# PDFix API

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## Modules

Here is a list of all modules:



# Hierarchical Index

## Class Hierarchy

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

# Class Index

## Class List

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

# Module Documentation

## Enumerations

Pdfix API.

## Enumerations

- enum PdfAuthPlatform *PdfAuthPlatform.*
- enum PdfAuthOption *PdfAuthOption.*
- enum { kErrorUnknown = 1, kErrorOutOfMemory, kErrorMalformedInput, kErrorPdfDocInvalid, kErrorPdfDocOpen, kErrorPdfDocSave, kErrorPdfDocClose, kErrorPdfDigSigUnknownType, kErrorPdfDigSigCallback, kErrorPdfPageMapCantInsertTj, kErrorPdfPageMapWhitespaceOutOfRange, kErrorPsEventMalformed, kErrorPsEventExists, kErrorPsNoEvent, kErrorPdfBookmarkMalformed, kErrorPdfBookmarkRoot, kErrorPdfBookmarkChildrenOutOfRange, kErrorPsAuthorizationFailed, kErrorPsAuthorizationNeeded, kErrorPsAuthorizationCalled, kErrorPsAuthorizationEmail, kErrorPsAuthorizationWin, kErrorPsAuthorizationMac, kErrorPsAuthorizationAndroid, kErrorPsAuthorizationiOS, kErrorPsAuthorizationLinux, kErrorPsAuthorizationFeature, kErrorPsAuthorizationDate, kErrorPdfFontNotEmbedded, kErrorPdfFontSave } *PdfErrorType.*
- enum PdfEventType { kEventUnknown = 0, kEventDocWillSave, kEventDocWillClose, kEventDocDidOpen, kEventDocDidSave, kEventAnnotWillChange, kEventAnnotDidChange, kEventPageWillAddAnnot, kEventPageWillRemoveAnnot, kEventPageDidAddAnnot, kEventPageDidRemoveAnnot, kEventageContentsDidChange } *PdfEventType.*
- enum PdfSaveFlags { kSaveIncremental = 0, kSaveFull } *PdfSaveFlags.*
- enum PdfDigSigValidState { kDigSigBlank = 0, kDigSigUnknown, kDigSigInvalid, kDigSigValid, kDigSigDoubleChecked, kDigSigValidStateEnumSize } *PdfDigSigValidState.*
- enum PdfAlignment { kAlignmentNone = 0, kAlignmentLeft, kAlignmentRight, kAlignmentJustify, kAlignmentTop, kAlignmentBottom, kAlignmentCenter } *PdfAlignment.*
- enum PdfRotate { kRotate0 = 0, kRotate90 = 90, kRotate180 = 180, kRotate270 = 270 } *PdfRotate.*
- enum PdfElementType { kPdeUnknown = 0, kPdeText, kPdeTextLine, kPdeWord, kPdeTextRun, kPdeImage, kPdeContainer, kPdeSection, kPdeLine, kPdeRect, kPdeTable, kPdeCell, kPdeFormField, kPdeHeader, kPdeFooter, kPdeChart } *PdfElementType.*
- enum PdfLineCap { kPdfLineCapButt = 0, kPdfLineCapRound, kPdfLineCapSquare } *Line Cap Style.*
- enum PdfLineJoin { kPdfLineJoinMiter = 0, kPdfLineJoinRound, kPdfLineJoinBevel } *Line Join Style.*

- enum PdfFillType *PdfFillType.*
- enum PdfTextAlignment *PdfTextAlignment.*
- enum PdfAnnotSubtype { kAnnotUnknown = 0, kAnnotText, kAnnotLink, kAnnotFreeText, kAnnotLine, kAnnotSquare, kAnnotCircle, kAnnotPolygon, kAnnotPolyLine, kAnnotHighlight, kAnnotUnderline, kAnnotSquiggly, kAnnotStrikeOut, kAnnotStamp, kAnnotCaret, kAnnotInk, kAnnotPopup, kAnnotFileAttachment, kAnnotSound, kAnnotMovie, kAnnotWidget, kAnnotScreen, kAnnotPrinterMark, kAnnotTrapNet, kAnnotWatermark, kAnnot3D, kAnnotRedact }*Annotation Types.*
- enum { kAnnotFlagNone = 0x0000, kAnnotFlagInvisible = 0x0001, kAnnotFlagHidden = 0x0002, kAnnotFlagPrint = 0x0004, kAnnotFlagNoZoom = 0x0008, kAnnotFlagNoRotate = 0x0010, kAnnotFlagNoView = 0x0020, kAnnotFlagReadOnly = 0x0040, kAnnotFlagLocked = 0x0080, kAnnotFlagToggleNoView = 0x0100, kAnnotFlagLockedContents = 0x0200 }*PdfAnnotFlags.*
- enum { kRemoveAnnotSingle = 0x0000, kRemoveAnnotPopup = 0x0001, kRemoveAnnotReply = 0x0002 }*PdfRemoveAnnotFlags.*
- enum PdfBorderStyle *PdfBorderStyle.*
- enum { kTextFlagNone = 0x000, kTextFlagUnderline = 0x001, kTextFlagStrikeout = 0x002, kTextFlagHighlight = 0x004, kTextFlagSubscript = 0x008, kTextFlagSuperscript = 0x010, kTextFlagNoUnicode = 0x020, kTextFlagPatternFill = 0x040, kTextFlagPatternStroke = 0x080, kTextFlagAngle = 0x100 }*PdfTextStateFlag.*
- enum *PdfFieldFlags.*
- enum PdfFieldType *PdfFieldType.*
- enum PdfActionEventType { kActionEventAnnotEnter = 0, kActionEventAnnotExit, kActionEventAnnotMouseDown, kActionEventAnnotMouseUp, kActionEventAnnotFocus, kActionEventAnnotBlur, kActionEventAnnotPageOpen, kActionEventAnnotPageClose, kActionEventAnnotPageVisible, kActionEventAnnotPageInvisible, kActionEventPageOpen, kActionEventPageClose, kActionEventFieldKeystroke, kActionEventFieldFormat, kActionEventFieldValidate, kActionEventFieldCalculate, kActionEventDocWillClose, kActionEventDocWillSave, kActionEventDocDidSave, kActionEventDocWillPrint, kActionEventDocDidPrint }*PdfActionEventType.*
- enum PdfActionType { kActionUnknown = 0, kActionGoTo, kActionGoToR, kActionGoToE, kActionLaunch, kActionThread, kActionURI, kActionSound, kActionMovie, kActionHide, kActionNamed, kActionSubmitForm, kActionResetForm, kActionImportData, kActionJavaScript, kActionSetOCGState, kActionRendition, kActionTrans, kActionGoTo3DView }*PdfActionType.*
- enum { kRenderAnnot = 0x001, kRenderLCDText = 0x002, kRenderNoNativeText = 0x004, kRenderGrayscale = 0x008, kRenderLimitedCache = 0x010, kRenderForceHalftone = 0x020, kRenderPrinting = 0x040, kRenderNoText = 0x080, kRenderNoBackground = 0x100 }*PdfRenderFlags.*
- enum PdfRenderMode { kRenderElemNone = 0, kRenderElemWithChildren, kRenderElemWithoutChildren }*PdfRenderMode.*
- enum { kPageMapNone = 0x00, kPageMapIgnoreBackgroundImages = 0x01 }*PdfPageMapFlags.*
- enum PdfImageFormat { kImageFormatBmp = 0, kImageFormatEmf, kImageFormatPng, kImageFormatJpg }*PdfImageFormat.*
- enum { kFontFixedPitch = 0x00001, kFontSerif = 0x00002, kFontSymbolic = 0x00004, kFontScript = 0x00008, kFontNotSymbolic = 0x00020, kFontItalic = 0x00040, kFontAllCap = 0x10000, kFontSmallCap = 0x20000, kFontForceBold = 0x40000 }*PdfFontFlags.*
- enum PdfFontCharset { kFontAnsiCharset = 0, kFontDefaultCharset = 1, kFontSymbolCharset = 2, kFontUnknownCharset = 3, kFontMacintoshCharset = 77, kFontShiftJISCharset = 128, kFontHangeulCharset = 129, kFontKoreanCharset = 130,

kFontGB2312Charset = 134, kFontCHineseBig5Charset = 136, kFontGreekCharset = 161, kFontTurkishCharset = 162, kFontVietnameseCharset = 163, kFontHebrewCharset = 177, kFontArabicCharset = 178, kFontArabicTCharset = 179, kFontArabicUCharset = 180, kFontHebrewUCharset = 181, kFontBalticCharset = 186, kFontRussianCharset = 204, kFontThaiCharset = 222, kFontEastEuropeCharset = 238 }*PdfFontCharset.*

- enum PdfPageRangeType *PdfPageRangeType.*
- enum PdfFontType { , kFontType1, kFontTrueType, kFontType3, kFontCIDFont }*PdfFontType.*
- enum PdfFontFormat { kFontFormatTtf = 0, kFontFormatWoff }*PdfFontFormat.*
- enum PdfDestZoomType { kPdfZoomXYZ = 1, kPdfZoomFitPage, kPdfZoomFitHorz, kPdfZoomFitVert, kPdfZoomFitRect, kPdfZoomFitBbox, kPdfZoomFitBHorz, kPdfZoomFitBVert }*PdfDestZoomType.*
- enum PdfDigSigType { kDigSigOpenSSL, kDigSigCert, kDigSigCustom }*PdfDigSigType.*
- enum PdfImageType { kImageFigure, kImageImage, kImagePath, kImageRect, kImageShading }*PdfImageType.*
- enum { kWordHyphen = 0x0001, kWordBullet = 0x0002, kWordFilling = 0x0008, kWordNumber = 0x0010, kWordImage = 0x10000 }*PdfWordFlags.*
- enum { kTextLineNewLine = 0x0001, kTextLineBullet = 0x0002, kTextLineHyphen = 0x0004, kTextLineIndent = 0x0008, kTextLineDropCap = 0x0010 }*PdfTextLineFlags.*
- enum PdfTextStyle { kTextNormal, kTextH4 }*PdfTextStyle.*
- enum PdfRegexType { kRegexHyphen = 0, kRegexBullet, kRegexBulletLine, kRegexFilling, kRegexToc, kRegexNumber, kRegexAllCaps, kRegexFirstCap, kRegexCurrency, kRegexPercent, kRegexTerminal, kRegexTableCaption, kRegexImageCaption, kRegexChartCaption, kRegexMapCaption, kRegexNoteCaption, kRegexNumberedList, kRegexSentences, kRegexAlphaNum }*PdfRegexType.*

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# Detailed Description

Pdfix API.
Pdfix.

