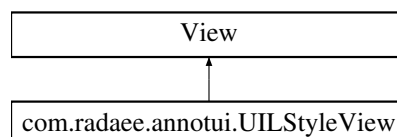
- void **setDash** (float[] dashes)
- float[] **getDash** ()
- void **onDraw** (Canvas canvas)

The documentation for this class was generated from the following file:

- UILStyleButton.java

3.147 com.radaee.annotui.UILStyleView Class Reference

Inheritance diagram for com.radaee.annotui.UILStyleView:



Public Member Functions

- **UILStyleView** (Context context)
- **UILStyleView** (Context context, @Nullable AttributeSet attrs)

Protected Member Functions

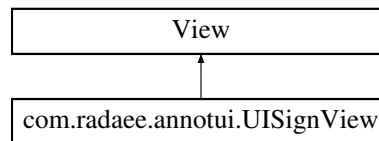
- void **setDash** (float[] dashes)
- float[] **getDash** ()
- void **onDraw** (Canvas canvas)

The documentation for this class was generated from the following file:

- UILStyleView.java

3.148 com.radaee.annotui.UISignView Class Reference

Inheritance diagram for com.radaee.annotui.UISignView:



Public Member Functions

- **UISignView** (Context context)
- **UISignView** (Context context, AttributeSet attrs)
- void **SignSetParameter** (int color, float width)
- [com.radaee.pdf.Path](#) **SignGetPath** ()
- Bitmap **SignGetBmp** ()
- Document.DocForm **SignMakeForm** ([Document](#) doc, Page.Annotation annot)
- boolean **onTouchEvent** (MotionEvent event)

Protected Member Functions

- void **onDraw** (Canvas canvas)

The documentation for this class was generated from the following file:

- UISignView.java

3.149 com.radaee.view.VFinder Class Reference

Protected Member Functions

- void **find_start** ([Document](#) doc, int page_start, String str, boolean match_case, boolean whole)
- void **find_start** ([Document](#) doc, int page_start, String str, boolean match_case, boolean whole, boolean skipBlank)
- int **find_prepare** (int dir)
- int **find** ()
- float[] **find_get_pos** ()
- void **find_draw** (Canvas canvas, [VPage](#) page, int scrollx, int scrolly)
- void **find_draw** (Canvas canvas, [GLPage](#) page, int scrollx, int scrolly)
- final int **find_get_page** ()
- void **find_end** ()

3.149.1 Detailed Description

Inner class.
developer should not use this.

The documentation for this class was generated from the following file:

- VFinder.java

3.150 com.radaee.pdf.VNBlock Class Reference

Static Public Member Functions

- static native void **destroy** (long block)
- static void **Render** (long block)
- static native Bitmap **bmp** (long block)
- static native int **getSta** (long block)
- static native int **getPageNO** (long block)

3.150.1 Detailed Description

Created by radaee on 2017/11/21.

The documentation for this class was generated from the following file:

- VNBlock.java

3.151 com.radaee.pdf.VNCache Class Reference

Static Public Member Functions

- static native void **destroy** (long vcache)
- static native void **render** (long vcache, boolean unload)
- static native int **getNO** (long vcache)

3.151.1 Detailed Description

Created by radaee on 2017/11/16.

The documentation for this class was generated from the following file:

- VNCache.java

3.152 com.radaee.pdf.VNPage Class Reference

Classes

- interface [VNPageListener](#)

Static Public Member Functions

- static native void **destroy** (long vpage, [VNPageListener](#) callback)
- static native boolean **blkRendered** (long vpage)
- static native boolean **blkDraw** (long vpage, [VNPageListener](#) callback, Canvas canvas, float pdfx1, float pdfy1, float pdfx2, float pdfy2, int x, int y)
- static native void **blkStart** (long vpage, [VNPageListener](#) callback, float pdfx1, float pdfy1, float pdfx2, float pdfy2)
- static native void **blkStart0** (long vpage, [VNPageListener](#) callback, float pdfx, float pdfy)
- static native void **blkStart1** (long vpage, [VNPageListener](#) callback)
- static native void **blkStart2** (long vpage, [VNPageListener](#) callback, float pdfx, float pdfy)
- static native void **blkEnd** (long vpage, [VNPageListener](#) callback)
- static native int **getPageNo** (long vpage)
- static native int **getX** (long vpage)
- static native void **setX** (long vpage, int x)
- static native int **getY** (long vpage)
- static native int **getWidth** (long vpage)
- static native int **getHeight** (long vpage)
- static native int **getVX** (long vpage, float pdfx)
- static native int **getVY** (long vpage, float pdfy)
- static native float **getPDFX** (long vpage, int vx)
- static native float **getPDFY** (long vpage, int vy)
- static native float **toPDFX** (long vpage, float x, float scrollx)
- static native float **toPDFY** (long vpage, float y, float scrolly)
- static native float **toDIBX** (long vpage, float x)
- static native float **toDIBY** (long vpage, float y)
- static native float **toPDFSize** (long vpage, float val)
- static native int **locVert** (long vpage, int y, int gap_half)
- static native int **lovHorz** (long vpage, int x, int gap_half)
- static native void **layout** (long vpage, int x, int y, float scale, boolean clip)
- static native void **clips** (long vpage, [VNPageListener](#) callback, boolean clip)
- static native void **endPage** (long vpage, [VNPageListener](#) callback)
- static native boolean **finished** (long vpage)
- static native void **renderAsync** (long vpage, [VNPageListener](#) callback, int vx, int vy, int vw, int vh)
- static native void **renderSync** (long vpage, [VNPageListener](#) callback, int vx, int vy, int vw, int vh)
- static long **Draw** (long vpage, [VNPageListener](#) callback, [BMP](#) bmp, int vx, int vy)
- static native boolean **drawStep1** (long vpage, [VNPageListener](#) callback, Canvas canvas, long result)
- static void **DrawStep2** (long vpage, [BMP](#) bmp, long result)
- static native void **resultDestroy** (long result)
- static void **ZoomStart** (long vpage, [BMP](#) bmp, int bits)
- static native void **zoomConfirm** (long vpage, [VNPageListener](#) callback, int vx, int vy, int vw, int vh)
- static [Matrix](#) **InvertMatrix** (long vpage, float scrollx, float scrolly)

Static Protected Member Functions

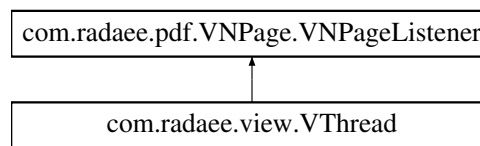
- static native long **create** (long doc, int pageno, int cw, int ch, [Bitmap.Config](#) format)
- static native long **createFromSuperDoc** (long super_doc, int pageno, int cw, int ch, [Bitmap.Config](#) format)

The documentation for this class was generated from the following file:

- [VNPage.java](#)

3.153 com.radaee.pdf.VNPage.VNPageListener Interface Reference

Inheritance diagram for com.radaee.pdf.VNPage.VNPageListener:



Public Member Functions

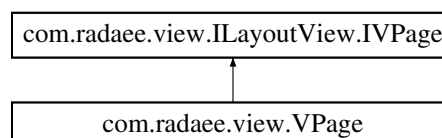
- void **Render** (long vcache)
- void **Dealloc** (long vcache)
- void **BlkRender** (long block)
- void **BlkDealloc** (long block)
- boolean **Draw** (long block, Canvas canvas, int src_left, int src_top, int src_right, int src_bottom, int dst_left, int dst_top, int dst_right, int dst_bottom)

The documentation for this interface was generated from the following file:

- VNPage.java

3.154 com.radaee.view.VPage Class Reference

Inheritance diagram for com.radaee.view.VPage:



Public Member Functions

- final int [GetPageNo](#) ()
- final int [GetVX](#) (float pdfx)
- final int [GetVY](#) (float pdfy)
- float **vGetScale** ()
- final float [ToPDFX](#) (float x, float scrollx)
- final float [ToPDFY](#) (float y, float scrolly)
- final float [ToDIBX](#) (float x)
- final float [ToDIBY](#) (float y)
- final float [ToPDFSize](#) (float val)
- final [Matrix](#) [CreateInvertMatrix](#) (float scrollx, float scrolly)

Protected Member Functions

- **VPage** ([Document](#) doc, int pageno, int cw, int ch, Bitmap.Config bmp_format)
- final int **GetX** ()
- final void **SetX** (int x)
- final int **GetY** ()
- final int **GetWidth** ()
- final int **GetHeight** ()
- final float **GetPDFX** (int vx)
- final float **GetPDFY** (int vy)
- int **LocVert** (int y, int gap_half)
- int **LocHorz** (int x, int gap_half)
- void **vDestroy** (VNPage.VNPageListener callback)
- void **vLayout** (int x, int y, float scale, boolean clip)
- void **vClips** (VNPage.VNPageListener callback, boolean clip)
- void **vEndPage** (VNPage.VNPageListener callback)
- boolean **vFinished** ()
- void **vRenderAsync** (VNPage.VNPageListener callback, int vx, int vy, int vw, int vh)
- void **vRenderSync** (VNPage.VNPageListener callback, int vx, int vy, int vw, int vh)
- void **vCacheStart** (VNPage.VNPageListener callback, float pdfx1, float pdfy1, float pdfx2, float pdfy2)
- void **vCacheStart0** (VNPage.VNPageListener callback, float pdfx, float pdfy)
- void **vCacheStart1** (VNPage.VNPageListener callback)
- void **vCacheStart2** (VNPage.VNPageListener callback, float pdfx, float pdfy)
- void **vCacheEnd** (VNPage.VNPageListener callback)
- void **vDraw** (VNPage.VNPageListener callback, [BMP](#) bmp, int vx, int vy)
- boolean **vDrawStep1** (VNPage.VNPageListener callback, Canvas canvas)
- void **vDrawStep2** ([BMP](#) bmp)
- void **vDrawEnd** ()
- void **vDraw** (VNPage.VNPageListener callback, Canvas canvas, int vx, int vy)
- void **vZoomStart** (Bitmap.Config bmp_format)
- void **vZoomConfirmed** (VNPage.VNPageListener callback, int vx, int vy, int vw, int vh)
- void **vZoomEnd** ()

3.154.1 Member Function Documentation

3.154.1.1 CreateInvertMatrix()

```
final Matrix com.radaee.view.VPage.CreateInvertMatrix (
    float scrollx,
    float scrolly )
```

create an Inverted Matrix maps screen coordinate to PDF coordinate.

Parameters

<i>scrollx</i>	current x for PDFView
<i>scrolly</i>	current y for PDFView

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.154.1.2 GetPageNo()

```
final int com.radaee.view.VPage.GetPageNo ( )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.154.1.3 GetVX()

```
final int com.radaee.view.VPage.GetVX (
    float pdfx )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.154.1.4 GetVY()

```
final int com.radaee.view.VPage.GetVY (
    float pdfy )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.154.1.5 ToDIBX()

```
final float com.radaee.view.VPage.ToDIBX (
    float x )
```

map x to DIB coordinate

Parameters

x	x position in PDF coordinate
---	------------------------------

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.154.1.6 ToDIBY()

```
final float com.radaee.view.VPage.ToDIBY (
    float y )
```

map y to DIB coordinate

Parameters

y	y position in PDF coordinate
---	------------------------------

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.154.1.7 ToPDFSize()

```
final float com.radaee.view.VPage.ToPDFSize (
    float val )
```

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.154.1.8 ToPDFX()

```
final float com.radaee.view.VPage.ToPDFX (
    float x,
    float scrollx )
```

map x position in view to PDF coordinate

Parameters

x	x position in view
scrollx	x scroll position

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

3.154.1.9 ToPDFY()

```
final float com.radaee.view.VPage.ToPDFY (
    float y,
    float scrolly )
```

map y position in view to PDF coordinate

Parameters

<i>y</i>	y position in view
<i>scrolly</i>	y scroll position

Returns

Implements [com.radaee.view.ILayoutView.IVPage](#).

The documentation for this class was generated from the following file:

- VPage.java

3.155 com.radaee.view.VSel Class Reference

Public Member Functions

- **VSel** ([Page](#) page)
- void **Clear** ()
- int[] **GetRect1** (float scale, float page_height, int orgx, int orgy)
- int[] **GetRect2** (float scale, float page_height, int orgx, int orgy)
- void **SetSel** (float x1, float y1, float x2, float y2)
- [Page](#) **GetPage** ()
- boolean **SetSelMarkup** (int type)
- String **GetSelString** ()
- void **DrawSel** (Canvas canvas, float scale, float page_height, int orgx, int orgy)

Protected Attributes

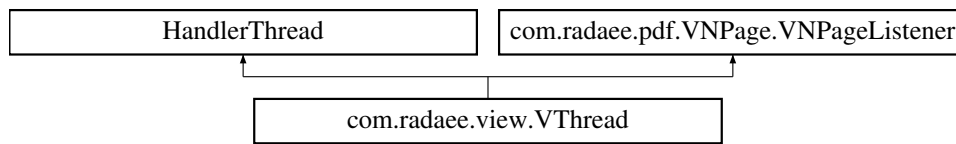
- [Page](#) **m_page**
- int **m_index1**
- int **m_index2**
- boolean **m_ok** = false
- boolean **m_swiped** = false

The documentation for this class was generated from the following file:

- VSel.java

3.156 com.radaee.view.VThread Class Reference

Inheritance diagram for com.radaee.view.VThread:



Public Member Functions

- void **start** ()
- synchronized void **destroy** ()
- void **Render** (long vcache)
- void **Dealloc** (long vcache)
- void **BlkRender** (long block)
- void **BlkDealloc** (long block)
- boolean **Draw** (long block, Canvas canvas, int src_left, int src_top, int src_right, int src_bottom, int dst_left, int dst_top, int dst_right, int dst_bottom)

Protected Member Functions

- **VThread** (Handler hand_ui)
- void **onLooperPrepared** ()
- void **start_find** (VFinder finder)
- synchronized void **wait_pending** ()

3.156.1 Member Function Documentation

3.156.1.1 BlkDealloc()