### Author:

pdfix.net

### Version:

1.0.0

### Date:

2016

### Copyright:



Public enumeration types

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# Enumeration Type Documentation

## anonymous enum

PdfErrorType.

Error types.

**Enumerator:**

| | |
|---|---|
| kErrorUnknown | Unknown error. |
| kErrorOutOfMemory | Out of memory error. |
| kErrorMalformedInput | Malformed input parameter. |
| kErrorPdfDocInvalid | Invalid document. |
| kErrorPdfDocOpen | Open document failed. |
| kErrorPdfDocSave | Save document failed. |
| kErrorPdfDocClose | Close document failed. |
| kErrorPdfDigSigUnknownType | Must be one of PdfDigSigType types. |
| kErrorPdfDigSigCallback | Digital signature callbacks were not set properly. |
| kErrorPdfPageMapCantInsertTj | Damaged text run vector. |
| kErrorPdfPageMapWhitespaceOutOfRange | Whitespace index is out of range. |
| kErrorPsEventMalformed | Events handling error. |
| kErrorPsEventExists | Event is already registered. |
| kErrorPsNoEvent | Event is not registered. |
| kErrorPdfBookmarkMalformed | Bookmark is malformed. |
| kErrorPdfBookmarkRoot | Document bookmark root is malformed. |
| kErrorPdfBookmarkChildrenOutOfRange | Bookmark index is out of range. |
| kErrorPsAuthorizationFailed | Pdfix is not authorized. |
| kErrorPsAuthorizationNeeded | Call Pdfix::Authorize to authorize Pdfix. |

| | |
|---|---|
| kErrorPsAuthorizationCalled | Don't call Pdfix::Authorize more that once. |
| kErrorPsAuthorizationEmail | Serial number doesn't match an email. |
| kErrorPsAuthorizationWin | Win platform is not supported with the serial number. |
| kErrorPsAuthorizationMac | Mac platform is not supported with the serial number. |
| kErrorPsAuthorizationAndroid | Android platform is not supported with the serial number. |
| kErrorPsAuthorizationiOS | iOS platform is not supported with the serial number. |
| kErrorPsAuthorizationLinux | Linux platform is not supported with the serial number. |
| kErrorPsAuthorizationFeature | Feature is not supported with the serial number. |
| kErrorPsAuthorizationDate | Serial number expired. |
| kErrorPdfFontNotEmbedded | Font is not embedded |
| kErrorPdfFontSave | Font save error |

## anonymous enum

PdfAnnotFlags.

Annotation flags.

**Enumerator:**

| | |
|---|---|
| kAnnotFlagNone | Default value. |
| kAnnotFlagInvisible | If there is no annotation handler, the annotation is invisible. |
| kAnnotFlagHidden | The annotation is not visible and does not print. |
| kAnnotFlagPrint | The annotation prints. |
| kAnnotFlagNoZoom | The annotation does not zoom with the view. |
| kAnnotFlagNoRotate | The annotation does not rotate with the page. |
| kAnnotFlagNoView | The annotation does not view but can print. |
| kAnnotFlagReadOnly | The annotation does not interact with the user. |
| kAnnotFlagLocke | The annotation does not move or resize with the view. Currently |

| | |
|---|---|
| d | only form fields respect this flag. If the annotation is locked, the user cannot delete, move or change its associated form field's properties. |
| kAnnotFlagToggleNoView | A mouse-over or selection causes the kAnnotFlagNoView bit to toggle. |
| kAnnotFlagLockedContents | If the annotation is content-locked, the user can not change its content key. |

## anonymous enum

PdfRemoveAnnotFlags.

Remove annotation flags.

**Enumerator:**

| | |
|---|---|
| kRemoveAnnotSingle | / Remove only annotation specified by the annotation index. |
| kRemoveAnnotPopup | / Remove popup connected to the markup annotation. |
| kRemoveAnnotReply | / Remove all replies connected to the markup annotation. |

## anonymous enum

PdfTextStateFlag.

Character state.

**Enumerator:**

| | |
|---|---|
| kTextFlagNone | No decorations on text. |
| kTextFlagUnderline | Text is underline. |
| kTextFlagStrikeout | Text is strikeout. |
| kTextFlagHighlight | Text is highlight. |
| kTextFlagSubscript | Is subscript. |
| kTextFlagSuperscript | Is superscript. |
| kTextFlagNoUnicode | There is no unicode representation. |
| kTextFlagPatternFill | Text is filled with pattern. |

| | |
|---|---|
| kTextFlagPatternStroke | Text is stroked with pattern. |
| kTextFlagAngle | Text is rotated. |

## anonymous enum

PdfFieldFlags.

Field flags.

## anonymous enum

PdfRenderFlags.

Page rendering flags.

**Enumerator:**

| | |
|---|---|
| kRenderAnnot | Set if annotations are to be rendered. |
| kRenderLCDText | Set if using text rendering optimized for LCD display. |
| kRenderNoNativeText | Don't use the native text output available on some platforms |
| kRenderGrayscale | Grayscale output. |
| kRenderLimitedCache | Limit image cache size. |
| kRenderForceHalftone | Always use halftone for image stretching. |
| kRenderPrinting | Render for printing. |
| kRenderNoText | Set to disable text rendering. |
| kRenderNoBackground | Set to use transparent background. |

## anonymous enum

PdfPageMapFlags.

Specifies a various page map construction flags.

**Enumerator:**

| | |
|---|---|
| kPageMapNone | Basic page map. |
| kPageMapIgnoreBackgroundImages | Ignores background images. |

## anonymous enum

PdfFontFlags.

Specifies a various characteristics of the font.

**Enumerator:**

| | |
|---|---|
| kFontFixedPitch | All glyphs have the same width. |
| kFontSerif | Glyphs have serifs, which are short strokes drawn at an angle on the top and bottom of glyph stems. Sans serif fonts do not have serifs. |
| kFontSymbolic | Font contains glyphs outside the Adobe standard Latin character set. This flag and the kFontNotSymbolic flag cannot both be set or both be clear. |
| kFontScript | Glyphs resemble cursive handwriting. |
| kFontNotSymbolic | Font uses the Adobe standard Latin character set or a subset of it. |
| kFontItalic | Glyphs have dominant vertical strokes that are slanted. |
| kFontAllCap | Font contains no lowercase letters; typically used for display purposes, such as for titles or headlines. |
| kFontSmallCap | Font contains both uppercase and lowercase letters. The uppercase letters are similar to those in the regular version of the same typeface family. The glyphs for the lowercase letters have the same shapes as the corresponding uppercase letters, but they are sized and their proportions adjusted so that they have the same size and stroke weight as lowercase glyphs in the same typeface family. |
| kFontForceBold | The kFontForceBold flag determines whether bold glyphs are painted with extra pixels even at very small text sizes. |

## anonymous enum

PdfWordFlags.

PdeWord flags.

**Enumerator:**

| | |
|---|---|
| kWordHyphen | Hyphen. |
| kWordBullet | Bullet. |
| kWordFilling | Fills the space. i.e. Table of content. |

| | |
|---|---|
| kWordNumber | Any number. |
| kWordImage | Image, not text representation. |

### anonymous enum

PdfTextLineFlags.

PdeLine flags.

**Enumerator:**

| | |
|---|---|
| kTextLineNewLine | New line flag |
| kTextLineBullet | Bullet flag |
| kTextLineHyphen | Line ends with hyphen |
| kTextLineIndent | Line has indent |
| kTextLineDropCap | Line starts with drop cap letter |

### enum PdfActionEventType

PdfActionEventType.

Event types.

**Enumerator:**

| | |
|---|---|
| kActionEventAnnotEnter | An action to be performed when the cursor enters the annotation's active area. |
| kActionEventAnnotExit | An action to be performed when the cursor exits the annotation's active area. |
| kActionEventAnnotMouseDown | An action to be performed when the mouse button is pressed inside the annotation's active area. |
| kActionEventAnnotMouseUp | An action to be performed when the mouse button is released inside the annotation's active area. |
| kActionEventAnnotFocus | An action to be performed when the annotation receives the input focus. |
| kActionEventAnnotBlur | An action to be performed when the annotation loses the input focus. |

| | |
|---|---|
| kActionEventAnnotPageOpen | An action to be performed when the page containing the annotation is opened (for example, when the user navigates to it from the next or previous page or by means of a link annotation or outline item). |
| kActionEventAnnotPageClose | An action to be performed when the page containing the annotation is closed (for example, when the user navigates to the next or previous page, or follows a link annotation or outline item). |
| kActionEventAnnotPageVisible | An action to be performed when the page containing the annotation becomes visible in the viewer application's user interface. |
| kActionEventAnnotPageInvisible | An action to be performed when the page containing the annotation is no longer visible in the viewer application's user interface. |
| kActionEventPageOpen | An action to be performed when the page is opened (for example, when the user navigates to it from the next or previous page or by means of a link annotation or outline item). |
| kActionEventPageClose | An action to be performed when the page is closed (for example, when the user navigates to the next or previous page or follows a link annotation or an outline item). |
| kActionEventFieldKeystroke | A JavaScript action to be performed when the user types a keystroke into a text field or combo box or modifies the selection in a scrollable list box. This action can check the keystroke for validity and reject or modify it. |
| kActionEventFieldFormat | A JavaScript action to be performed before the field is formatted to display its current value. This action can modify the field's value before formatting. |
| kActionEventFieldValidate | JavaScript action to be performed when the field's value is changed. This action can check the new value for validity. |
| kActionEventFieldCalculate | A JavaScript action to be performed to recalculate the value of this field when that of another field changes. |
| kActionEventDocWillClose | A JavaScript action to be performed before closing a document. |
| kActionEventDocWillSave | A JavaScript action to be performed before saving a document. |
| kActionEventDocDidSave | A JavaScript action to be performed after saving a document. |
| kActionEventDocWillPrint | A JavaScript action to be performed before printing a document. |
| kActionEventDocDidPrint | A JavaScript action to be performed after printing a document. |

## enum PdfActionType

PdfActionType.

Instead of simply jumping to a destination in the document, an annotation or outline item can specify an action(PDF 1.1) for the viewer application to perform, such as launching an application, playing a sound, or changing an annotation's appearance state.

**Enumerator:**

| | |
|---|---|
| kActionUnknown | Unknown action. |
| kActionGoTo | Go to a destination in the current document. |
| kActionGoToR | ('Go-to remote') Go to a destination in another document. |
| kActionGoToE | ('Go-to embedded') Go to a destination in an embedded file. |
| kActionLaunch | Launch an application, usually to open a file. |
| kActionThread | Begin reading an article thread. |
| kActionURI | Resolve a uniform resource identifier. |
| kActionSound | Play a sound. |
| kActionMovie | Play a movie. |
| kActionHide | Set an annotation's Hidden flag. |
| kActionNamed | Execute an action predefined by the viewer application. |
| kActionSubmitForm | Send data to a uniform resource locator. |
| kActionResetForm | Set fields to their default values. |
| kActionImportData | Import field values from a file. |
| kActionJavaScript | Execute a JavaScript script. |
| kActionSetOCGState | Set the states of optional content groups. |
| kActionRendition | Controls the playing of multimedia content. |
| kActionTrans | Updates the display of a document, using a transition dictionary. |
| kActionGoTo3DView | Set the current view of a 3D annotation. |

## enum PdfAlignment

PdfAlignment.

Alignment.

**Enumerator:**

| | |
|---|---|
| kAlignmentNone | No alignment. |
| kAlignmentLeft | Top alignment. |
| kAlignmentRight | Bottom alignment. |
| kAlignmentJustify | Justify alignment. |
| kAlignmentTop | Left alignment. |
| kAlignmentBottom | Right alignment. |
| kAlignmentCenter | Center alignment. |

## enum PdfAnnotSubtype

Annotation Types.

An annotation associates an object such as a note, sound, or movie with a location on a page of a PDF document, or provides a way to interact with the user by means of the mouse and keyboard. PDF includes a wide variety of standard annotation types.

**Enumerator:**

| | |
|---|---|
| kAnnotUnknown | |
| kAnnotText | Text annotation. |
| kAnnotLink | Link annotation. |
| kAnnotFreeText | Free text annotation. |
| kAnnotLine | Line annotation. |
| kAnnotSquare | Square annotation. |
| kAnnotCircle | Circle annotation. |
| kAnnotPolygon | Polygon annotation. |
| kAnnotPolyLine | Polyline annotation. |

| | |
|---|---|
| kAnnotHighlight | Highlight annotation. |
| kAnnotUnderline | Underline annotation. |
| kAnnotSquiggly | Squiggly-underline annotation. |
| kAnnotStrikeOut | Strikeout annotation. |
| kAnnotStamp | Rubber stamp annotation. |
| kAnnotCaret | Caret annotation. |
| kAnnotInk | Ink annotation. |
| kAnnotPopup | Pop-up annotation. |
| kAnnotFileAttachment | File attachment annotation. |
| kAnnotSound | Sound annotation. |
| kAnnotMovie | Movie annotation. |
| kAnnotWidget | Widget annotation. |
| kAnnotScreen | Screen annotation. |
| kAnnotPrinterMark | Printer's mark annotation. |
| kAnnotTrapNet | Trap network annotation. |
| kAnnotWatermark | Watermark annotation. |
| kAnnot3D | 3D annotation. |
| kAnnotRedact | Redact annotation. |

## enum PdfAuthOption

PdfAuthOption.

Authorization option.

## enum PdfAuthPlatform

PdfAuthPlatform.

Platform type.

## enum PdfBorderStyle

PdfBorderStyle.

Border style.

## enum PdfDestZoomType

PdfDestZoomType.

Font types

**Enumerator:**

| | |
|---|---|
| kPdfZoomXYZ | Display the page with the coordinates (left, top) positioned at the upper-left corner of the window and the contents of the page magnified by the factor zoom. |
| kPdfZoomFitPage | Fit the entire page within the window both horizontally and vertically. |
| kPdfZoomFitHorz | Fit the entire width of the page within the window. |
| kPdfZoomFitVert | Fit the entire height of the page within the window. |
| kPdfZoomFitRect | Fit the rectangle specified by the coordinate. |
| kPdfZoomFitBbox | Fit the page content bounding box entirely within the window both horizontally and vertically. |
| kPdfZoomFitBHorz | Fit the entire width of the page content within the window. |
| kPdfZoomFitBVert | Fit the entire height of the page content within the window. |

## enum PdfDigSigType

PdfDigSigType.

Digital signature type.

**Enumerator:**

| | |
|---|---|
| kDigSigOpenSSL | Use a pfx file to sign a document. |
| kDigSigCert | Use a certificate file to sign a document. |
| kDigSigCustom | Use callbacks to sign a document. |

## enum PdfDigSigValidState

PdfDigSigValidState.

Digital signature validate state.

**Enumerator:**

| | |
|---|---|
| kDigSigBlank | Signature field is unsigned. |
| kDigSigUnknown | Signature field is signed but not validated. |
| kDigSigInvalid | Signature field is signed but failed validation. |
| kDigSigValid | Signature field is signed and valid. |
| kDigSigDoubleChecked | Signature field is signed and double - checked valid. |
| kDigSigValidStateEnumSize | A validity state constant for a signature field resulting from verification. |

## enum PdfElementType

PdfElementType.

Specifies element type.

**Enumerator:**

| | |
|---|---|
| kPdeUnknown | Unknown element. |
| kPdeText | PdeText element. |
| kPdeTextLine | PdeTextLine element. |

| | |
|---|---|
| kPdeWord | PdeWord element. |
| kPdeTextRun | PdeTextRun element. Not exported yet. |
| kPdeImage | PdeImage element. |
| kPdeContainer | PdeContainer element. |
| kPdeSection | PdeSection element. |
| kPdeLine | PdeLine element. |
| kPdeRect | PdeRect element. |
| kPdeTable | PdeTable element. |
| kPdeCell | PdeCell element. |
| kPdeFormField | PdeFormField element. |
| kPdeHeader | PdeHeader element. |
| kPdeFooter | PdeFooter element. |
| kPdeChart | PdeChart element. |

## enum PdfEventType

PdfEventType.

The event type.

**Enumerator:**

| | |
|---|---|
| kEventUnknown | Unknown. |
| kEventDocWillSave | A document will be saved. |
| kEventDocWillClose | A document will be closed. |
| kEventDocDidOpen | A document was opened. |
| kEventDocDidSave | A document has been saved. |
| kEventAnnotWillChange | An annotation will change in the specified way. |
| kEventAnnotDidChange | An annotation changed in the specified way. |

| | |
|---|---|
| kEventPageWillAddAnnot | An annotation will be added to a page. |
| kEventPageWillRemoveAnnot | An annotation will be removed from a page. |
| kEventPageDidAddAnnot | An annotation was added to a page. |
| kEventPageDidRemoveAnnot | An annotation has been removed from a page. |
| kEventageContentsDidChange | The contents of a page have changed. |

## enum PdfFieldType

PdfFieldType.

Field type.

## enum PdfFillType

PdfFillType.

Fill type.

## enum PdfFontCharset

PdfFontCharset.

Supported character sets.