```
void com.radaee.view.VThread.BlkDealloc (
    long block )
```

Implements [com.radaee.pdf.VNPage.VNPageListener](#).

3.156.1.2 BlkRender()

```
void com.radaee.view.VThread.BlkRender (
    long block )
```

Implements [com.radaee.pdf.VNPage.VNPageListener](#).

3.156.1.3 Dealloc()

```
void com.radaee.view.VThread.Dealloc (
    long vcache )
```

Implements [com.radaee.pdf.VNPage.VNPageListener](#).

3.156.1.4 Draw()

```
boolean com.radaee.view.VThread.Draw (
    long block,
    Canvas canvas,
    int src_left,
    int src_top,
    int src_right,
    int src_bottom,
    int dst_left,
    int dst_top,
    int dst_right,
    int dst_bottom )
```

Implements [com.radaee.pdf.VNPage.VNPageListener](#).

3.156.1.5 Render()

```
void com.radaee.view.VThread.Render (
    long vcache )
```

Implements [com.radaee.pdf.VNPage.VNPageListener](#).

The documentation for this class was generated from the following file:

- VThread.java

Index

- activateLicense
 - com.radaee.util.RadaeePDFManager, [300](#)
- AddAnnotAttachment
 - com.radaee.pdf.Page, [131](#)
- addAnnotAttachment
 - com.radaee.util.RadaeePDFManager, [301](#)
- AddAnnotBitmap
 - com.radaee.pdf.Page, [131](#)
- AddAnnotEditbox
 - com.radaee.pdf.Page, [132](#), [133](#)
- AddAnnotEllipse
 - com.radaee.pdf.Page, [133](#), [135](#)
- AddAnnotGlyph
 - com.radaee.pdf.Page, [135](#)
- AddAnnotGoto
 - com.radaee.pdf.Page, [136](#)
- AddAnnotHWriting
 - com.radaee.pdf.Page, [136](#)
- AddAnnotInk
 - com.radaee.pdf.Page, [137](#)
- AddAnnotLine
 - com.radaee.pdf.Page, [138](#), [139](#)
- AddAnnotMarkup
 - com.radaee.pdf.Page, [140](#), [141](#)
- AddAnnotPolygon
 - com.radaee.pdf.Page, [141](#)
- AddAnnotPolyline
 - com.radaee.pdf.Page, [142](#)
- AddAnnotRect
 - com.radaee.pdf.Page, [142](#), [143](#)
- AddAnnotRichMedia
 - com.radaee.pdf.Page, [144](#)
- AddAnnotStamp
 - com.radaee.pdf.Page, [144](#)
- AddAnnotText
 - com.radaee.pdf.Page, [145](#)
- AddAnnotURI
 - com.radaee.pdf.Page, [146](#)
- AddChild
 - com.radaee.pdf.Document.Outline, [124](#)
- AddContent
 - com.radaee.pdf.Page, [146](#)
- AddNext
 - com.radaee.pdf.Document.Outline, [125](#)
- AddResFont
 - com.radaee.pdf.Document.DocForm, [23](#)
 - com.radaee.pdf.Page, [147](#)
- AddResForm
 - com.radaee.pdf.Document.DocForm, [23](#)
 - com.radaee.pdf.Page, [147](#)
- AddResGState
 - com.radaee.pdf.Document.DocForm, [23](#)
 - com.radaee.pdf.Page, [147](#)
- AddResImage
 - com.radaee.pdf.Document.DocForm, [24](#)
 - com.radaee.pdf.Page, [148](#)
- addToBookmarks
 - com.radaee.util.RadaeePDFManager, [301](#)
- Advance_GetObj
 - com.radaee.pdf.Document, [30](#)
- Advance_GetRef
 - com.radaee.pdf.Document, [30](#)
 - com.radaee.pdf.Page, [148](#)
- Advance_NewFlateStream
 - com.radaee.pdf.Document, [31](#)
- Advance_NewIndirectAndCopyObj
 - com.radaee.pdf.Document, [31](#)
- Advance_NewIndirectObj
 - com.radaee.pdf.Document, [31](#)
- Advance_NewRawStream
 - com.radaee.pdf.Document, [32](#)
- Advance_Reload
 - com.radaee.pdf.Document, [32](#)
 - com.radaee.pdf.Page, [148](#)
- annotTransparencyColor
 - com.radaee.pdf.Global, [84](#)
- ArrayAppendItem
 - com.radaee.pdf.adv.Obj, [114](#)
- ArrayClear
 - com.radaee.pdf.adv.Obj, [114](#)
- ArrayGetItem
 - com.radaee.pdf.adv.Obj, [115](#)
- ArrayGetItemCount
 - com.radaee.pdf.adv.Obj, [115](#)
- ArrayInsertItem
 - com.radaee.pdf.adv.Obj, [115](#)
- ArrayRemoveItem
 - com.radaee.pdf.adv.Obj, [115](#)
- BlkDealloc
 - com.radaee.view.VThread, [363](#)
- BlkRender
 - com.radaee.view.VThread, [363](#)
- BundleRestorePos
 - com.radaee.reader.PDFGLLayoutView, [190](#)
 - com.radaee.reader.PDFLayoutView, [226](#)
- BundleSavePos
 - com.radaee.reader.PDFGLLayoutView, [191](#)
 - com.radaee.reader.PDFLayoutView, [226](#)

- CancelRender
 - com.radaee.view.PDFVPage, 291
- CanSave
 - com.radaee.pdf.Document, 32
 - com.radaee.pdf.SuperDoc, 326
- ChangePageRect
 - com.radaee.pdf.Document, 32
 - com.radaee.pdf.SuperDoc, 327
- CheckSignByteRange
 - com.radaee.pdf.SuperDoc, 327
- ClipPath
 - com.radaee.pdf.PageContent, 166
- Close
 - com.radaee.pdf.BMDatabase, 10
 - com.radaee.pdf.Document, 33
 - com.radaee.pdf.Page, 148
 - com.radaee.pdf.Page.Finder, 57
 - com.radaee.pdf.SuperDoc, 328
 - com.radaee.pdf.SuperPage, 345
- close
 - com.radaee.util.PDFAESStream, 179
 - com.radaee.util.PDFHttpStream, 206
- ClosePath
 - com.radaee.pdf.Path, 177
- com.radaee.annotui.UIAnnotDlg, 346
- com.radaee.annotui.UIAnnotDlgComm, 346
- com.radaee.annotui.UIAnnotDlgIcon, 347
- com.radaee.annotui.UIAnnotDlgLine, 347
- com.radaee.annotui.UIAnnotDlgMarkup, 348
- com.radaee.annotui.UIAnnotDlgPopup, 348
- com.radaee.annotui.UIAnnotDlgSign, 349
- com.radaee.annotui.UIAnnotDlgSignProp, 349
- com.radaee.annotui.UIAnnotMenu, 350
- com.radaee.annotui.UIAnnotMenu.IMemnuCallback, 104
- com.radaee.annotui.UIAnnotPop, 350
- com.radaee.annotui.UIAnnotPopCombo, 351
- com.radaee.annotui.UIAnnotPopEdit, 351
- com.radaee.annotui.UIColorButton, 352
- com.radaee.annotui.UILIconButton, 352
- com.radaee.annotui.UILHeadButton, 353
- com.radaee.annotui.UILHeaderView, 353
- com.radaee.annotui.UILStyleButton, 354
- com.radaee.annotui.UILStyleView, 354
- com.radaee.annotui.UISignView, 355
- com.radaee.pdf.adv.Obj, 113
 - ArrayAppendItem, 114
 - ArrayClear, 114
 - ArrayGetItem, 115
 - ArrayGetItemCount, 115
 - ArrayInsertItem, 115
 - ArrayRemoveItem, 115
 - DictGetItem, 116
 - DictGetItemCount, 116
 - DictGetItemTag, 117
 - DictRemoveItem, 117
 - DictSetItem, 117
 - GetAsciiString, 118
 - GetBoolean, 118
 - GetHexString, 118
 - GetInt, 118
 - GetName, 119
 - GetReal, 119
 - GetReference, 119
 - GetTextString, 119
 - GetType, 120
 - SetArray, 120
 - SetAsciiString, 120
 - SetBoolean, 121
 - SetDict, 121
 - SetHexString, 121
 - SetInt, 121
 - SetName, 122
 - SetReal, 122
 - SetReference, 122
 - SetTextString, 122
- com.radaee.pdf.adv.Ref, 321
- com.radaee.pdf.BMDatabase, 9
 - Close, 10
 - OpenOrCreate, 10
 - RecClose, 10
 - RecGetCount, 11
 - RecItemGetName, 11
 - RecItemGetPage, 11
 - RecItemInsert, 12
 - RecItemRemove, 12
 - RecOpen, 13
- com.radaee.pdf.BMP, 13
 - Create, 13
 - DrawRect, 14
 - MulAlpha, 14
 - RestorePixs, 14
 - SavePixs, 15
- com.radaee.pdf.DIB, 20
 - DrawToBmp2, 20
 - MakeGray, 21
 - RestorePixs, 21
 - SavePixs, 21
- com.radaee.pdf.Document, 27
 - Advance_GetObj, 30
 - Advance_GetRef, 30
 - Advance_NewFlateStream, 31
 - Advance_NewIndirectAndCopyObj, 31
 - Advance_NewIndirectObj, 31
 - Advance_NewRawStream, 32
 - Advance_Reload, 32
 - CanSave, 32
 - ChangePageRect, 32
 - Close, 33
 - Create, 33
 - CreateForStream, 34
 - Document, 30
 - EncryptAs, 34
 - ExportForm, 35
 - GetEmbedFileData, 35
 - GetEmbedFileDesc, 35

- GetEmbedFileName, [36](#)
- GetEmbedFilesCount, [36](#)
- GetID, [36](#)
- GetJS, [37](#)
- GetJSCount, [37](#)
- GetJSName, [37](#)
- GetLinearizedStatus, [38](#)
- GetMeta, [38](#)
- GetOutlines, [38](#)
- GetPage, [39](#)
- GetPage0, [39](#)
- GetPageCount, [39](#)
- GetPageHeight, [40](#)
- GetPageLabel, [40](#)
- GetPagesMaxSize, [41](#)
- GetPageWidth, [41](#)
- GetPerm, [41](#)
- GetPermission, [42](#)
- GetXMP, [42](#)
- ImportStart, [42](#)
- IsEncrypted, [43](#)
- IsOpened, [43](#)
- MovePage, [43](#)
- NewFontCID, [44](#)
- NewForm, [44](#)
- NewGState, [44](#)
- NewImage, [45](#)
- NewImageByMem, [46](#)
- NewImageJPEG, [46](#)
- NewImageJPX, [46](#)
- NewPage, [47](#)
- NewRootOutline, [47](#)
- Open, [48](#)
- OpenMem, [49](#)
- OpenStream, [50](#)
- RemovePage, [50](#)
- RunJS, [52](#)
- Save, [52](#)
- SaveAs, [52](#)
- SetCache, [53](#)
- SetFontDel, [53](#)
- SetMeta, [54](#)
- SetOpenFlag, [54](#)
- SetPageRotate, [54](#)
- SetXMP, [55](#)
- VerifySign, [55](#)
- com.radaee.pdf.Document.DocFont, [22](#)
 - GetAscent, [22](#)
 - GetDescent, [22](#)
- com.radaee.pdf.Document.DocForm, [22](#)
 - AddResFont, [23](#)
 - AddResForm, [23](#)
 - AddResGState, [23](#)
 - AddResImage, [24](#)
 - SetContent, [24](#)
 - SetTransparency, [25](#)
- com.radaee.pdf.Document.DocGState, [25](#)
 - SetBlendMode, [25](#)
 - SetFillAlpha, [26](#)
 - SetStrokeAlpha, [26](#)
 - SetStrokeDash, [27](#)
- com.radaee.pdf.Document.DocImage, [27](#)
- com.radaee.pdf.Document.Outline, [124](#)
 - AddChild, [124](#)
 - AddNext, [125](#)
 - GetChild, [125](#)
 - GetDest, [125](#)
 - GetFileLink, [126](#)
 - GetNext, [126](#)
 - GetTitle, [126](#)
 - GetURI, [126](#)
 - RemoveFromDoc, [127](#)
 - SetTitle, [127](#)
- com.radaee.pdf.Document.PDFFontDelegate, [189](#)
 - GetExtFont, [189](#)
- com.radaee.pdf.Document.PDFJSDelegate, [209](#)
 - OnAlert, [209](#)
 - OnConsole, [210](#)
 - OnDocClose, [210](#)
 - OnTmpFile, [210](#)
 - OnUncaughtException, [211](#)
- com.radaee.pdf.Document.PDFStream, [243](#)
 - get_size, [244](#)
 - read, [244](#)
 - seek, [244](#)
 - tell, [245](#)
 - write, [245](#)
 - writable, [245](#)
- com.radaee.pdf.Global, [77](#)
 - annotTransparencyColor, [84](#)
 - dark_mode, [84](#)
 - default_config, [79](#)
 - drawAnnotIcon, [79](#)
 - DrawScroll, [80](#)
 - ellipse_annot_width, [84](#)
 - findPrimaryColor, [84](#)
 - findSecondaryColor, [85](#)
 - fling_dis, [85](#)
 - fling_speed, [85](#)
 - g_auto_launch_link, [85](#)
 - g_auto_save_doc, [85](#)
 - g_case_sensitive, [85](#)
 - g_def_view, [85](#)
 - g_match_whole_word, [86](#)
 - g_view_zoom_level, [86](#)
 - hideAnnots, [80](#)
 - Init, [80](#)
 - inkColor, [86](#)
 - inkWidth, [86](#)
 - line_annot_width, [86](#)
 - navigationMode, [86](#)
 - readerViewBgColor, [86](#)
 - rect_annot_width, [87](#)
 - RemoveTmp, [81](#)
 - selColor, [87](#)
 - setAnnotTransparency, [81](#)

- thumbGridBgColor, [87](#)
- thumbGridElementGap, [87](#)
- thumbGridElementHeight, [87](#)
- thumbGridViewMode, [87](#)
- thumbViewBgColor, [87](#)
- thumbViewHeight, [87](#)
- tmp_path, [88](#)
- ToDIBPoint, [81](#)
- ToDIBRect, [82](#)
- ToPDFPoint, [83](#)
- ToPDFRect, [83](#), [84](#)
- com.radaee.pdf.HWWriting, [97](#)
 - Destroy, [98](#)
 - HWriting, [97](#)
 - OnDown, [98](#)
 - OnDraw, [98](#)
 - OnMove, [99](#)
 - OnUp, [99](#)
- com.radaee.pdf.Ink, [104](#)
 - Destroy, [105](#)
 - Ink, [105](#)
 - OnDown, [105](#)
 - OnDraw, [106](#)
 - OnMove, [106](#)
 - OnUp, [106](#)
- com.radaee.pdf.Matrix, [111](#)
 - Destroy, [113](#)
 - Matrix, [112](#)
- com.radaee.pdf.Page, [129](#)
 - AddAnnotAttachment, [131](#)
 - AddAnnotBitmap, [131](#)
 - AddAnnotEditbox, [132](#), [133](#)
 - AddAnnotEllipse, [133](#), [135](#)
 - AddAnnotGlyph, [135](#)
 - AddAnnotGoto, [136](#)
 - AddAnnotHWriting, [136](#)
 - AddAnnotInk, [137](#)
 - AddAnnotLine, [138](#), [139](#)
 - AddAnnotMarkup, [140](#), [141](#)
 - AddAnnotPolygon, [141](#)
 - AddAnnotPolyline, [142](#)
 - AddAnnotRect, [142](#), [143](#)
 - AddAnnotRichMedia, [144](#)
 - AddAnnotStamp, [144](#)
 - AddAnnotText, [145](#)
 - AddAnnotURI, [146](#)
 - AddContent, [146](#)
 - AddResFont, [147](#)
 - AddResForm, [147](#)
 - AddResGState, [147](#)
 - AddResImage, [148](#)
 - Advance_GetRef, [148](#)
 - Advance_Reload, [148](#)
 - Close, [148](#)
 - CopyAnnot, [149](#)
 - FindOpen, [149](#)
 - FlatAnnots, [150](#)
 - GetAnnot, [150](#)
 - GetAnnotByName, [151](#)
 - GetAnnotCount, [151](#)
 - GetAnnotFromPoint, [151](#)
 - GetCropBox, [152](#)
 - GetMediaBox, [152](#)
 - GetRotate, [152](#)
 - ImportAnnot, [152](#)
 - ObjsAlignWord, [153](#)
 - ObjsGetCharCount, [153](#)
 - ObjsGetCharFontName, [153](#)
 - ObjsGetCharIndex, [154](#)
 - ObjsGetCharRect, [154](#)
 - ObjsGetString, [154](#)
 - ObjsStart, [156](#)
 - Reflow, [156](#)
 - ReflowGetCharColor, [156](#)
 - ReflowGetCharCount, [157](#)
 - ReflowGetCharFont, [157](#)
 - ReflowGetCharHeight, [157](#)
 - ReflowGetCharRect, [158](#)
 - ReflowGetCharUnicode, [158](#)
 - ReflowGetCharWidth, [159](#)
 - ReflowGetParaCount, [159](#)
 - ReflowGetText, [159](#)
 - ReflowStart, [160](#)
 - ReflowToBmp, [160](#)
 - Render, [161](#)
 - Render_Normal, [161](#)
 - RenderCancel, [161](#)
 - RenderIsFinished, [161](#)
 - RenderPrepare, [162](#)
 - RenderThumb, [162](#)
 - RenderThumbToBuf, [163](#)
 - RenderToBmp, [163](#)
 - RenderToBuf, [163](#)
 - Sign, [164](#)
- com.radaee.pdf.Page.Finder, [57](#)
 - Close, [57](#)
 - GetCount, [57](#)
 - GetFirstChar, [57](#)
- com.radaee.pdf.PageContent, [165](#)
 - ClipPath, [166](#)
 - Create, [166](#)
 - Destroy, [166](#)
 - DrawForm, [166](#)
 - DrawImage, [167](#)
 - DrawText, [167](#), [168](#)
 - FillPath, [168](#)
 - GSRestore, [168](#)
 - GSSave, [168](#)
 - GSSet, [169](#)
 - GSSetMatrix, [169](#)
 - SetFillColor, [169](#)
 - SetStrokeCap, [169](#)
 - SetStrokeColor, [170](#)
 - SetStrokeJoin, [170](#)
 - SetStrokeMiter, [170](#)
 - SetStrokeWidth, [171](#)

- StrokePath, [171](#)
- TextBegin, [171](#)
- TextEnd, [171](#)
- TextGetSize, [171](#)
- TextMove, [172](#)
- TextNextLine, [172](#)
- TextSetCharSpace, [172](#)
- TextSetFont, [173](#)
- TextSetHScale, [173](#)
- TextSetLeading, [173](#)
- TextSetRenderMode, [173](#)
- TextSetRise, [175](#)
- TextSetWordSpace, [175](#)
- com.radaee.pdf.Path, [176](#)
 - ClosePath, [177](#)
 - Destroy, [177](#)
 - GetNode, [177](#)
 - LineTo, [177](#)
 - MoveTo, [178](#)
- com.radaee.pdf.ResFont, [321](#)
- com.radaee.pdf.ResForm, [322](#)
- com.radaee.pdf.ResGState, [322](#)
- com.radaee.pdf.ResImage, [322](#)
- com.radaee.pdf.Sign, [323](#)
 - GetContact, [323](#)
 - GetLocation, [323](#)
 - GetModDateTime, [323](#)
 - GetName, [324](#)
 - GetReason, [324](#)
- com.radaee.pdf.SuperDoc, [324](#)
 - CanSave, [326](#)
 - ChangePageRect, [327](#)
 - CheckSignByteRange, [327](#)
 - Close, [328](#)
 - Create, [328](#)
 - CreateForStream, [328](#)
 - CreateVNPage, [329](#)
 - EncryptAs, [329](#)
 - ExportForm, [330](#)
 - finalize, [330](#)
 - GetID, [330](#)
 - GetMeta, [330](#)
 - GetOutlines, [331](#)
 - GetPage, [331](#)
 - GetPage0, [332](#)
 - GetPageCount, [332](#)
 - GetPageHeight, [332](#)
 - GetPagesMaxSize, [333](#)
 - GetPageWidth, [333](#)
 - GetPerm, [333](#)
 - GetPermission, [334](#)
 - GetSignByteRange, [334](#)
 - GetSignContents, [334](#)
 - GetSignFilter, [335](#)
 - GetSignSubFilter, [335](#)
 - ImportPage, [335](#)
 - ImportStart, [336](#)
 - IsEncrypted, [336](#)
 - IsOpened, [336](#)
 - MovePage, [337](#)
 - NewFontCID, [337](#)
 - NewGState, [338](#)
 - NewImage, [338](#)
 - NewImageJPEG, [338](#)
 - NewImageJPX, [339](#)
 - NewPage, [339](#)
 - NewRootOutline, [340](#)
 - Open, [340](#)
 - OpenMem, [341](#)
 - OpenStream, [341](#)
 - RemovePage, [342](#)
 - Save, [342](#)
 - SaveAs, [342](#)
 - SetCache, [343](#)
 - SetFontDel, [343](#)
 - SetMeta, [344](#)
 - SetPageRotate, [344](#)
 - SuperDoc, [326](#)
- com.radaee.pdf.SuperPage, [345](#)
 - Close, [345](#)
- com.radaee.pdf.VNBlock, [356](#)
- com.radaee.pdf.VNCache, [356](#)
- com.radaee.pdf.VNPage, [356](#)
- com.radaee.pdf.VNPage.VNPageListener, [358](#)
- com.radaee.reader.GLCanvas, [59](#)
- com.radaee.reader.GLCanvas.CanvasListener, [16](#)
- com.radaee.reader.GLView, [94](#)
 - drawLayer, [95](#)
 - surfaceCreated, [95](#)
- com.radaee.reader.PDFBotBar, [185](#)
- com.radaee.reader.PDFGLLayoutView, [189](#)
 - BundleRestorePos, [190](#)
 - BundleSavePos, [191](#)
 - GetScreenX, [191](#)
 - GetScreenY, [191](#)
 - PDFCancelAnnot, [191](#)
 - PDFCanSave, [191](#)
 - PDFClose, [191](#)
 - PDFEditAnnot, [192](#)
 - PDFEndAnnot, [192](#)
 - PDFFind, [192](#)
 - PDFFindEnd, [192](#)
 - PDFFindStart, [192](#)
 - PDFGetDoc, [192](#)
 - PDFGotoPage, [193](#)
 - PDFPerformAnnot, [193](#)
 - PDFRedo, [193](#)
 - PDFRemoveAnnot, [193](#)
 - PDFSave, [193](#)
 - PDFScrollToPage, [193](#)
 - PDFSetAttachment, [194](#)
 - PDFSetEditbox, [194](#)
 - PDFSetEllipse, [194](#)
 - PDFSetInk, [195](#)
 - PDFSetLine, [195](#)
 - PDFSetNote, [195](#)

- PDFSetPolygon, 196
- PDFSetPolyline, 196
- PDFSetRect, 196
- PDFSetSelect, 196
- PDFSetSelMarkup, 197
- PDFSetStamp, 197
- PDFSetView, 197
- PDFUndo, 198
- PDFUpdatePage, 198
- com.radaee.reader.PDFGLViewAct, 198
 - getFileState, 199
 - OnPDFAnnotTapped, 200
 - OnPDFBlankTapped, 200
 - OnPDFDoubleTapped, 200
 - OnPDFLongPressed, 200
 - OnPDFOpen3D, 201
 - OnPDFOpenAttachment, 201
 - OnPDFOpenJS, 201
 - OnPDFOpenMovie, 201
 - OnPDFOpenSound, 201
 - OnPDFOpenURI, 202
 - OnPDFPageChanged, 202
 - OnPDFPageDisplayed, 202
 - OnPDFPageModified, 202
 - OnPDFPageRendered, 203
 - OnPDFSearchFinished, 203
 - OnPDFSelectEnd, 203
 - OnPDFZoomEnd, 204
 - OnPDFZoomStart, 204
- com.radaee.reader.PDFLayoutOPStack, 223
- com.radaee.reader.PDFLayoutView, 224
 - BundleRestorePos, 226
 - BundleSavePos, 226
 - GetScreenX, 226
 - GetScreenY, 226
 - OnCacheRendered, 227
 - onDraw, 227
 - OnFound, 227
 - OnPageChanged, 227
 - OnPageDisplayed, 228
 - OnPageRendered, 228
 - OnTimer, 228
 - PDFCancelAnnot, 228
 - PDFCanSave, 229
 - PDFClose, 229
 - PDFEditAnnot, 229
 - PDFEndAnnot, 229
 - PDFFind, 229
 - PDFFindEnd, 229
 - PDFFindStart, 230
 - PDFGetDoc, 230
 - PDFGotoPage, 230
 - PDFPerformAnnot, 230
 - PDFRedo, 230
 - PDFRemoveAnnot, 230
 - PDFSave, 231
 - PDFScrollToPage, 231
 - PDFSetAttachment, 231
 - PDFSetEditbox, 231
 - PDFSetEllipse, 232
 - PDFSetInk, 232
 - PDFSetLine, 232
 - PDFSetNote, 233
 - PDFSetPolygon, 233
 - PDFSetPolyline, 233
 - PDFSetRect, 233
 - PDFSetSelect, 234
 - PDFSetSelMarkup, 234
 - PDFSetStamp, 234
 - PDFSetView, 234
 - PDFUndo, 235
 - PDFUpdatePage, 235