**Enumerator:**

| | |
|---|---|
| kFontAnsiCharset | ANSI Charset. |
| kFontDefaultCharset | System Default Charset. |
| kFontSymbolCharset | Symbol Charset. |
| kFontUnknownCharset | Invalid Charset. |
| kFontMacintoshCharset | Macintosh Charset. |
| kFontShiftJISCharset | Japanese (Shift-JIS) Charset. |
| kFontHangeulCharset | Korean (Hangul, Wansung) Charset. |
| kFontKoreanCharset | Korean(Johab) Charset. |
| kFontGB2312Charset | Simple Chinese (GB2312) Charset. |
| kFontCHineseBig5 | Traditinoal Chinese (Big5) Charset. |

| Charset | |
|---|---|
| kFontGreekCharset | Greek Charset. |
| kFontTurkishCharset | Turkish Charset. |
| kFontVietnameseCharset | Vietnamese Charset. |
| kFontHebrewCharset | Hebrew Charset. |
| kFontArabicCharset | Arabic Charset. |
| kFontArabicTCharset | Arabic Traditional Charset. |
| kFontArabicUCharset | Arabic user Charset. |
| kFontHebrewUCharset | Hebrew user Charset. |
| kFontBalticCharset | Baltic Charset. |
| kFontRussianCharset | Russian Charset. |
| kFontThaiCharset | Thai Charset. |
| kFontEastEuropeCharset | Eastern European Charset. |

## enum PdfFontFormat

PdfFontFormat.

Import/Export font format.

**Enumerator:**

| | |
|---|---|
| kFontFormatTtf | *.ttf |
| kFontFormatWoff | *.woff |

## enum PdfFontType

PdfFontType.

Font types

**Enumerator:**

| | |
|---|---|
| kFontType1 | A font that defines glyph shapes using Type 1 font technology. |
| kFontTrueType | A font based on the TrueType font format. |

| | |
|---|---|
| kFontType3 | A font that defines glyphs with streams of PDF graphics operators. |
| kFontCIDFont | A CIDFont program contains glyph descriptions that are accessed using a CID as the character selector. |

## enum PdfImageFormat

PdfImageFormat.

Import/Export image format.

**Enumerator:**

| | |
|---|---|
| kImageFormatBmp | *.bmp |
| kImageFormatEmf | *.emf |
| kImageFormatPng | *.png |
| kImageFormatJpg | *.jpg |

## enum PdfImageType

PdfImageType.

Type of PdeImage.

**Enumerator:**

| | |
|---|---|
| kImageFigure | PdeImage consists of different elements types. |
| kImageImage | PdeImage consists of images. |
| kImagePath | PdeImage consists of paths. |
| kImageRect | PdeImage is a simple rect. |
| kImageShading | PdeImage is shading. |

## enum PdfLineCap

Line Cap Style.

The line cap style specifies the shape to be used at the ends of open subpaths (and dashes, if any) when they are stroked.

**Enumerator:**

| | |
|---|---|
| kPdfLineCapButt | Butt cap. The stroke is squared off at the endpoint of the path. There is no projection beyond the end of the path. |
| kPdfLineCapRound | Round cap. A semicircular arc with a diameter equal to the line width is drawn around the endpoint and filled in. |
| kPdfLineCapSquare | Projecting square cap. The stroke continues beyond the endpoint of the path for a distance equal to half the line width and is squared off. |

## enum PdfLineJoin

Line Join Style.

The line join style specifies the shape to be used at the corners of paths that are stroked.

**Enumerator:**

| | |
|---|---|
| kPdfLineJoinMiter | Miter join. The outer edges of the strokes for the two segments are extended until they meet at an angle, as in a picture frame. If the segments meet at too sharp an anglea, a bevel join is used instead. |
| kPdfLineJoinRound | Round join. An arc of a circle with a diameter equal to the line width is drawn around the point where the two segments meet, connecting the outer edges of the strokes for the two segments. This pieslice-shaped figure is filled in, producing a rounded corner. |
| kPdfLineJoinBevel | |

## enum PdfPageRangeType

PdfPageRangeType.

Page range type.

## enum PdfRegexType

PdfRegexType.

Regex type.

**Enumerator:**

| | |
|---|---|
| kRegexHyphen | Hyphen pattern. |
| kRegexBullet | Bullet pattern. |
| kRegexBulletLine | Bullet line pattern. |
| kRegexFilling | Filling pattern. |
| kRegexToc | TOC pattern. |
| kRegexNumber | Number pattern. |
| kRegexAllCaps | All capital letters. |
| kRegexFirstCap | First capital letter |
| kRegexCurrency | Number with currency symbol |
| kRegexPercent | Number with % symbol |
| kRegexTerminal | Terminal character with dot |
| kRegexTableCaption | Table caption pattern. |
| kRegexImageCaption | Image caption pattern. |
| kRegexChartCaption | Chart caption pattern. |
| kRegexMapCaption | Map caption pattern. |
| kRegexNoteCaption | Note caption pattern. |
| kRegexNumberedList | Numbered list pattern. |
| kRegexSentences | Sentences in text pattern. |

| | |
|---|---|
| kRegexAlphaNum | Both characters and numbers |

## enum PdfRenderMode

PdfRenderMode.

Element rendering mode.

**Enumerator:**

| | |
|---|---|
| kRenderElemNone | Do not render element. |
| kRenderElemWithChildren | Render element with children. |
| kRenderElemWithoutChildren | Render only element without children. |

## enum PdfRotate

PdfRotate.

Specifies page rotation, in degrees.

**Enumerator:**

| | |
|---|---|
| kRotate0 | 0 degrees. |
| kRotate90 | 90 degrees. |
| kRotate180 | 180 degrees. |
| kRotate270 | 270 degrees. |

## enum PdfSaveFlags

PdfSaveFlags.

Flags for PdfDoc::Save flags parameter.

**Enumerator:**

| | |
|---|---|
| kSaveIncremental | Save only those portions of the document that have changed. |
| kSaveFull | Save the entire document. |

### enum PdfTextAlignment

PdfTextAlignment.

Text alignment.

### enum PdfTextStyle

PdfTextStyle.

Style of PdeText.

**Enumerator:**

| | |
|---|---|
| kTextNormal | Text is a main text. |
| kTextH4 | Text is a header H1..H7. |

# Class Documentation

## _PdfAnnotAppearance Struct Reference

PdfAnnotAppearance.

## Public Attributes

- PdfRGB fill_color
- PdfFillType fill_type
- PdfRGB border_color
- double border_width
- PdfBorderStyle border
- double opacity
- double font_size
- PdfTextAlignment text_align

---

## Detailed Description

PdfAnnotAppearance.
Annot appearance.

---

## Member Data Documentation

### PdfBorderStyle _PdfAnnotAppearance::border

The border style.

### PdfRGB _PdfAnnotAppearance::border_color

The border color.

### double _PdfAnnotAppearance::border_width

The border width in points. If this value is 0, no border is drawn. Default value: 1.

### PdfRGB _PdfAnnotAppearance::fill_color

The fill color.

### PdfFillType _PdfAnnotAppearance::fill_type

The fill type.

### double _PdfAnnotAppearance::font_size

The default appearance font size to be used in formatting the text.

### double _PdfAnnotAppearance::opacity

The constant opacity value to be used in painting the annotation.

### PdfTextAlignment _PdfAnnotAppearance::text_align

The text alignment. Valid only for Widget annotations.

---

# _PdfBookmarkAppearance Struct Reference

PdfBookmarkAppearance.

## Public Attributes

- PdfRGB color
- int italic
- int bold

---

## Detailed Description

PdfBookmarkAppearance.
Bookmark appearance.

---

## Member Data Documentation

### int _PdfBookmarkAppearance::bold

1 - true, 0 - false.

### PdfRGB _PdfBookmarkAppearance::color

The fill color.

### int _PdfBookmarkAppearance::italic

1 - true, 0 - false.

---

# _PdfColorState Struct Reference

PdfColorState.

## Public Attributes

- PdfFillType fill_type
- PdfFillType stroke_type
- PdfRGB fill_color
- PdfRGB stroke_color
- int fill_opacity
- int stroke_opacity

---

## Detailed Description

PdfColorState.
Color state.

---

## Member Data Documentation

### PdfRGB _PdfColorState::fill_color

Fill color.

### int _PdfColorState::fill_opacity

Fill opacity from 0 to 255.

### PdfFillType _PdfColorState::fill_type

Fill type.

### PdfRGB _PdfColorState::stroke_color

Stroke color.

### int _PdfColorState::stroke_opacity

Strok opacity from 0 to 255.

### PdfFillType _PdfColorState::stroke_type

Stroke type.

---

# _PdfDevPoint Struct Reference

PdfDevPoint.

## Public Attributes

- int x
- int y

---

## Detailed Description

PdfDevPoint.
A data structure representing a point in the page view's device space.

---

## Member Data Documentation

### int _PdfDevPoint::x

x coordinate in device space.

### int _PdfDevPoint::y

y coordinate in device space.

---

# _PdfDevQuad Struct Reference

PdfDevQuad.

## Public Attributes

- PdfDevPoint tl
- PdfDevPoint tr
- PdfDevPoint bl
- PdfDevPoint br

---

## Detailed Description

PdfDevQuad.
A quadrilateral represented by four points (one at each corner) in device space coordinates. A quadrilateral differs from a rectangle in that a rectangle must always have horizontal and vertical sides, and opposite sides must be parallel.

---

## Member Data Documentation

### PdfDevPoint _PdfDevQuad::bl

Bottom left point.

### PdfDevPoint _PdfDevQuad::br

Bottom right point.

### PdfDevPoint _PdfDevQuad::tl

Top left point.

### PdfDevPoint _PdfDevQuad::tr

Top right point.

# _PdfDevRect Struct Reference

PdfDevRect.

## Detailed Description

PdfDevRect.
A data structure representing a rectangle in a device space.

# _PdfEventParams Struct Reference

PdfEventParams.

## Public Attributes

- PdfEventType type
- PdfDoc * doc
- PdfPage * page
- PdfAnnot * annot

## Detailed Description

PdfEventParams.
Callback structure.