- com.radaee.reader.PDFMainAct, 235
- com.radaee.reader.PDFMenu, 239
- com.radaee.reader.PDFNavAct, 239
- com.radaee.reader.PDFPagesAct, 240
- com.radaee.reader.PDFTopBar, 253
- com.radaee.reader.PDFViewAct, 260
 - getCurrentPage, 261
 - getFileState, 261
 - OnPDFAnnotTapped, 261
 - OnPDFBlankTapped, 262
 - OnPDFDoubleTapped, 262
 - OnPDFLongPressed, 262
 - OnPDFOpen3D, 262
 - OnPDFOpenAttachment, 262
 - OnPDFOpenJS, 263
 - OnPDFOpenMovie, 263
 - OnPDFOpenSound, 263
 - OnPDFOpenURI, 263
 - OnPDFPageChanged, 263
 - OnPDFPageDisplayed, 264
 - OnPDFPageModified, 264
 - OnPDFPageRendered, 264
 - OnPDFSearchFinished, 265
 - OnPDFSelectEnd, 265
 - OnPDFZoomEnd, 265
 - OnPDFZoomStart, 265
- com.radaee.reader.PDFViewController, 266
 - setNavigationMode, 267
- com.radaee.util.BookmarkHandler, 15
- com.radaee.util.BookmarkHandler.BookmarkListener, 16
- com.radaee.util.BookmarkHandler.BookmarkStatus, 16
- com.radaee.util.ComboList, 17
- com.radaee.util.CommonUtil, 17
 - createImageForm, 18
 - getCurrentDate, 18
 - signField, 19
- com.radaee.util.FileBrowserView, 56
- com.radaee.util.OutlineList, 128
- com.radaee.util.OutlineList.OutlineListAdt.outline_ui_item, 128
- com.radaee.util.PDFAESStream, 178
 - close, 179

- get_size, 179
- ImportFromFile, 179
- open, 180
- read, 180
- seek, 180
- tell, 181
- write, 181
- writable, 181
- com.radaee.util.PDFAssetStream, 182
 - get_size, 183
 - read, 183
 - seek, 183
 - tell, 184
 - write, 184
 - writable, 184
- com.radaee.util.PDFFileStream, 186
 - get_size, 186
 - read, 187
 - seek, 187
 - tell, 187
 - write, 188
 - writable, 188
- com.radaee.util.PDFGridItem, 204
- com.radaee.util.PDFGridView, 205
- com.radaee.util.PDFHttpStream, 206
 - close, 206
 - get_size, 207
 - open, 207
 - read, 207
 - seek, 208
 - tell, 208
 - write, 208
 - writable, 209
- com.radaee.util.PDFHttpStream.HttpDownloadThread, 96
- com.radaee.util.PDFHttpStream.HttpThread, 96
- com.radaee.util.PDFMemStream, 236
 - get_data, 236
 - get_size, 237
 - read, 237
 - seek, 237
 - tell, 238
 - write, 238
 - writable, 238
- com.radaee.util.PDFPageGridView, 240
- com.radaee.util.PDFThumbGrid, 246
- com.radaee.util.PDFThumbView, 247
 - OnPDFDoubleTapped, 248
 - OnPDFFound, 249
 - OnPDFInvalidate, 249
 - OnPDFLongPressed, 249
 - OnPDFPageChanged, 250
 - OnPDFPageDisplayed, 250
 - OnPDFPageRendered, 250
 - OnPDFSelectEnd, 250
 - OnPDFSelecting, 251
 - OnPDFShowPressed, 251
 - OnPDFSingleTapped, 251
 - OnPDFZoomEnd, 252
 - OnPDFZoomStart, 252
 - thumbGotoPage, 252
 - thumbUpdatePage, 252
- com.radaee.util.PopupEditAct, 298
- com.radaee.util.PopupEditAct.ActRetListener, 9
- com.radaee.util.RadaeePDFManager, 298
 - activateLicense, 300
 - addAnnotAttachment, 301
 - addToBookmarks, 301
 - didChangePage, 301
 - didCloseReader, 302
 - didSearchTerm, 302
 - didShowReader, 302
 - encryptDocAs, 302
 - extractTextFromPage, 303
 - getBookmarksAsJson, 303
 - getJsonFormFields, 304
 - getJsonFormFieldsAtPage, 304
 - getPageCount, 304
 - getPageNumber, 304
 - onAnnotTapped, 305
 - onBlankTapped, 305
 - onDoubleTapped, 305
 - onLongPressed, 305
 - openFromAssets, 305, 306
 - openFromPath, 306
 - removeBookmark, 306
 - renderAnnotToFile, 307
 - setDebugMode, 307
 - setFirstPageCover, 308
 - setFormFieldsWithJSON, 308
 - setIconsBGColor, 308
 - setImmersive, 308
 - setLayoutType, 309
 - setReaderBGColor, 309
 - setReaderViewMode, 309
 - setThumbHeight, 310
 - setThumbnailBGColor, 310
 - setTitleBGColor, 310
 - show, 310, 311
 - willCloseReader, 311
 - willShowReader, 312
- com.radaee.util.RadaeePluginCallback, 312
- com.radaee.util.RadaeePluginCallback.PDFActivityListener, 178
- com.radaee.util.RadaeePluginCallback.PDFControllerListener, 185
- com.radaee.util.RadaeePluginCallback.PDFReaderListener, 243
- com.radaee.util.RadaeePluginCallback.PDFThumbListener, 247
- com.radaee.util.RDBGView, 313
- com.radaee.util.RDExpView, 314
- com.radaee.util.RDFilesItem, 314
- com.radaee.util.RDFilesView, 315
- com.radaee.util.RDFilesView.OnFilesListener, 123
- com.radaee.util.RDGridItem, 316

- com.radaee.util.RDGridView, 317
- com.radaee.util.RDGridView.RDGridAdt.OnGridListener, 123
- com.radaee.util.RDImgView, 318
- com.radaee.util.RDLinearLayout, 318
- com.radaee.util.RDLockerSet, 318
- com.radaee.util.RDRecent, 319
- com.radaee.util.RDRecentItem, 319
- com.radaee.util.RDRecentView, 320
- com.radaee.util.RDRecentView.OnRecentListener, 124
- com.radaee.util.RDRelativeLayout, 320
- com.radaee.view.GLBlock, 58
- com.radaee.view.GLLayout, 59
 - gl_render, 61
 - gl_resize, 61
- com.radaee.view.GLLayout.GLListener, 77
- com.radaee.view.GLLayoutCurl, 62
 - gl_click, 62
 - gl_close, 63
 - gl_down, 63
 - gl_draw, 63
 - gl_fling, 63
 - gl_layout, 63
 - gl_move, 64
 - gl_move_end, 64
 - gl_surface_destroy, 64
 - vGetPage, 64
 - vGetPos, 64
 - vGotoPage, 65
 - vScrollToPage, 65
 - vSetPos, 65
 - vSupportZoom, 65
- com.radaee.view.GLLayoutDual, 66
 - gl_draw, 66
 - gl_fling, 67
 - gl_flush_range, 67
 - gl_layout, 67
 - gl_move_end, 67
 - gl_zoom_confirm, 67
 - gl_zoom_set_pos, 68
 - vGetPage, 68
 - vGotoPage, 68
 - vScrollToPage, 68
- com.radaee.view.GLLayoutDual2, 69
 - gl_fling, 69
 - gl_layout, 69
 - gl_move_end, 70
 - gl_zoom_confirm, 70
 - gl_zoom_set_pos, 70
 - vGetPage, 70
 - vGotoPage, 70
 - vScrollToPage, 71
- com.radaee.view.GLLayoutHorz, 71
 - gl_layout, 71
 - vGetPage, 71
- com.radaee.view.GLLayoutReflow, 72
 - gl_click, 72
 - gl_close, 73
 - gl_draw, 73
 - gl_layout, 73
 - gl_surface_create, 73
 - gl_surface_destroy, 73
 - gl_zoom_confirm, 74
 - gl_zoom_start, 74
 - vCanSave, 74
 - vFindStart, 74
 - vGetPage, 74
 - vGetPos, 75
 - vGotoPage, 75
 - vScrollToPage, 75
 - vSetPos, 75
 - vSupportZoom, 75
- com.radaee.view.GLLayoutVert, 76
 - gl_layout, 76
 - vGetPage, 76
- com.radaee.view.GLPage, 88
 - CreateInvertMatrix, 89
 - GetPageNo, 89
 - GetVX, 89
 - GetVY, 89
 - gl_draw2, 90
 - ToDIBX, 90
 - ToDIBY, 90
 - ToPDFSize, 91
 - ToPDFX, 91
 - ToPDFY, 91
- com.radaee.view.GLReflowBlock, 92
- com.radaee.view.GLReflowCanvas, 93
- com.radaee.view.GLThread, 93
- com.radaee.view.ILayoutView, 99
 - PDFClose, 100
 - PDFOpen, 100
 - PDFSetEditbox, 101
 - PDFSetEllipse, 101
 - PDFSetInk, 101
 - PDFSetLine, 102
 - PDFSetNote, 102
 - PDFSetRect, 103
 - PDFSetSelect, 103
 - PDFSetStamp, 103
 - PDFSetView, 103
- com.radaee.view.ILayoutView.IVPage, 108
 - CreateInvertMatrix, 108
 - ToDIBX, 108
 - ToDIBY, 109
 - ToPDFX, 109
 - ToPDFY, 109
- com.radaee.view.ILayoutView.PDFLayoutListener, 219
 - OnPDFAnnotTapped, 220
 - OnPDFBlankTapped, 220
 - OnPDFPageChanged, 220
 - OnPDFPageDisplayed, 220
 - OnPDFPageModified, 221
 - OnPDFPageRendered, 221

- OnPDFSearchFinished, [221](#)
- OnPDFSelectEnd, [222](#)
- OnPDFZoomEnd, [222](#)
- OnPDFZoomStart, [222](#)
- com.radaee.view.PDFLayout, [211](#)
 - vDraw, [213](#)
 - vGetHeight, [214](#)
 - vGetTHeight, [214](#)
 - vGetTWidth, [214](#)
 - vGetWidth, [214](#)
 - vOpen, [214](#)
 - vRenderAsync, [214](#)
 - vResize, [215](#)
- com.radaee.view.PDFLayout.LayoutListener, [109](#)
 - OnFound, [110](#)
 - OnPageChanged, [110](#)
 - OnPageDisplayed, [111](#)
- com.radaee.view.PDFLayoutDual, [215](#)
 - vClose, [216](#)
 - vFling, [216](#)
 - vGetPage, [216](#)
 - vGotoPage, [216](#)
 - vLayout, [217](#)
 - vMoveEnd, [217](#)
 - vOpen, [217](#)
 - vScrollToPage, [217](#)
- com.radaee.view.PDFLayoutHorz, [218](#)
 - vGetPage, [218](#)
 - vLayout, [218](#)
 - vOpen, [218](#)
 - vResize, [218](#)
- com.radaee.view.PDFLayoutVert, [223](#)
 - vGetPage, [223](#)
 - vLayout, [223](#)
- com.radaee.view.PDFPageView, [241](#)
 - vOpen, [242](#)
- com.radaee.view.PDFPageView.PageListener, [175](#)
- com.radaee.view.PDFVCache, [253](#)
- com.radaee.view.PDFVFinder, [254](#)
- com.radaee.view.PDFView, [254](#)
 - vCenterPage, [256](#)
 - vGetLock, [257](#)
 - vGetPage, [257](#)
 - vGetPos, [257](#)
 - vGetScale, [258](#)
 - vLayout, [258](#)
 - vRenderAsync, [258](#)
 - vSetLock, [258](#)
 - vSetPos, [259](#)
 - vSetScale, [259](#)
 - vSetSelMarkup, [259](#)
- com.radaee.view.PDFView.PDFPos, [242](#)
- com.radaee.view.PDFView.PDFViewListener, [275](#)
 - OnPDFDoubleTapped, [276](#)
 - OnPDFFound, [276](#)
 - OnPDFInvalidate, [276](#)
 - OnPDFLongPressed, [277](#)
 - OnPDFPageChanged, [277](#)
 - OnPDFPageDisplayed, [277](#)
 - OnPDFSelectEnd, [278](#)
 - OnPDFSelecting, [278](#)
 - OnPDFShowPressed, [278](#)
 - OnPDFSingleTapped, [280](#)
- com.radaee.view.PDFViewCurl, [267](#)
 - motionNormal, [268](#)
 - vClose, [268](#)
 - vDraw, [268](#)
 - vFindGoto, [268](#)
 - vGetPage, [269](#)
 - vGotoPage, [269](#)
 - vLayout, [269](#)
 - vOnTimer, [269](#)
 - vOpen, [269](#)
 - vSetPos, [270](#)