## Member Data Documentation

### PdfAnnot* _PdfEventParams::annot

Event annot or null.

### PdfDoc* _PdfEventParams::doc

Event document or null.

### PdfPage* _PdfEventParams::page

Event page or null.

### PdfEventType _PdfEventParams::type

Event type.

# _PdfFlattenAnnotsParams Struct Reference

PdfFlattenAnnotsParams.

## Public Attributes

- PdfPageRangeParams page_range
- int flags

## Detailed Description

PdfFlattenAnnotsParams.
Flatten annotations params.

## Member Data Documentation

### int _PdfFlattenAnnotsParams::flags

Currently unused. Must be set to zero.

### PdfPageRangeParams _PdfFlattenAnnotsParams::page_range

The page range of the document to which flatten annots should apply.

# _PdfFontState Struct Reference

PdfFontState.

## Public Attributes

- PdfFontType type
- PdfFontFlags flags
- PdfRect bbox
- int ascent
- int descent
- int italic
- int bold
- int fixed_width
- int vertical
- int embedded
- int height

## Detailed Description

PdfFontState.
Font state.

---

## Member Data Documentation

### int _PdfFontState::ascent

Ascent.

### PdfRect _PdfFontState::bbox

Font bounding box.

### int _PdfFontState::bold

1 - true, 0 - false.

### int _PdfFontState::descent

Descent.

### int _PdfFontState::embedded

1 - true, 0 - false.

### int _PdfFontState::fixed_width

1 - true, 0 - false.

### PdfFontFlags _PdfFontState::flags

Font flags.

### int _PdfFontState::height

Font height.

### int _PdfFontState::italic

Italic angle, 0 if horizontal.

### PdfFontType _PdfFontState::type

Font type.

### int _PdfFontState::vertical

1 - true, 0 - false.

# _PdfGraphicState Struct Reference

PdfGraphicState.

## Public Attributes

- PdfColorState color_state
- double line_width
- double miter_limit
- PdfLineCap line_cap
- PdfLineJoin line_join

---

## Detailed Description

PdfGraphicState.
Graphics state.

---

## Member Data Documentation

### PdfColorState _PdfGraphicState::color_state

Fill and stroke color properties in PdfColorState.

### PdfLineCap _PdfGraphicState::line_cap

The line cap style.

### PdfLineJoin _PdfGraphicState::line_join

The line join style.

### double _PdfGraphicState::line_width

Line width in user space coordinates (PDF).

### double _PdfGraphicState::miter_limit

The miter limit.

---

# _PdfMatrix Struct Reference

PdfMatrix.

---

## Detailed Description

PdfMatrix.
Matrix containing six double numbers.

---

# _PdfPageMapParams Struct Reference

PdfPageMapParams.

## Public Attributes

- PdfRect clip_rect
- PdfPageMapFlags flags

---

## Detailed Description

PdfPageMapParams.
PageMap parameters.

---

## Member Data Documentation

### PdfRect _PdfPageMapParams::clip_rect

Clipping rectangle in user space coordinates.

### PdfPageMapFlags _PdfPageMapParams::flags

Default kPageMapNone.

---

# _PdfPageRangeParams Struct Reference

PdfPageRangeParams.

---

## Detailed Description

PdfPageRangeParams.
Specifies a range of pages in a document. Page numbers begin with 0.

---

# _PdfPageRenderParams Struct Reference

PdfPageRenderParams.

## Public Attributes

- PdfRect clip_rect
- PdfRenderFlags render_flags

---

## Detailed Description

PdfPageRenderParams.
Handles page rendering.

---

## Member Data Documentation

### PdfRect _PdfPageRenderParams::clip_rect

Clipping rectangle in device space coordinates.

### PdfRenderFlags _PdfPageRenderParams::render_flags

PdfRenderFlags

---

# _PdfPoint Struct Reference

PdfPoint.

## Public Attributes

- double x
- double y

---

## Detailed Description

PdfPoint.
A data structure representing a point in the user space. To avoid the device-dependent effects of specifying objects in device space, PDF defines a device-independent coordinate system that always bears the same relationship to the current page, regardless of the output device on which printing or displaying occurs. This device-independent coordinate system is called user space. The origin of the user space(0, 0) represents the bottom-left corner of the PDF page. PDF files specify 72 points to 1 physical inch.

---

## Member Data Documentation

### double _PdfPoint::x

x coordinate in user space.

### double _PdfPoint::y

y coordinate in user space.

---

# _PdfQuad Struct Reference

PdfQuad.

## Public Attributes

- PdfPoint tl
- PdfPoint tr
- PdfPoint bl
- PdfPoint br

---

## Detailed Description

PdfQuad.
A quadrilateral represented by four points (one at each corner) in user space coordinates. A quadrilateral differs from a rectangle in that a rectangle must always have horizontal and vertical sides, and opposite sides must be parallel.

---

## Member Data Documentation

### PdfPoint _PdfQuad::bl

Bottom left point.

### PdfPoint _PdfQuad::br

Bottom right point.

### PdfPoint _PdfQuad::tl

Top left point.

### PdfPoint _PdfQuad::tr

Top right point.

# _PdfRect Struct Reference

PdfRect.

## Detailed Description

PdfRect.
A data structure representing a rectangle in a user space (a quadrilateral having only horizontal and vertical sides) The coordinate system is defined so that (0,0) is at the top, x increases to the right, and y increases down. A PdfRect is defined so that its top is above its bottom, but this means that 0 < top < bottom.

# _PdfRGB Struct Reference

PdfRGB.

## Public Attributes

- int r
- int g
- int b

## Detailed Description

PdfRGB.
RGB color representation.

## Member Data Documentation

### int _PdfRGB::b

Blue component from 0 to 255.

### int _PdfRGB::g

Green component from 0 to 255.

### int _PdfRGB::r

Red component from 0 to 255.

# _PdfTextState Struct Reference

PdfTextState.

## Public Attributes

- PdfColorState color_state
- PdfFont * font
- double font_size
- double char_spacing
- double word_spacing
- PdfTextStateFlag flags

---

## Detailed Description

PdfTextState.
PdfTextState structure containing the text state information.

---

## Member Data Documentation

### double _PdfTextState::char_spacing

Character spacing.

### PdfColorState _PdfTextState::color_state

Fill and stroke color properties.

### PdfTextStateFlag _PdfTextState::flags

Test state flag.

### PdfFont* _PdfTextState::font

Text font.

### double _PdfTextState::font_size

Text font size.

### double _PdfTextState::word_spacing

Word spacing.

---

# _PdfWatermarkParams Struct Reference

PdfWatermarkParams.

## Public Attributes

- PdfPageRangeParams page_range
- int order_top
- PdfAlignment h_align
- PdfAlignment v_align
- int percentage_vals
- double h_value
- double v_value
- double scale
- double rotation
- double opacity

---

## Detailed Description

PdfWatermarkParams.
Page rendering flags.

---

## Member Data Documentation

### PdfAlignment _PdfWatermarkParams::h_align

The horizontal alignment to be used when adding the watermark to a page.

### double _PdfWatermarkParams::h_value

The horizontal offset value to be used when adding the watermark on a page. If percentageVals is 1, this value is a percentage of the page width, with 1.0 meaning 100 % . If percentageVals is 0, this value is in user units.

### double _PdfWatermarkParams::opacity

The opacity to be used when adding the watermark, with 0.0 meaning fully transparent and 1.0 meaning fully opaque.

### int _PdfWatermarkParams::order_top

An integer specifying where in the page z-order the watermark should be added. If it is 1, the watermark is added to the front of the page; if it is 0, it is added as a background.

### PdfPageRangeParams _PdfWatermarkParams::page_range

The page range of the document to which the watermark should be added.

### int _PdfWatermarkParams::percentage_vals

An integer specifying the units of horizValue and vertValue. If it is 1, horizValue and vertValue represent percentages of the page dimensions. If it is 0, horizValue and vertValue are in user units.

### double _PdfWatermarkParams::rotation

The counter-clockwise rotation, in degrees, to be used when adding the watermark.

### double _PdfWatermarkParams::scale

The scale factor to be used when adding the watermark, with 1.0 meaning 100%.

### PdfAlignment _PdfWatermarkParams::v_align

The vertical alignment to be used when adding the watermark to a page.

### double _PdfWatermarkParams::v_value

The vertical offset value to be used when adding the watermark on a page. If percentageVals is 1, this value is a percentage of the page height, with 1.0 meaning 100 % . If percentageVals is 0, this value is in user units.

---

# _PdfWhitespaceParams Struct Reference

PdfWhitespaceParams.

## Public Attributes

- double width
- double height

---

## Detailed Description

PdfWhitespaceParams.
Whitespace Cover parameters.

---

## Member Data Documentation

### double _PdfWhitespaceParams::height

Minimum height of whitespace area on the page.

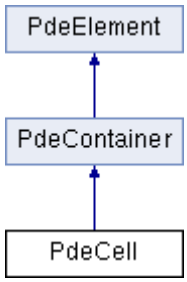
### double _PdfWhitespaceParams::width

Minimum with of whitespace area on the page.

---

# PdeCell Struct Reference

PdeCell class.
Inheritance diagram for PdeCell:




## Public Member Functions

- int GetRowSpan ()=0
- int GetColSpan ()=0
  *Returns the number of columns spanned by the cell.*
- bool HasBorderGraphicState (int index)=0
  *Returns true if the border with requested index has a stoke border.*

---

## Detailed Description

PdeCell class.
A PdeCell class represents a single cell of PdeTable element.