- com.radaee.view.PDFViewDual, [270](#)
 - vCenterPage, [271](#)
 - vGetPage, [271](#)
 - vGotoPage, [271](#)
 - vLayout, [272](#)
 - vOnFling, [272](#)
 - vOnMoveEnd, [272](#)
 - vOnZoomEnd, [272](#)
 - vOpen, [272](#)
 - vResize, [273](#)
 - vSetLayoutPara, [273](#)
- com.radaee.view.PDFViewDual.PDFCell, [185](#)
- com.radaee.view.PDFViewHorz, [274](#)
 - vGetPage, [274](#)
 - vLayout, [274](#)
 - vOpen, [274](#)
 - vResize, [275](#)
- com.radaee.view.PDFViewPager, [280](#)
 - PDFOpen, [281](#)
- com.radaee.view.PDFViewReflow, [281](#)
 - vClose, [282](#)
 - vDraw, [282](#)
 - vFindGoto, [282](#)
 - vGetPage, [282](#)
 - vGetPos, [282](#)
 - vGotoPage, [283](#)
 - vLayout, [283](#)
 - vOnFling, [283](#)
 - vOpen, [283](#)
 - vSetPos, [283](#)
 - vSingleTap, [284](#)
- com.radaee.view.PDFViewThumb, [284](#)
 - vClose, [285](#)
 - vDraw, [285](#)
 - vFlushRange, [285](#)
 - vGetOrientation, [286](#)
 - vGetPage, [286](#)
 - vLayout, [286](#)
 - vOnFling, [286](#)
 - vOnMoveEnd, [286](#)
 - vOpen, [287](#)
 - vResize, [287](#)

- vSetOrientation, 287
- vSetSel, 287
- vSingleTap, 288
- com.radaee.view.PDFViewThumb.PDFThumbListener, 247
- com.radaee.view.PDFViewVert, 288
 - vGetPage, 289
 - vLayout, 289
 - vSetPageAlign, 289
- com.radaee.view.PDFVPage, 289
 - CancelRender, 291
 - CreateInvertMatrix, 291
 - CreateMatrix, 291
 - Draw, 291, 292
 - GetHeight, 292
 - GetPage, 292
 - GetPageNo, 292
 - GetVX, 293
 - GetVY, 293
 - GetWidth, 293
 - GetX, 294
 - GetY, 294
 - ToDIBX, 294
 - ToDIBY, 295
 - ToPDFSize, 295
 - ToPDFX, 295
 - ToPDFY, 296
- com.radaee.view.PDFVSEL, 296
- com.radaee.view.PDFVThread, 297
- com.radaee.view.VFinder, 355
- com.radaee.view.VPage, 358
 - CreateInvertMatrix, 359
 - GetPageNo, 360
 - GetVX, 360
 - GetVY, 360
 - ToDIBX, 360
 - ToDIBY, 361
 - ToPDFSize, 361
 - ToPDFX, 361
 - ToPDFY, 362
- com.radaee.view.VSEL, 362
- com.radaee.view.VThread, 363
 - BlkDealloc, 363
 - BlkRender, 363
 - Dealloc, 363
 - Draw, 364
 - Render, 364
- CopyAnnot
 - com.radaee.pdf.Page, 149
- Create
 - com.radaee.pdf.BMP, 13
 - com.radaee.pdf.Document, 33
 - com.radaee.pdf.PageContent, 166
 - com.radaee.pdf.SuperDoc, 328
- CreateForStream
 - com.radaee.pdf.Document, 34
 - com.radaee.pdf.SuperDoc, 328
- createImageForm
 - com.radaee.util.CommonUtil, 18
- CreateInvertMatrix
 - com.radaee.view.GLPAGE, 89
 - com.radaee.view.ILayoutView.IVPage, 108
 - com.radaee.view.PDFVPage, 291
 - com.radaee.view.VPage, 359
- CreateMatrix
 - com.radaee.view.PDFVPage, 291
- CreateVNPage
 - com.radaee.pdf.SuperDoc, 329
- dark_mode
 - com.radaee.pdf.Global, 84
- Dealloc
 - com.radaee.view.VThread, 363
- default_config
 - com.radaee.pdf.Global, 79
- Destroy
 - com.radaee.pdf.HWriting, 98
 - com.radaee.pdf.Ink, 105
 - com.radaee.pdf.Matrix, 113
 - com.radaee.pdf.PageContent, 166
 - com.radaee.pdf.Path, 177
- DictGetItem
 - com.radaee.pdf.adv.Obj, 116
- DictGetItemCount
 - com.radaee.pdf.adv.Obj, 116
- DictGetItemTag
 - com.radaee.pdf.adv.Obj, 117
- DictRemoveItem
 - com.radaee.pdf.adv.Obj, 117
- DictSetItem
 - com.radaee.pdf.adv.Obj, 117
- didChangePage
 - com.radaee.util.RadaeePDFManager, 301
- didCloseReader
 - com.radaee.util.RadaeePDFManager, 302
- didSearchTerm
 - com.radaee.util.RadaeePDFManager, 302
- didShowReader
 - com.radaee.util.RadaeePDFManager, 302
- Document
 - com.radaee.pdf.Document, 30
- Draw
 - com.radaee.view.PDFVPage, 291, 292
 - com.radaee.view.VThread, 364
- drawAnnotIcon
 - com.radaee.pdf.Global, 79
- DrawForm
 - com.radaee.pdf.PageContent, 166
- DrawImage
 - com.radaee.pdf.PageContent, 167
- drawLayer
 - com.radaee.reader.GLView, 95
- DrawRect
 - com.radaee.pdf.BMP, 14
- DrawScroll
 - com.radaee.pdf.Global, 80
- DrawText

- com.radaee.pdf.PageContent, 167, 168
- DrawToBmp2
 - com.radaee.pdf.DIB, 20
- ellipse_annot_width
 - com.radaee.pdf.Global, 84
- EncryptAs
 - com.radaee.pdf.Document, 34
 - com.radaee.pdf.SuperDoc, 329
- encryptDocAs
 - com.radaee.util.RadaeePDFManager, 302
- ExportForm
 - com.radaee.pdf.Document, 35
 - com.radaee.pdf.SuperDoc, 330
- extractTextFromPage
 - com.radaee.util.RadaeePDFManager, 303
- FillPath
 - com.radaee.pdf.PageContent, 168
- finalize
 - com.radaee.pdf.SuperDoc, 330
- FindOpen
 - com.radaee.pdf.Page, 149
- findPrimaryColor
 - com.radaee.pdf.Global, 84
- findSecondaryColor
 - com.radaee.pdf.Global, 85
- FlatAnnots
 - com.radaee.pdf.Page, 150
- fling_dis
 - com.radaee.pdf.Global, 85
- fling_speed
 - com.radaee.pdf.Global, 85
- g_auto_launch_link
 - com.radaee.pdf.Global, 85
- g_auto_save_doc
 - com.radaee.pdf.Global, 85
- g_case_sensitive
 - com.radaee.pdf.Global, 85
- g_def_view
 - com.radaee.pdf.Global, 85
- g_match_whole_word
 - com.radaee.pdf.Global, 86
- g_view_zoom_level
 - com.radaee.pdf.Global, 86
- get_data
 - com.radaee.util.PDFMemStream, 236
- get_size
 - com.radaee.pdf.Document.PDFStream, 244
 - com.radaee.util.PDFAESStream, 179
 - com.radaee.util.PDFAssetStream, 183
 - com.radaee.util.PDFFileStream, 186
 - com.radaee.util.PDFHttpStream, 207
 - com.radaee.util.PDFMemStream, 237
- GetAnnot
 - com.radaee.pdf.Page, 150
- GetAnnotByName
 - com.radaee.pdf.Page, 151
- GetAnnotCount
 - com.radaee.pdf.Page, 151
- GetAnnotFromPoint
 - com.radaee.pdf.Page, 151
- GetAscent
 - com.radaee.pdf.Document.DocFont, 22
- GetAsciiString
 - com.radaee.pdf.adv.Obj, 118
- getBookmarksAsJson
 - com.radaee.util.RadaeePDFManager, 303
- GetBoolean
 - com.radaee.pdf.adv.Obj, 118
- GetChild
 - com.radaee.pdf.Document.Outline, 125
- GetContact
 - com.radaee.pdf.Sign, 323
- GetCount
 - com.radaee.pdf.Page.Finder, 57
- GetCropBox
 - com.radaee.pdf.Page, 152
- getCurrentDate
 - com.radaee.util.CommonUtil, 18
- getCurrentPage
 - com.radaee.reader.PDFViewAct, 261
- GetDescent
 - com.radaee.pdf.Document.DocFont, 22
- GetDest
 - com.radaee.pdf.Document.Outline, 125
- GetEmbedFileData
 - com.radaee.pdf.Document, 35
- GetEmbedFileDesc
 - com.radaee.pdf.Document, 35
- GetEmbedFileName
 - com.radaee.pdf.Document, 36
- GetEmbedFilesCount
 - com.radaee.pdf.Document, 36
- GetExtFont
 - com.radaee.pdf.Document.PDFFontDelegate, 189
- GetFileLink
 - com.radaee.pdf.Document.Outline, 126
- getFileState
 - com.radaee.reader.PDFGLViewAct, 199
 - com.radaee.reader.PDFViewAct, 261
- GetFirstChar
 - com.radaee.pdf.Page.Finder, 57
- GetHeight
 - com.radaee.view.PDFVPage, 292
- GetHexString
 - com.radaee.pdf.adv.Obj, 118
- GetID
 - com.radaee.pdf.Document, 36
 - com.radaee.pdf.SuperDoc, 330
- GetInt
 - com.radaee.pdf.adv.Obj, 118
- GetJS
 - com.radaee.pdf.Document, 37
- GetJSCount

- com.radaee.pdf.Document, 37
- GetJSName
 - com.radaee.pdf.Document, 37
- getJsonFormFields
 - com.radaee.util.RadaeePDFManager, 304
- getJsonFormFieldsAtPage
 - com.radaee.util.RadaeePDFManager, 304
- GetLinearizedStatus
 - com.radaee.pdf.Document, 38
- GetLocation
 - com.radaee.pdf.Sign, 323
- GetMediaBox
 - com.radaee.pdf.Page, 152
- GetMeta
 - com.radaee.pdf.Document, 38
 - com.radaee.pdf.SuperDoc, 330
- GetModDateTime
 - com.radaee.pdf.Sign, 323
- GetName
 - com.radaee.pdf.adv.Obj, 119
 - com.radaee.pdf.Sign, 324
- GetNext
 - com.radaee.pdf.Document.Outline, 126
- GetNode
 - com.radaee.pdf.Path, 177
- GetOutlines
 - com.radaee.pdf.Document, 38
 - com.radaee.pdf.SuperDoc, 331
- GetPage
 - com.radaee.pdf.Document, 39
 - com.radaee.pdf.SuperDoc, 331
 - com.radaee.view.PDFVPage, 292
- GetPage0
 - com.radaee.pdf.Document, 39
 - com.radaee.pdf.SuperDoc, 332
- GetPageCount
 - com.radaee.pdf.Document, 39
 - com.radaee.pdf.SuperDoc, 332
- getPageCount
 - com.radaee.util.RadaeePDFManager, 304
- GetPageHeight
 - com.radaee.pdf.Document, 40
 - com.radaee.pdf.SuperDoc, 332
- GetPageLabel
 - com.radaee.pdf.Document, 40
- GetPageNo
 - com.radaee.view.GLPAGE, 89
 - com.radaee.view.PDFVPage, 292
 - com.radaee.view.VPage, 360
- getPageNumber
 - com.radaee.util.RadaeePDFManager, 304
- GetPagesMaxSize
 - com.radaee.pdf.Document, 41
 - com.radaee.pdf.SuperDoc, 333
- GetPageWidth
 - com.radaee.pdf.Document, 41
 - com.radaee.pdf.SuperDoc, 333
- GetPerm
 - com.radaee.pdf.Document, 41
 - com.radaee.pdf.SuperDoc, 333
- GetPermission
 - com.radaee.pdf.Document, 42
 - com.radaee.pdf.SuperDoc, 334
- GetReal
 - com.radaee.pdf.adv.Obj, 119
- GetReason
 - com.radaee.pdf.Sign, 324
- GetReference
 - com.radaee.pdf.adv.Obj, 119
- GetRotate
 - com.radaee.pdf.Page, 152
- GetScreenX
 - com.radaee.reader.PDFGLLayoutView, 191
 - com.radaee.reader.PDFLayoutView, 226
- GetScreenY
 - com.radaee.reader.PDFGLLayoutView, 191
 - com.radaee.reader.PDFLayoutView, 226
- GetSignByteRange
 - com.radaee.pdf.SuperDoc, 334
- GetSignContents
 - com.radaee.pdf.SuperDoc, 334
- GetSignFilter
 - com.radaee.pdf.SuperDoc, 335
- GetSignSubFilter