---

## Member Function Documentation

### int PdeCell::GetColSpan () [pure virtual]

Returns the number of columns spanned by the cell.

**Returns:**

Cell colspan, 0 if the cell is merged with another cell.

**See also:**

PdeTable::GetCell

### int PdeCell::GetRowSpan () [pure virtual]

Returns the number of rows spanned by the cell. The default value is 0, which indicates that this cell is merged. NOTE: Ignore such cells in further processing.

**Returns:**

Cell rowspan, 0 if the cell is merged with another cell.

**See also:**

PdeTable::GetCell

### bool PdeCell::HasBorderGraphicState (int *index*) [pure virtual]

Returns true if the border with requested index has a stoke border.

**Parameters:**

| | |
|---|---|
| *index* | The border index from 0(top) to 3(left). |

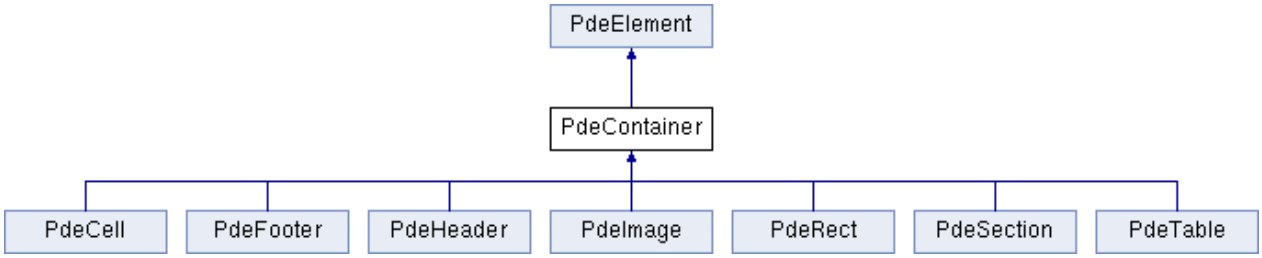
**Returns:**

True if the stroke border exist, false otherwise.

---

# PdeContainer Struct Reference

PdeContainer class.
Inheritance diagram for PdeContainer:




## Additional Inherited Members

---

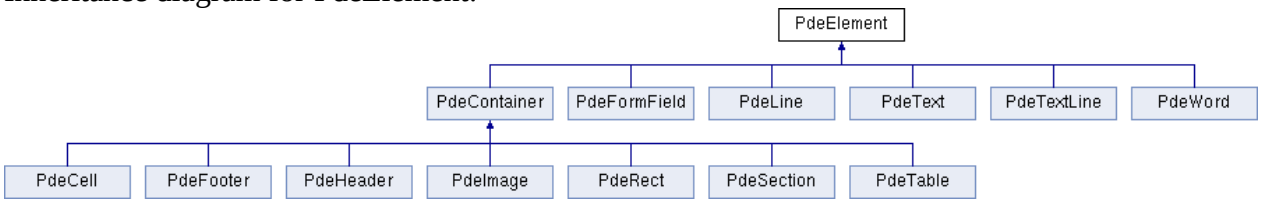
## Detailed Description

PdeContainer class.
A PdeContainer class is an in-memory representation of objects on a page. A group of PdeElements on a page in a PDF file. In the PDF file, containers are delimited by Marked Content pairs. Every PDEContainer has a Marked Content tag associated with it.

---

# PdeElement Struct Reference

PdeElement class.
Inheritance diagram for PdeElement:




## Public Member Functions

- PdfElementType GetType ()=0
  *Gets the type of an element.*
- void GetBBox (1 PdfRect *bbox)=0
- int GetId ()=0
  *Gets the id of an element. The id is unique number on a page.*
- void GetGraphicState (1 PdfGraphicState *g_state)=0
  *Gets the graphics state information for an element.*
- int GetNumChildren ()=0
  *Gets the number of child elements in an element object.*
- PdeElement * GetChild (int index)=0
  *Gets the requested child element from an element.*
- PdfAlignment GetAlignment ()=0
  *Gets the element alignment within the content column.*
- double GetAngle ()=0
  *Gets the element angle.*
- bool Save (const wchar_t *path, PdfImageFormat format, PdfMatrix *matrix)=0

*Saves the element into an image file.*

- PdeElement * GetBackground ()=0
  *Gets the background element. Iterate it's children to get background images.*
- void SetRenderMode (PdfRenderMode mode)=0
  *Set render mode of the element. This mode is used, when element is saved.*

---

# Detailed Description

PdeElement class.
PdeElement is the base class for elements of a pagemap (PdePageMap). The general PdeElement methods allow you to get and set general element properties. PdeElement is an abstract superclass from which the PdeText, PdeTextLine, PdeWord, PdeTable, PdeImage, PdeContainer, PdeLine, PdeRect, PdeTableCell, PdeFormField, PdeHeader, PdeFooter classes are derived. Use PdeElement::GetType method to find the type of an element.

---

# Member Function Documentation

## PdfAlignment PdeElement::GetAlignment () [pure virtual]

Gets the element alignment within the content column.

**Returns:**
Requested element alignment.

## double PdeElement::GetAngle () [pure virtual]

Gets the element angle.

**Returns:**
Requested element angle.

## PdeElement* PdeElement::GetBackground () [pure virtual]

Gets the background element. Iterate it's children to get background images.

**Returns:**
The background element.

## void PdeElement::GetBBox (1 PdfRect * *bbox*) [pure virtual]

Gets the bounding box for an element in user space coordinates. To avoid the device-dependent effects of specifying objects in device space, PDF defines a device-independent coordinate system that always bears the same relationship to the current page, regardless of the output device on which printing or displaying occurs. This

device-independent coordinate system is called user space. The origin of the user space(0, 0) represents the bottom-left corner of the PDF page. PDF files specify 72 points to 1 physical inch. The returned bounding box is guaranteed to encompass the element.

**Parameters:**

| | |
|---|---|
| *bbox* | (filled by the method) A pointer to a PdfRect structure specifying the bounding box of an element, specified in user space coordinates. |

## PdeElement* PdeElement::GetChild (int *index*) [pure virtual]

Gets the requested child element from an element.

**Parameters:**

| | |
|---|---|
| *index* | The index of element to obtain. |

**Returns:**

Requested element.

**See also:**

PdeElement::GetNumChildren

Implemented in PdeSection.

## void PdeElement::GetGraphicState (1 PdfGraphicState * *g_state*) [pure virtual]

Gets the graphics state information for an element.

**Parameters:**

| | |
|---|---|
| *g_state* | (filled by the method) Pointer to a PdfGraphicState structure that contains graphics state information for pdeElement. |

### int PdeElement::GetId () [pure virtual]

Gets the id of an element. The id is unique number on a page.

**Returns:**

Unique number for the element.

### int PdeElement::GetNumChildren () [pure virtual]

Gets the number of child elements in an element object.

**Returns:**

The number of children.

**See also:**

PdeElement::GetChild
Implemented in PdeSection.

### PdfElementType PdeElement::GetType () [pure virtual]

Gets the type of an element.

**Returns:**

Element type, kElementUnknown otherwise.

### bool PdeElement::Save (const wchar_t * *path*, PdfImageFormat *format*, PdfMatrix * *matrix*) [pure virtual]

Saves the element into an image file.

**Parameters:**

| | |
|---|---|
| *path* | Path where to save image data in requested format. |
| *format* | PdfImageFormat. |
| *matrix* | Element transformation matrix. |

**Returns:**

true if succeeded, false otherwise.

### void PdeElement::SetRenderMode (PdfRenderMode *mode*) [pure virtual]

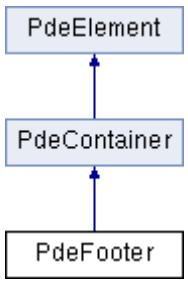
Set render mode of the element. This mode is used, when element is saved.

**Parameters:**

| | |
|---|---|
| *mode* | Render mode. |

# PdeFooter Struct Reference

PdeFooter class.
Inheritance diagram for PdeFooter:



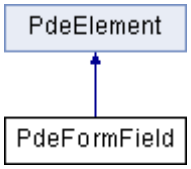

## Additional Inherited Members

## Detailed Description

PdeFooter class.
A PdeFooter class is a page content element that represents a page footer

# PdeFormField Struct Reference

PdeFormField class.
Inheritance diagram for PdeFormField:




## Public Member Functions

- PdfWidgetAnnot * GetWidgetAnnot ()=0
  *Gets the annotation object from a form field element.*

## Detailed Description

PdeFormField class.
A PdeFormField class is a page content element containing an interactive form.

## Member Function Documentation

### PdfWidgetAnnot* PdeFormField::GetWidgetAnnot () [pure virtual]

Gets the annotation object from a form field element.

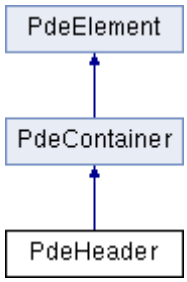
**Returns:**

PdfWidgetAnnot object.

---

# PdeHeader Struct Reference

PdeHeader class.
Inheritance diagram for PdeHeader:




## Additional Inherited Members

---

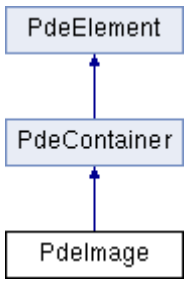
## Detailed Description

PdeHeader class.
A PdeHeader class is a page content element that represents a page header

---

# PdeImage Struct Reference

PdeImage class.
Inheritance diagram for PdeImage:



## Public Member Functions

- PdfImageType GetImageType ()=0
  *Gets the type of an image.*

---

## Detailed Description

PdeImage class.
A PdfImage class is a page content element containing an image graphics.

---

## Member Function Documentation

### PdfImageType PdeImage::GetImageType () [pure virtual]

Gets the type of an image.

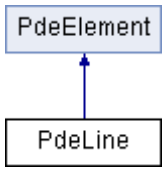
**Returns:**

PdfImageType type.

---

# PdeLine Struct Reference

PdeLine class.
Inheritance diagram for PdeLine:




## Additional Inherited Members

---

## Detailed Description

PdeLine class.
A PdeLine class is a pagemap element containing a vector graphics in form of a line. It contains only horizontal and vertical lines.

---

# PdePageMap Struct Reference

PdePageMap class.

## Public Member Functions

- PdeElement * GetElement ()=0
- bool GetWhitespace (PdfWhitespaceParams *params, int index, 1 PdfRect *bbox)=0
  *Searches for whitespaces at the page. They are sorted from biggest to smallest.*
- void GetBBox (1 PdfRect *bbox)=0

---

## Detailed Description

PdePageMap class.
The PdePageMap object is a storage of all PdeElements whose were recognized on the page. A PdePageMap may be obtained from an existing page with the PdfPage::GetPageMap method. Once your application has the page's PdePageMap, it can get each logical element with GetElement method.

---

## Member Function Documentation

### void PdePageMap::GetBBox (1 PdfRect * *bbox*) [pure virtual]

Gets the bounding box for a pagemap. The bounding box is the rectangle that encloses all text, graphics, and images on the page.

**Parameters:**

| | |
|---|---|
| *bbox* | (filled by the method) A PdfRect specifying the page's box. |

**See also:**

PdePageMap::GetWhitespace

### PdeElement* PdePageMap::GetElement () [pure virtual]

Gets the requested element from a pagemap. You should never depend on these objects lasting the lifetime of the pagemap. You should extract the information you need from he object immediately and refer to it no further in your code. NOTE: This method does not copy the element, so do not destroy it.

**Parameters:**

| | |
|---|---|
| *index* | Index of element to obtain. |

**Returns:**

The requested element.

**See also:**

PdePageMap::GetNumElements

### bool PdePageMap::GetWhitespace (PdfWhitespaceParams * *params*, int *index*, 1 PdfRect * *bbox*) [pure virtual]

Searches for whitespaces at the page. They are sorted from biggest to smallest.

**Parameters:**

| | |
|---|---|
| *params* | Whitespace parameters that specify which whitespace should be obtained. |
| *index* | Index of whitespace to obtain. Set to zero for the first call. Update the index |

| | |
|---|---|
| | with each consecutive call of the method while result is true. |
| *bbox* | (filled by the method) A PdfRect specifying requested whitespace. |

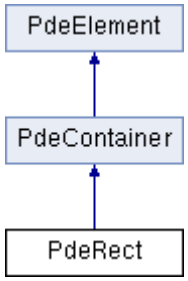
**Returns:**

This method returns true if whitespace with requested params exists, otherwise it returns false.

---

# PdeRect Struct Reference

PdeRect class.
Inheritance diagram for PdeRect:




## Additional Inherited Members

---

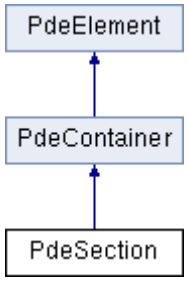
## Detailed Description

PdeRect class.
A PdeRect class is a page content element containing a vector graphics with rectangular shape.

---

# PdeSection Struct Reference

PdeSection class.
Inheritance diagram for PdeSection:




## Public Member Functions

- int GetNumChildren ()=0

*Gets the number of child elements in an element object.*

- PdeElement * GetChild (int index)=0
  *Gets the requested child element from an element.*

---

## Detailed Description

PdeSection class.
A PdeSection class is an in-memory representation of objects on a page which form a contextual object reflecting logical order on the page. A group of PdeElements on a page in a PDF file. In the PDF file, containers are delimited by Marked Content pairs. Every PdeSection has a Marked Content tag associated with it.

---

## Member Function Documentation

### PdeElement* PdeSection::GetChild (int *index*) [pure virtual]

Gets the requested child element from an element.

**Parameters:**

| | |
|---|---|
| *index* | The index of element to obtain. |

**Returns:**

Requested element.

**See also:**

PdeElement::GetNumChildren
Implements PdeElement.

### int PdeSection::GetNumChildren () [pure virtual]

Gets the number of child elements in an element object.

**Returns:**

The number of children.

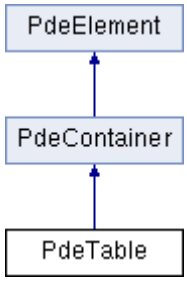
**See also:**

PdeElement::GetChild
Implements PdeElement.

---

# PdeTable Struct Reference

PdeTable class.
Inheritance diagram for PdeTable:




## Public Member Functions

- int GetNumRows ()=0
  *Returns the number of table rows.*
- int GetNumCols ()=0
  *Returns the number of table columns.*
- PdeCell * GetCell (int row, int col)=0
  *Returns the cell object of table columns.*

---

## Detailed Description

PdeTable class.
PdeTable class represents tables extracted from PDF document. PdePageMap recognizes and decomposes tables in PDF documents and store the extracted data in a PdeTable class for easier reuse.

---

## Member Function Documentation

### PdeCell* PdeTable::GetCell (int *row*, int *col*) [pure virtual]

Returns the cell object of table columns.

**Parameters:**

| | |
|---|---|
| *row* | The row number of the requested cell. |
| *col* | The col number of the requested cell. |

**Returns:**

A requested cell.

**See also:**

PdeTable::PdeTableGetNumRows, PdeTable::PdeTableGetNumCols

### int PdeTable::GetNumCols () [pure virtual]

Returns the number of table columns.

**Returns:**

A number of table columns.

**See also:**

PdeTable::PdeTableGetNumRows, PdeTable::PdeTableGetCell

### int PdeTable::GetNumRows () [pure virtual]

Returns the number of table rows.

**Returns:**

A number of table rows.

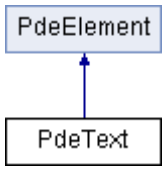
**See also:**

PdeTable::PdeTableGetNumCols, PdeTable::PdeTableGetCell

---

# PdeText Struct Reference

PdeText class.
Inheritance diagram for PdeText:




## Public Member Functions

- int GetText (1 wchar_t *buffer, int len)=0
  *Get the text of the text element.*
- bool HasTextState ()=0
- void GetTextState (1 PdfTextState *text_state)=0
  *Get the text state of the text element.*
- int GetNumTextLines ()=0
  *Get the number of lines of text in text element.*
- PdeTextLine * GetTextLine (int index)=0

*Get the text line element from the text element.*

- int GetNumWords ()=0
  *Get the number of words of text in text element.*
- PdeWord * GetWord (int index)=0
  *Get the word from the text element.*
- double GetLineSpacing ()=0
  *Get the text element line spacing.*
- double GetIndent ()=0
  *Get the text element indent.*
- PdfTextStyle GetTextStyle ()=0
  *Get the text element type.*

---

# Detailed Description

PdeText class.
A PdeText object represents a group of text line objects which forms a paragraph in a PDF file.

---

# Member Function Documentation

### double PdeText::GetIndent () [pure virtual]

Get the text element indent.

**Returns:**

The text element indent.

### double PdeText::GetLineSpacing () [pure virtual]

Get the text element line spacing.

**Returns:**

The text element line spacing.

### int PdeText::GetNumTextLines () [pure virtual]

Get the number of lines of text in text element.

**Returns:**

Number of lines.

**See also:**

PdeText::GetTextLine

### int PdeText::GetNumWords () [pure virtual]

Get the number of words of text in text element.

**Returns:**

Number of words.

**See also:**

PdeText::GetWord

### int PdeText::GetText (1 wchar_t * *buffer*, int *len*) [pure virtual]

Get the text of the text element.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

**See also:**

PdeTextLine::GetText, PdeWord::GetText

## PdeTextLine* PdeText::GetTextLine (int *index*) [pure virtual]

Get the text line element from the text element.

**Parameters:**

| | |
|---|---|
| *index* | The index of line to get. |

**Returns:**

PdeTextLine element.

**See also:**

PdeText::GetNumTextLines

## void PdeText::GetTextState (1 PdfTextState * *text_state*) [pure virtual]

Get the text state of the text element.

**Parameters:**

| | |
|---|---|
| *text_state* | (filled by method) A pointer to a PdfTextState structure specifying the text state of a first text character. |

**See also:**

PdeText::HasTextState

## PdfTextStyle PdeText::GetTextStyle () [pure virtual]

Get the text element type.

**Returns:**

The text element type.

## PdeWord* PdeText::GetWord (int *index*) [pure virtual]

Get the word from the text element.

**Parameters:**

| | |
|---|---|
| *index* | The index of word to get. |

**Returns:**

PdeWord element.

**See also:**

PdeText::GetNumWords

### bool PdeText::HasTextState () [pure virtual]

Checks whether the text state can be obtained. It means that an each text line of the text element has the same text state.

**Returns:**

true if the text state is the same for the whole text, false otherwise. In that case use PdeTextLine::GetTextState to obtain correct values.