 - com.radaee.pdf.SuperDoc, 335
- GetTextString
 - com.radaee.pdf.adv.Obj, 119
- GetTitle
 - com.radaee.pdf.Document.Outline, 126
- GetType
 - com.radaee.pdf.adv.Obj, 120
- GetURI
 - com.radaee.pdf.Document.Outline, 126
- GetVX
 - com.radaee.view.GLPAGE, 89
 - com.radaee.view.PDFVPage, 293
 - com.radaee.view.VPage, 360
- GetVY
 - com.radaee.view.GLPAGE, 89
 - com.radaee.view.PDFVPage, 293
 - com.radaee.view.VPage, 360
- GetWidth
 - com.radaee.view.PDFVPage, 293
- GetX
 - com.radaee.view.PDFVPage, 294
- GetXMP
 - com.radaee.pdf.Document, 42
- GetY
 - com.radaee.view.PDFVPage, 294
- gl_click
 - com.radaee.view.GLLayoutCurl, 62
 - com.radaee.view.GLLayoutReflow, 72
- gl_close
 - com.radaee.view.GLLayoutCurl, 63
 - com.radaee.view.GLLayoutReflow, 73
- gl_down

- com.radaee.view.GLLayoutCurl, [63](#)
- gl_draw
 - com.radaee.view.GLLayoutCurl, [63](#)
 - com.radaee.view.GLLayoutDual, [66](#)
 - com.radaee.view.GLLayoutReflow, [73](#)
- gl_draw2
 - com.radaee.view.GLPage, [90](#)
- gl_fling
 - com.radaee.view.GLLayoutCurl, [63](#)
 - com.radaee.view.GLLayoutDual, [67](#)
 - com.radaee.view.GLLayoutDual2, [69](#)
- gl_flush_range
 - com.radaee.view.GLLayoutDual, [67](#)
- gl_layout
 - com.radaee.view.GLLayoutCurl, [63](#)
 - com.radaee.view.GLLayoutDual, [67](#)
 - com.radaee.view.GLLayoutDual2, [69](#)
 - com.radaee.view.GLLayoutHorz, [71](#)
 - com.radaee.view.GLLayoutReflow, [73](#)
 - com.radaee.view.GLLayoutVert, [76](#)
- gl_move
 - com.radaee.view.GLLayoutCurl, [64](#)
- gl_move_end
 - com.radaee.view.GLLayoutCurl, [64](#)
 - com.radaee.view.GLLayoutDual, [67](#)
 - com.radaee.view.GLLayoutDual2, [70](#)
- gl_render
 - com.radaee.view.GLLayout, [61](#)
- gl_resize
 - com.radaee.view.GLLayout, [61](#)
- gl_surface_create
 - com.radaee.view.GLLayoutReflow, [73](#)
- gl_surface_destroy
 - com.radaee.view.GLLayoutCurl, [64](#)
 - com.radaee.view.GLLayoutReflow, [73](#)
- gl_zoom_confirm
 - com.radaee.view.GLLayoutDual, [67](#)
 - com.radaee.view.GLLayoutDual2, [70](#)
 - com.radaee.view.GLLayoutReflow, [74](#)
- gl_zoom_set_pos
 - com.radaee.view.GLLayoutDual, [68](#)
 - com.radaee.view.GLLayoutDual2, [70](#)
- gl_zoom_start
 - com.radaee.view.GLLayoutReflow, [74](#)
- GSRestore
 - com.radaee.pdf.PageContent, [168](#)
- GSSave
 - com.radaee.pdf.PageContent, [168](#)
- GSSet
 - com.radaee.pdf.PageContent, [169](#)
- GSSetMatrix
 - com.radaee.pdf.PageContent, [169](#)
- hideAnnots
 - com.radaee.pdf.Global, [80](#)
- HWriting
 - com.radaee.pdf.HWriting, [97](#)
- ImportAnnot
 - com.radaee.pdf.Page, [152](#)
- ImportFromFile
 - com.radaee.util.PDFAESSStream, [179](#)
- ImportPage
 - com.radaee.pdf.SuperDoc, [335](#)
- ImportStart
 - com.radaee.pdf.Document, [42](#)
 - com.radaee.pdf.SuperDoc, [336](#)
- Init
 - com.radaee.pdf.Global, [80](#)
- Ink
 - com.radaee.pdf.Ink, [105](#)
- inkColor
 - com.radaee.pdf.Global, [86](#)
- inkWidth
 - com.radaee.pdf.Global, [86](#)
- IsEncrypted
 - com.radaee.pdf.Document, [43](#)
 - com.radaee.pdf.SuperDoc, [336](#)
- IsOpened
 - com.radaee.pdf.Document, [43](#)
 - com.radaee.pdf.SuperDoc, [336](#)
- line_annot_width
 - com.radaee.pdf.Global, [86](#)
- LineTo
 - com.radaee.pdf.Path, [177](#)
- MakeGray
 - com.radaee.pdf.DIB, [21](#)
- Matrix
 - com.radaee.pdf.Matrix, [112](#)
- motionNormal
 - com.radaee.view.PDFViewCurl, [268](#)
- MovePage
 - com.radaee.pdf.Document, [43](#)
 - com.radaee.pdf.SuperDoc, [337](#)
- MoveTo
 - com.radaee.pdf.Path, [178](#)
- MulAlpha
 - com.radaee.pdf.BMP, [14](#)
- navigationMode
 - com.radaee.pdf.Global, [86](#)
- NewFontCID
 - com.radaee.pdf.Document, [44](#)
 - com.radaee.pdf.SuperDoc, [337](#)
- NewForm
 - com.radaee.pdf.Document, [44](#)
- NewGState
 - com.radaee.pdf.Document, [44](#)
 - com.radaee.pdf.SuperDoc, [338](#)
- NewImage
 - com.radaee.pdf.Document, [45](#)
 - com.radaee.pdf.SuperDoc, [338](#)
- NewImageByMem
 - com.radaee.pdf.Document, [46](#)
- NewImageJPEG
 - com.radaee.pdf.Document, [46](#)

- com.radaee.pdf.SuperDoc, 338
- NewImageJPX
 - com.radaee.pdf.Document, 46
 - com.radaee.pdf.SuperDoc, 339
- NewPage
 - com.radaee.pdf.Document, 47
 - com.radaee.pdf.SuperDoc, 339
- NewRootOutline
 - com.radaee.pdf.Document, 47
 - com.radaee.pdf.SuperDoc, 340
- ObjsAlignWord
 - com.radaee.pdf.Page, 153
- ObjsGetCharCount
 - com.radaee.pdf.Page, 153
- ObjsGetCharFontName
 - com.radaee.pdf.Page, 153
- ObjsGetCharIndex
 - com.radaee.pdf.Page, 154
- ObjsGetCharRect
 - com.radaee.pdf.Page, 154
- ObjsGetString
 - com.radaee.pdf.Page, 154
- ObjsStart
 - com.radaee.pdf.Page, 156
- OnAlert
 - com.radaee.pdf.Document.PDFJSDelegate, 209
- onAnnotTapped
 - com.radaee.util.RadaeePDFManager, 305
- onBlankTapped
 - com.radaee.util.RadaeePDFManager, 305
- OnCacheRendered
 - com.radaee.reader.PDFLayoutView, 227
- OnConsole
 - com.radaee.pdf.Document.PDFJSDelegate, 210
- OnDocClose
 - com.radaee.pdf.Document.PDFJSDelegate, 210
- onDoubleTapped
 - com.radaee.util.RadaeePDFManager, 305
- OnDown
 - com.radaee.pdf.HWriting, 98
 - com.radaee.pdf.Ink, 105
- OnDraw
 - com.radaee.pdf.HWriting, 98
 - com.radaee.pdf.Ink, 106
- onDraw
 - com.radaee.reader.PDFLayoutView, 227
- OnFound
 - com.radaee.reader.PDFLayoutView, 227
 - com.radaee.view.PDFLayout.LayoutListener, 110
- onLongPressed
 - com.radaee.util.RadaeePDFManager, 305
- OnMove
 - com.radaee.pdf.HWriting, 99
 - com.radaee.pdf.Ink, 106
- OnPageChanged
 - com.radaee.reader.PDFLayoutView, 227
 - com.radaee.view.PDFLayout.LayoutListener, 110
- OnPageDisplayed
 - com.radaee.reader.PDFLayoutView, 228
 - com.radaee.view.PDFLayout.LayoutListener, 111
- OnPageRendered
 - com.radaee.reader.PDFLayoutView, 228
- OnPDFAnnotTapped
 - com.radaee.reader.PDFGLViewAct, 200
 - com.radaee.reader.PDFViewAct, 261
 - com.radaee.view.ILayoutView.PDFLayoutListener, 220
- OnPDFBlankTapped
 - com.radaee.reader.PDFGLViewAct, 200
 - com.radaee.reader.PDFViewAct, 262
 - com.radaee.view.ILayoutView.PDFLayoutListener, 220
- OnPDFDoubleTapped
 - com.radaee.reader.PDFGLViewAct, 200
 - com.radaee.reader.PDFViewAct, 262
 - com.radaee.util.PDFThumbView, 248
 - com.radaee.view.PDFView.PDFViewListener, 276
- OnPDFFound
 - com.radaee.util.PDFThumbView, 249
 - com.radaee.view.PDFView.PDFViewListener, 276
- OnPDFInvalidate
 - com.radaee.util.PDFThumbView, 249
 - com.radaee.view.PDFView.PDFViewListener, 276
- OnPDFLongPressed
 - com.radaee.reader.PDFGLViewAct, 200
 - com.radaee.reader.PDFViewAct, 262
 - com.radaee.util.PDFThumbView, 249
 - com.radaee.view.PDFView.PDFViewListener, 277
- OnPDFOpen3D
 - com.radaee.reader.PDFGLViewAct, 201
 - com.radaee.reader.PDFViewAct, 262
- OnPDFOpenAttachment
 - com.radaee.reader.PDFGLViewAct, 201
 - com.radaee.reader.PDFViewAct, 262
- OnPDFOpenJS
 - com.radaee.reader.PDFGLViewAct, 201
 - com.radaee.reader.PDFViewAct, 263
- OnPDFOpenMovie
 - com.radaee.reader.PDFGLViewAct, 201
 - com.radaee.reader.PDFViewAct, 263
- OnPDFOpenSound
 - com.radaee.reader.PDFGLViewAct, 201
 - com.radaee.reader.PDFViewAct, 263
- OnPDFOpenURI
 - com.radaee.reader.PDFGLViewAct, 202
 - com.radaee.reader.PDFViewAct, 263
- OnPDFPageChanged
 - com.radaee.reader.PDFGLViewAct, 202
 - com.radaee.reader.PDFViewAct, 263
 - com.radaee.util.PDFThumbView, 250
 - com.radaee.view.ILayoutView.PDFLayoutListener, 220

- com.radaee.view.PDFView.PDFViewListener, 277
- OnPDFPageDisplayed
 - com.radaee.reader.PDFGLViewAct, 202
 - com.radaee.reader.PDFViewAct, 264
 - com.radaee.util.PDFThumbView, 250
 - com.radaee.view.ILayoutView.PDFLayoutListener, 220
 - com.radaee.view.PDFView.PDFViewListener, 277
- OnPDFPageModified
 - com.radaee.reader.PDFGLViewAct, 202
 - com.radaee.reader.PDFViewAct, 264
 - com.radaee.view.ILayoutView.PDFLayoutListener, 221
- OnPDFPageRendered
 - com.radaee.reader.PDFGLViewAct, 203
 - com.radaee.reader.PDFViewAct, 264
 - com.radaee.util.PDFThumbView, 250
 - com.radaee.view.ILayoutView.PDFLayoutListener, 221
- OnPDFSearchFinished
 - com.radaee.reader.PDFGLViewAct, 203
 - com.radaee.reader.PDFViewAct, 265
 - com.radaee.view.ILayoutView.PDFLayoutListener, 221
- OnPDFSelectEnd
 - com.radaee.reader.PDFGLViewAct, 203
 - com.radaee.reader.PDFViewAct, 265
 - com.radaee.util.PDFThumbView, 250
 - com.radaee.view.ILayoutView.PDFLayoutListener, 222
 - com.radaee.view.PDFView.PDFViewListener, 278
- OnPDFSelecting
 - com.radaee.util.PDFThumbView, 251
 - com.radaee.view.PDFView.PDFViewListener, 278
- OnPDFShowPressed
 - com.radaee.util.PDFThumbView, 251
 - com.radaee.view.PDFView.PDFViewListener, 278
- OnPDFSingleTapped
 - com.radaee.util.PDFThumbView, 251
 - com.radaee.view.PDFView.PDFViewListener, 280
- OnPDFZoomEnd
 - com.radaee.reader.PDFGLViewAct, 204
 - com.radaee.reader.PDFViewAct, 265
 - com.radaee.util.PDFThumbView, 252
 - com.radaee.view.ILayoutView.PDFLayoutListener, 222
- OnPDFZoomStart
 - com.radaee.reader.PDFGLViewAct, 204
 - com.radaee.reader.PDFViewAct, 265
 - com.radaee.util.PDFThumbView, 252
 - com.radaee.view.ILayoutView.PDFLayoutListener, 222
- OnTimer
 - com.radaee.reader.PDFLayoutView, 228
- OnTmpFile
 - com.radaee.pdf.Document.PDFJSDelegate, 210
- OnUncaughtException
 - com.radaee.pdf.Document.PDFJSDelegate, 211
- OnUp
 - com.radaee.pdf.HWriting, 99
 - com.radaee.pdf.Ink, 106
- Open
 - com.radaee.pdf.Document, 48
 - com.radaee.pdf.SuperDoc, 340
- open
 - com.radaee.util.PDFAESSStream, 180
 - com.radaee.util.PDFHttpStream, 207
- openFromAssets
 - com.radaee.util.RadaeePDFManager, 305, 306
- openFromPath
 - com.radaee.util.RadaeePDFManager, 306
- OpenMem
 - com.radaee.pdf.Document, 49
 - com.radaee.pdf.SuperDoc, 341
- OpenOrCreate
 - com.radaee.pdf.BMDatabase, 10
- OpenStream
 - com.radaee.pdf.Document, 50
 - com.radaee.pdf.SuperDoc, 341
- PDFCancelAnnot
 - com.radaee.reader.PDFGLLayoutView, 191
 - com.radaee.reader.PDFLayoutView, 228
- PDFCanSave
 - com.radaee.reader.PDFGLLayoutView, 191
 - com.radaee.reader.PDFLayoutView, 229
- PDFClose
 - com.radaee.reader.PDFGLLayoutView, 191
 - com.radaee.reader.PDFLayoutView, 229
 - com.radaee.view.ILayoutView, 100
- PDFEditAnnot
 - com.radaee.reader.PDFGLLayoutView, 192
 - com.radaee.reader.PDFLayoutView, 229
- PDFEndAnnot
 - com.radaee.reader.PDFGLLayoutView, 192
 - com.radaee.reader.PDFLayoutView, 229
- PDFFind
 - com.radaee.reader.PDFGLLayoutView, 192
 - com.radaee.reader.PDFLayoutView, 229
- PDFFindEnd
 - com.radaee.reader.PDFGLLayoutView, 192
 - com.radaee.reader.PDFLayoutView, 229
- PDFFindStart
 - com.radaee.reader.PDFGLLayoutView, 192
 - com.radaee.reader.PDFLayoutView, 230
- PDFGetDoc
 - com.radaee.reader.PDFGLLayoutView, 192
 - com.radaee.reader.PDFLayoutView, 230
- PDFGotoPage
 - com.radaee.reader.PDFGLLayoutView, 193
 - com.radaee.reader.PDFLayoutView, 230

- PDFOpen
 - com.radaee.view.ILayoutView, [100](#)
 - com.radaee.view.PDFViewPager, [281](#)
- PDFPerformAnnot
 - com.radaee.reader.PDFGGLLayoutView, [193](#)
 - com.radaee.reader.PDFLayoutView, [230](#)
- PDFRedo
 - com.radaee.reader.PDFGGLLayoutView, [193](#)
 - com.radaee.reader.PDFLayoutView, [230](#)
- PDFRemoveAnnot
 - com.radaee.reader.PDFGGLLayoutView, [193](#)
 - com.radaee.reader.PDFLayoutView, [230](#)
- PDFSave
 - com.radaee.reader.PDFGGLLayoutView, [193](#)
 - com.radaee.reader.PDFLayoutView, [231](#)
- PDFScrollToPage
 - com.radaee.reader.PDFGGLLayoutView, [193](#)
 - com.radaee.reader.PDFLayoutView, [231](#)
- PDFSetAttachment
 - com.radaee.reader.PDFGGLLayoutView, [194](#)
 - com.radaee.reader.PDFLayoutView, [231](#)
- PDFSetEditbox
 - com.radaee.reader.PDFGGLLayoutView, [194](#)
 - com.radaee.reader.PDFLayoutView, [231](#)
 - com.radaee.view.ILayoutView, [101](#)
- PDFSetEllipse
 - com.radaee.reader.PDFGGLLayoutView, [194](#)
 - com.radaee.reader.PDFLayoutView, [232](#)
 - com.radaee.view.ILayoutView, [101](#)
- PDFSetInk
 - com.radaee.reader.PDFGGLLayoutView, [195](#)
 - com.radaee.reader.PDFLayoutView, [232](#)
 - com.radaee.view.ILayoutView, [101](#)
- PDFSetLine
 - com.radaee.reader.PDFGGLLayoutView, [195](#)
 - com.radaee.reader.PDFLayoutView, [232](#)
 - com.radaee.view.ILayoutView, [102](#)
- PDFSetNote
 - com.radaee.reader.PDFGGLLayoutView, [195](#)
 - com.radaee.reader.PDFLayoutView, [233](#)
 - com.radaee.view.ILayoutView, [102](#)
- PDFSetPolygon
 - com.radaee.reader.PDFGGLLayoutView, [196](#)
 - com.radaee.reader.PDFLayoutView, [233](#)
- PDFSetPolyline
 - com.radaee.reader.PDFGGLLayoutView, [196](#)
 - com.radaee.reader.PDFLayoutView, [233](#)
- PDFSetRect
 - com.radaee.reader.PDFGGLLayoutView, [196](#)
 - com.radaee.reader.PDFLayoutView, [233](#)
 - com.radaee.view.ILayoutView, [103](#)
- PDFSetSelect
 - com.radaee.reader.PDFGGLLayoutView, [196](#)
 - com.radaee.reader.PDFLayoutView, [234](#)
 - com.radaee.view.ILayoutView, [103](#)
- PDFSetSelMarkup
 - com.radaee.reader.PDFGGLLayoutView, [197](#)
 - com.radaee.reader.PDFLayoutView, [234](#)
- PDFSetStamp
 - com.radaee.reader.PDFGGLLayoutView, [197](#)
 - com.radaee.reader.PDFLayoutView, [234](#)
 - com.radaee.view.ILayoutView, [103](#)
- PDFSetView
 - com.radaee.reader.PDFGGLLayoutView, [197](#)
 - com.radaee.reader.PDFLayoutView, [234](#)
 - com.radaee.view.ILayoutView, [103](#)
- PDFUndo
 - com.radaee.reader.PDFGGLLayoutView, [198](#)
 - com.radaee.reader.PDFLayoutView, [235](#)
- PDFUpdatePage
 - com.radaee.reader.PDFGGLLayoutView, [198](#)
 - com.radaee.reader.PDFLayoutView, [235](#)
- read
 - com.radaee.pdf.Document.PDFStream, [244](#)
 - com.radaee.util.PDFAESSStream, [180](#)
 - com.radaee.util.PDFAssetStream, [183](#)
 - com.radaee.util.PDFFileStream, [187](#)
 - com.radaee.util.PDFHttpStream, [207](#)
 - com.radaee.util.PDFMemStream, [237](#)
- readerViewBgColor
 - com.radaee.pdf.Global, [86](#)
- RecClose
 - com.radaee.pdf.BMDatabase, [10](#)
- RecGetCount
 - com.radaee.pdf.BMDatabase, [11](#)
- RecItemGetName
 - com.radaee.pdf.BMDatabase, [11](#)
- RecItemGetPage
 - com.radaee.pdf.BMDatabase, [11](#)
- RecItemInsert
 - com.radaee.pdf.BMDatabase, [12](#)
- RecItemRemove
 - com.radaee.pdf.BMDatabase, [12](#)
- RecOpen
 - com.radaee.pdf.BMDatabase, [13](#)
- rect__annot__width
 - com.radaee.pdf.Global, [87](#)
- Reflow
 - com.radaee.pdf.Page, [156](#)
- ReflowGetCharColor
 - com.radaee.pdf.Page, [156](#)
- ReflowGetCharCount
 - com.radaee.pdf.Page, [157](#)
- ReflowGetCharFont
 - com.radaee.pdf.Page, [157](#)
- ReflowGetCharHeight
 - com.radaee.pdf.Page, [157](#)
- ReflowGetCharRect
 - com.radaee.pdf.Page, [158](#)
- ReflowGetCharUnicode
 - com.radaee.pdf.Page, [158](#)
- ReflowGetCharWidth
 - com.radaee.pdf.Page, [159](#)
- ReflowGetParaCount
 - com.radaee.pdf.Page, [159](#)
- ReflowGetText

- com.radaee.pdf.Page, 159
- ReflowStart
 - com.radaee.pdf.Page, 160
- ReflowToBmp
 - com.radaee.pdf.Page, 160
- removeBookmark
 - com.radaee.util.RadaeePDFManager, 306
- RemoveFromDoc
 - com.radaee.pdf.Document.Outline, 127
- RemovePage
 - com.radaee.pdf.Document, 50
 - com.radaee.pdf.SuperDoc, 342
- RemoveTmp
 - com.radaee.pdf.Global, 81
- Render
 - com.radaee.pdf.Page, 161
 - com.radaee.view.VThread, 364
- Render_Normal
 - com.radaee.pdf.Page, 161
- renderAnnotToFile
 - com.radaee.util.RadaeePDFManager, 307
- RenderCancel
 - com.radaee.pdf.Page, 161
- RenderIsFinished
 - com.radaee.pdf.Page, 161
- RenderPrepare
 - com.radaee.pdf.Page, 162
- RenderThumb
 - com.radaee.pdf.Page, 162
- RenderThumbToBuf
 - com.radaee.pdf.Page, 163
- RenderToBmp
 - com.radaee.pdf.Page, 163
- RenderToBuf
 - com.radaee.pdf.Page, 163
- RestorePixs
 - com.radaee.pdf.BMP, 14
 - com.radaee.pdf.DIB, 21
- RunJS
 - com.radaee.pdf.Document, 52
- Save
 - com.radaee.pdf.Document, 52
 - com.radaee.pdf.SuperDoc, 342
- SaveAs
 - com.radaee.pdf.Document, 52
 - com.radaee.pdf.SuperDoc, 342
- SavePixs
 - com.radaee.pdf.BMP, 15
 - com.radaee.pdf.DIB, 21
- seek
 - com.radaee.pdf.Document.PDFStream, 244
 - com.radaee.util.PDFAESStream, 180
 - com.radaee.util.PDFAssetStream, 183
 - com.radaee.util.PDFFileStream, 187
 - com.radaee.util.PDFHttpStream, 208
 - com.radaee.util.PDFMemStream, 237
- setColor
 - com.radaee.pdf.Global, 87
- setAnnotTransparency
 - com.radaee.pdf.Global, 81
- SetArray
 - com.radaee.pdf.adv.Obj, 120
- SetAsciiString
 - com.radaee.pdf.adv.Obj, 120
- SetBlendMode
 - com.radaee.pdf.Document.DocGState, 25
- SetBoolean
 - com.radaee.pdf.adv.Obj, 121
- SetCache
 - com.radaee.pdf.Document, 53
 - com.radaee.pdf.SuperDoc, 343
- SetContent
 - com.radaee.pdf.Document.DocForm, 24
- setDebugMode
 - com.radaee.util.RadaeePDFManager, 307
- SetDict
 - com.radaee.pdf.adv.Obj, 121
- SetFillAlpha
 - com.radaee.pdf.Document.DocGState, 26
- SetFillColor
 - com.radaee.pdf.PageContent, 169
- setFirstPageCover
 - com.radaee.util.RadaeePDFManager, 308
- SetFontDel
 - com.radaee.pdf.Document, 53
 - com.radaee.pdf.SuperDoc, 343
- setFormFieldsWithJSON
 - com.radaee.util.RadaeePDFManager, 308
- SetHexString
 - com.radaee.pdf.adv.Obj, 121
- setIconsBGColor
 - com.radaee.util.RadaeePDFManager, 308
- setImmersive
 - com.radaee.util.RadaeePDFManager, 308
- SetInt
 - com.radaee.pdf.adv.Obj, 121
- setLayoutType
 - com.radaee.util.RadaeePDFManager, 309
- SetMeta
 - com.radaee.pdf.Document, 54
 - com.radaee.pdf.SuperDoc, 344
- SetName
 - com.radaee.pdf.adv.Obj, 122
- setNavigationMode
 - com.radaee.reader.PDFViewController, 267
- SetOpenFlag
 - com.radaee.pdf.Document, 54
- SetPageRotate
 - com.radaee.pdf.Document, 54
 - com.radaee.pdf.SuperDoc, 344
- setReaderBGColor
 - com.radaee.util.RadaeePDFManager, 309
- setReaderViewMode
 - com.radaee.util.RadaeePDFManager, 309
- SetReal
 - com.radaee.pdf.adv.Obj, 122

- SetReference
 - com.radaee.pdf.adv.Obj, [122](#)
- SetStrokeAlpha
 - com.radaee.pdf.Document.DocGState, [26](#)
- SetStrokeCap
 - com.radaee.pdf.PageContent, [169](#)
- SetStrokeColor
 - com.radaee.pdf.PageContent, [170](#)
- SetStrokeDash
 - com.radaee.pdf.Document.DocGState, [27](#)
- SetStrokeJoin
 - com.radaee.pdf.PageContent, [170](#)
- SetStrokeMiter
 - com.radaee.pdf.PageContent, [170](#)
- SetStrokeWidth
 - com.radaee.pdf.PageContent, [171](#)
- SetTextString
 - com.radaee.pdf.adv.Obj, [122](#)
- setThumbHeight
 - com.radaee.util.RadaeePDFManager, [310](#)
- setThumbnailBGColor
 - com.radaee.util.RadaeePDFManager, [310](#)
- SetTitle
 - com.radaee.pdf.Document.Outline, [127](#)
- setTitleBGColor
 - com.radaee.util.RadaeePDFManager, [310](#)
- SetTransparency
 - com.radaee.pdf.Document.DocForm, [25](#)
- SetXMP
 - com.radaee.pdf.Document, [55](#)
- show
 - com.radaee.util.RadaeePDFManager, [310](#), [311](#)
- Sign
 - com.radaee.pdf.Page, [164](#)
- signField
 - com.radaee.util.CommonUtil, [19](#)
- StrokePath
 - com.radaee.pdf.PageContent, [171](#)
- SuperDoc
 - com.radaee.pdf.SuperDoc, [326](#)
- surfaceCreated
 - com.radaee.reader.GLView, [95](#)
- tell
 - com.radaee.pdf.Document.PDFStream, [245](#)
 - com.radaee.util.PDFAESSStream, [181](#)
 - com.radaee.util.PDFAssetStream, [184](#)
 - com.radaee.util.PDFFileStream, [187](#)
 - com.radaee.util.PDFHttpStream, [208](#)
 - com.radaee.util.PDFMemStream, [238](#)
- TextBegin
 - com.radaee.pdf.PageContent, [171](#)
- TextEnd
 - com.radaee.pdf.PageContent, [171](#)
- TextGetSize
 - com.radaee.pdf.PageContent, [171](#)
- TextMove
 - com.radaee.pdf.PageContent, [172](#)
- TextNextLine
 - com.radaee.pdf.PageContent, [172](#)
- TextSetCharSpace
 - com.radaee.pdf.PageContent, [172](#)
- TextSetFont
 - com.radaee.pdf.PageContent, [173](#)
- TextSetHScale
 - com.radaee.pdf.PageContent, [173](#)
- TextSetLeading
 - com.radaee.pdf.PageContent, [173](#)
- TextSetRenderMode
 - com.radaee.pdf.PageContent, [173](#)
- TextSetRise
 - com.radaee.pdf.PageContent, [175](#)
- TextSetWordSpace
 - com.radaee.pdf.PageContent, [175](#)
- thumbGotoPage
 - com.radaee.util.PDFThumbView, [252](#)
- thumbGridBgColor
 - com.radaee.pdf.Global, [87](#)
- thumbGridElementGap
 - com.radaee.pdf.Global, [87](#)
- thumbGridElementHeight
 - com.radaee.pdf.Global, [87](#)
- thumbGridViewMode
 - com.radaee.pdf.Global, [87](#)
- thumbUpdatePage
 - com.radaee.util.PDFThumbView, [252](#)
- thumbViewBgColor
 - com.radaee.pdf.Global, [87](#)
- thumbViewHeight
 - com.radaee.pdf.Global, [87](#)
- tmp_path
 - com.radaee.pdf.Global, [88](#)
- ToDIBPoint
 - com.radaee.pdf.Global, [81](#)
- ToDIBRect
 - com.radaee.pdf.Global, [82](#)
- ToDIBX
 - com.radaee.view.GLPage, [90](#)
 - com.radaee.view.ILayoutView.IVPage, [108](#)
 - com.radaee.view.PDFVPage, [294](#)
 - com.radaee.view.VPage, [360](#)
- ToDIBY
 - com.radaee.view.GLPage, [90](#)
 - com.radaee.view.ILayoutView.IVPage, [109](#)
 - com.radaee.view.PDFVPage, [295](#)
 - com.radaee.view.VPage, [361](#)
- ToPDFPoint
 - com.radaee.pdf.Global, [83](#)
- ToPDFRect
 - com.radaee.pdf.Global, [83](#), [84](#)
- ToPDFSize
 - com.radaee.view.GLPage, [91](#)
 - com.radaee.view.PDFVPage, [295](#)
 - com.radaee.view.VPage, [361](#)
- ToPDFX
 - com.radaee.view.GLPage, [91](#)
 - com.radaee.view.ILayoutView.IVPage, [109](#)

- com.radaee.view.PDFVPage, 295
 - com.radaee.view.VPage, 361
- ToPDFY
 - com.radaee.view.GLPAGE, 91
 - com.radaee.view.ILayoutView.IVPage, 109
 - com.radaee.view.PDFVPage, 296
 - com.radaee.view.VPage, 362
- vCanSave
 - com.radaee.view.GLLayoutReflow, 74
- vCenterPage
 - com.radaee.view.PDFView, 256
 - com.radaee.view.PDFViewDual, 271
- vClose
 - com.radaee.view.PDFLayoutDual, 216
 - com.radaee.view.PDFViewCurl, 268
 - com.radaee.view.PDFViewReflow, 282
 - com.radaee.view.PDFViewThumb, 285
- vDraw
 - com.radaee.view.PDFLayout, 213
 - com.radaee.view.PDFViewCurl, 268
 - com.radaee.view.PDFViewReflow, 282
 - com.radaee.view.PDFViewThumb, 285
- VerifySign
 - com.radaee.pdf.Document, 55
- vFindGoto
 - com.radaee.view.PDFViewCurl, 268
 - com.radaee.view.PDFViewReflow, 282
- vFindStart
 - com.radaee.view.GLLayoutReflow, 74
- vFling
 - com.radaee.view.PDFLayoutDual, 216
- vFlushRange
 - com.radaee.view.PDFViewThumb, 285
- vGetHeight
 - com.radaee.view.PDFLayout, 214
- vGetLock
 - com.radaee.view.PDFView, 257
- vGetOrientation
 - com.radaee.view.PDFViewThumb, 286
- vGetPage
 - com.radaee.view.GLLayoutCurl, 64
 - com.radaee.view.GLLayoutDual, 68
 - com.radaee.view.GLLayoutDual2, 70
 - com.radaee.view.GLLayoutHorz, 71
 - com.radaee.view.GLLayoutReflow, 74
 - com.radaee.view.GLLayoutVert, 76
 - com.radaee.view.PDFLayoutDual, 216
 - com.radaee.view.PDFLayoutHorz, 218
 - com.radaee.view.PDFLayoutVert, 223
 - com.radaee.view.PDFView, 257
 - com.radaee.view.PDFViewCurl, 269
 - com.radaee.view.PDFViewDual, 271
 - com.radaee.view.PDFViewHorz, 274
 - com.radaee.view.PDFViewReflow, 282
 - com.radaee.view.PDFViewThumb, 286
 - com.radaee.view.PDFViewVert, 289
- vGetPos
 - com.radaee.view.GLLayoutCurl, 64
- com.radaee.view.GLLayoutReflow, 75
 - com.radaee.view.PDFView, 257
 - com.radaee.view.PDFViewReflow, 282
- vGetScale
 - com.radaee.view.PDFView, 258
- vGetTHeight
 - com.radaee.view.PDFLayout, 214
- vGetTWidth
 - com.radaee.view.PDFLayout, 214
- vGetWidth
 - com.radaee.view.PDFLayout, 214
- vGotoPage
 - com.radaee.view.GLLayoutCurl, 65
 - com.radaee.view.GLLayoutDual, 68
 - com.radaee.view.GLLayoutDual2, 70
 - com.radaee.view.GLLayoutReflow, 75
 - com.radaee.view.PDFLayoutDual, 216
 - com.radaee.view.PDFViewCurl, 269
 - com.radaee.view.PDFViewDual, 271
 - com.radaee.view.PDFViewReflow, 283
- vLayout
 - com.radaee.view.PDFLayoutDual, 217
 - com.radaee.view.PDFLayoutHorz, 218
 - com.radaee.view.PDFLayoutVert, 223
 - com.radaee.view.PDFView, 258
 - com.radaee.view.PDFViewCurl, 269
 - com.radaee.view.PDFViewDual, 272
 - com.radaee.view.PDFViewHorz, 274
 - com.radaee.view.PDFViewReflow, 283
 - com.radaee.view.PDFViewThumb, 286
 - com.radaee.view.PDFViewVert, 289
- vMoveEnd
 - com.radaee.view.PDFLayoutDual, 217
- vOnFling
 - com.radaee.view.PDFViewDual, 272
 - com.radaee.view.PDFViewReflow, 283
 - com.radaee.view.PDFViewThumb, 286
- vOnMoveEnd
 - com.radaee.view.PDFViewDual, 272
 - com.radaee.view.PDFViewThumb, 286
- vOnTimer
 - com.radaee.view.PDFViewCurl, 269
- vOnZoomEnd
 - com.radaee.view.PDFViewDual, 272
- vOpen
 - com.radaee.view.PDFLayout, 214
 - com.radaee.view.PDFLayoutDual, 217
 - com.radaee.view.PDFLayoutHorz, 218
 - com.radaee.view.PDFPageView, 242
 - com.radaee.view.PDFViewCurl, 269
 - com.radaee.view.PDFViewDual, 272
 - com.radaee.view.PDFViewHorz, 274
 - com.radaee.view.PDFViewReflow, 283
 - com.radaee.view.PDFViewThumb, 287
- vRenderAsync
 - com.radaee.view.PDFLayout, 214
 - com.radaee.view.PDFView, 258
- vResize

- com.radaee.view.PDFLayout, 215
 - com.radaee.view.PDFLayoutHorz, 218
 - com.radaee.view.PDFViewDual, 273
 - com.radaee.view.PDFViewHorz, 275
 - com.radaee.view.PDFViewThumb, 287
- vScrollToPage
 - com.radaee.view.GLLayoutCurl, 65
 - com.radaee.view.GLLayoutDual, 68
 - com.radaee.view.GLLayoutDual2, 71
 - com.radaee.view.GLLayoutReflow, 75
 - com.radaee.view.PDFLayoutDual, 217
- vSetLayoutPara
 - com.radaee.view.PDFViewDual, 273
- vSetLock
 - com.radaee.view.PDFView, 258
- vSetOrientation
 - com.radaee.view.PDFViewThumb, 287
- vSetPageAlign
 - com.radaee.view.PDFViewVert, 289
- vSetPos
 - com.radaee.view.GLLayoutCurl, 65
 - com.radaee.view.GLLayoutReflow, 75
 - com.radaee.view.PDFView, 259
 - com.radaee.view.PDFViewCurl, 270
 - com.radaee.view.PDFViewReflow, 283
- vSetScale
 - com.radaee.view.PDFView, 259
- vSetSel
 - com.radaee.view.PDFViewThumb, 287
- vSetSelMarkup
 - com.radaee.view.PDFView, 259
- vSingleTap
 - com.radaee.view.PDFViewReflow, 284
 - com.radaee.view.PDFViewThumb, 288
- vSupportZoom
 - com.radaee.view.GLLayoutCurl, 65
 - com.radaee.view.GLLayoutReflow, 75
- willCloseReader
 - com.radaee.util.RadaeePDFManager, 311
- willShowReader
 - com.radaee.util.RadaeePDFManager, 312
- write
 - com.radaee.pdf.Document.PDFStream, 245
 - com.radaee.util.PDFAESSStream, 181
 - com.radaee.util.PDFAssetStream, 184
 - com.radaee.util.PDFFileStream, 188
 - com.radaee.util.PDFHttpStream, 208
 - com.radaee.util.PDFMemStream, 238
- writable
 - com.radaee.pdf.Document.PDFStream, 245
 - com.radaee.util.PDFAESSStream, 181
 - com.radaee.util.PDFAssetStream, 184
 - com.radaee.util.PDFFileStream, 188
 - com.radaee.util.PDFHttpStream, 209
 - com.radaee.util.PDFMemStream, 238