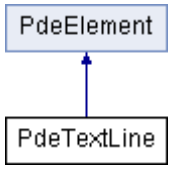
**See also:**

PdeText::GetTextState, PdeTextLine::GetTextState

---

# PdeTextLine Struct Reference

PdeTextLine class.
Inheritance diagram for PdeTextLine:




## Public Member Functions

- int GetText (1 wchar_t *buffer, int len)=0
  *Get the text of the text line element.*
- bool HasTextState ()=0
- void GetTextState (1 PdfTextState *text_state)=0
  *Get the text state of the text line element.*
- int GetNumWords ()=0
  *Get the number of word elements in the text line element.*
- PdeWord * GetWord (int index)=0
  *Get the word element from the text line element.*
- int GetFlags ()=0
  *Get the text line flags like bullet, list etc.*

---

## Detailed Description

PdeTextLine class.
A PdeTextLine object represents a line of text in a PDF file. Each text line contains an array of PdeWord objects with in one or more styles.

---

# Member Function Documentation

## int PdeTextLine::GetFlags () [pure virtual]

Get the text line flags like bullet, list etc.

**Returns:**

The combination of PdfTextLineFlags.

## int PdeTextLine::GetNumWords () [pure virtual]

Get the number of word elements in the text line element.

**Returns:**

Number of word elements within the text line element.

## int PdeTextLine::GetText (1 wchar_t * *buffer*, int *len*) [pure virtual]

Get the text of the text line element.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

**See also:**

PdeWord::GetText, PdeText::GetText

## void PdeTextLine::GetTextState (1 PdfTextState * *text_state*) [pure virtual]

Get the text state of the text line element.

**Parameters:**

| | |
|---|---|
| *text_state* | (filled by method) A pointer to a PdfTextState structure specifying the text state of a first line character. |

**See also:**

PdeTextLine::HasTextState

### PdeWord* PdeTextLine::GetWord (int *index*) [pure virtual]

Get the word element from the text line element.

**Parameters:**

| | |
|---|---|
| *index* | The index of word element to obtain. |

**Returns:**

PdeWord element.

### bool PdeTextLine::HasTextState () [pure virtual]

Checks whether the text state can be obtained. It means that an each word of the text line has the same text state.

**Returns:**

true if the text state is the same for the whole line, false otherwise. In that case use PdeWord::GetTextState to obtain correct values.

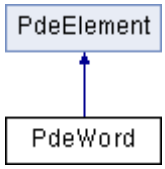
**See also:**

PdeTextLine::GetTextState, PdeWord::GetTextState

---

# PdeWord Struct Reference

PdeWord class.
Inheritance diagram for PdeWord:




## Public Member Functions

- int GetText (1 wchar_t *buffer, int len)=0
  *Get the text of the word element.*
- bool HasTextState ()=0
- void GetTextState (1 PdfTextState *text_state)=0
  *Get the text state of the word element.*
- int GetNumChars ()=0
  *Get the number of characters in word element.*
- int GetCharText (int index, 1 wchar_t *buffer, int len)=0
  *Get the text of one character of the word.*
- void GetCharTextState (int index, 1 PdfTextState *text_state)=0

*Get the text state information of the word character.*

- void GetCharBBox (int index, 1 PdfRect *bbox)=0
  *Gets the bounding box of one character in user space coordinates.*
- int GetFlags ()=0
  *Get the word flags like filling, etc.*

---

# Detailed Description

PdeWord class.
A PdeWord object represents a word in a PDF file. Each word contains a sequence of characters in one or more styles.

---

# Member Function Documentation

## void PdeWord::GetCharBBox (int *index*, 1 PdfRect * *bbox*) [pure virtual]

Gets the bounding box of one character in user space coordinates.

**Parameters:**

| | |
|---|---|
| *index* | The index of a character. |
| *bbox* | (filled by the method) A pointer to a PdfRect structure specifying the bounding box of a character, specified in user space coordinates. |

## int PdeWord::GetCharText (int *index*, 1 wchar_t * *buffer*, int *len*) [pure virtual]

Get the text of one character of the word.

**Parameters:**

| | |
|---|---|
| *index* | The index of a character. |
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

**See also:**

PdeWord::GetNumChars

## void PdeWord::GetCharTextState (int *index*, 1 PdfTextState * *text_state*) [pure virtual]

Get the text state information of the word character.

**Parameters:**

| | |
|---|---|
| *index* | The index of a character. |
| *text_state* | (filled by method) A pointer to a PdfTextState structure specifying the text state of a character. |

## int PdeWord::GetFlags () [pure virtual]

Get the word flags like filling, etc.

**Returns:**

The combination of PdfWordFlags.

## int PdeWord::GetNumChars () [pure virtual]

Get the number of characters in word element.

**Returns:**

Number of characters.

## int PdeWord::GetText (1 wchar_t * *buffer*, int *len*) [pure virtual]

Get the text of the word element.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

**See also:**

PdeTextLine::GetText, PdeText::GetText

### void PdeWord::GetTextState (1 PdfTextState * *text_state*) [pure virtual]

Get the text state of the word element.

**Parameters:**

| | |
|---|---|
| *text_state* | (filled by method) A pointer to a PdfTextState structure specifying the text state of a word first character. |

**See also:**

PdeWord::HasTextState

### bool PdeWord::HasTextState () [pure virtual]

Checks whether the text state can be obtained. It means that an each character of the word has the same text state.

**Returns:**

true if the text state is the same for the whole word, false otherwise. In that case use PdeWord::GetCharTextState to obtain correct values.

**See also:**

PdeWord::GetTextState, PdeWord::GetCharTextState

---

# PdfAction Struct Reference

PdfAction class.

## Public Member Functions

- PdfActionType GetSubtype ()=0
  *Gets an action's subtype.*
- int GetJavaScript (1 wchar_t *buffer, int len)=0
  *Gets the string buffer from the JavaScript action.*
- int GetURI (1 wchar_t *buffer, int len)=0

---

## Detailed Description

PdfAction class.
The PdfAction are tasks that pdf viewer performs when a user clicks on a link or a bookmark.

---

## Member Function Documentation

### int PdfAction::GetJavaScript (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the string buffer from the JavaScript action.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) if the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

### PdfActionType PdfAction::GetSubtype () [pure virtual]

Gets an action's subtype.

**Returns:**

The PdfActionType corresponding to the action's subtype.

### int PdfAction::GetURI (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the string buffer from the URI action. A uniform resource identifier (URI) is a string that identifies a resource on the Internet ' typically a file that is the destination of a hypertext link.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) if the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

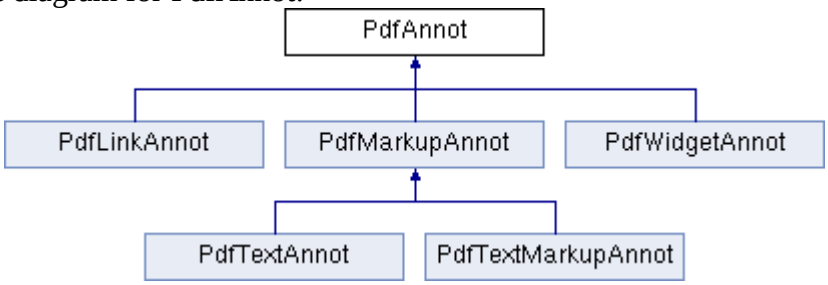
Number of characters written into buffer of required length.

---

# PdfAnnot Struct Reference

PdfAnnot class.

Inheritance diagram for PdfAnnot:




# Public Member Functions

- PdfAnnotSubtype GetSubtype ()=0
  *Gets an annotation's subtype.*
- PdfAnnotFlags GetFlags ()=0
  *Gets an annotation's flags.*
- void GetAppearance (1 PdfAnnotAppearance *appearance)=0
  *Gets an annotation's appearance.*
- void GetBBox (1 PdfRect *bbox)=0
  *Gets the annotation bounding box.*
- bool PointInAnnot (PdfPoint *point)=0
- bool RectInAnnot (PdfRect *rect)=0

---

# Detailed Description

PdfAnnot class.
An annotation associates an object such as a note, sound, or movie with a location on a page of a PDF document, or provides a way to interact with the user by means of the mouse and keyboard.

---

# Member Function Documentation

### void PdfAnnot::GetAppearance (1 PdfAnnotAppearance * *appearance*) [pure virtual]

Gets an annotation's appearance.

**Parameters:**

| | |
|---|---|
| *appearance* | (filled by method) Pointer to a PdfAnnotAppearance structure. |

### void PdfAnnot::GetBBox (1 PdfRect * *bbox*) [pure virtual]

Gets the annotation bounding box.

**Parameters:**

| | |
|---|---|
| *bbox* | (filled by the method) Pointer to PdfRect structure to fill. |

### PdfAnnotFlags PdfAnnot::GetFlags () [pure virtual]

Gets an annotation's flags.

**Returns:**

The flags, or 0 if the annotation does not have a flags key.

### PdfAnnotSubtype PdfAnnot::GetSubtype () [pure virtual]

Gets an annotation's subtype.

**Returns:**

The PdfAnnotSubtype corresponding to the annot's subtype.

### bool PdfAnnot::PointInAnnot (PdfPoint * *point*) [pure virtual]

Tests whether the specified point is within an annotation. If an annotation consists of more quads, it tests each quad individually.

**Parameters:**

| | |
|---|---|
| *point* | The point to test. |

**Returns:**

true if the point is within an annotation, false otherwise.

### bool PdfAnnot::RectInAnnot (PdfRect * *rect*) [pure virtual]

Tests whether the specified rect is within an annotation. If an annotation consists of more quads, it tests each quad individually.

**Parameters:**

| | |
|---|---|
| *rect* | The rectangle to test. |

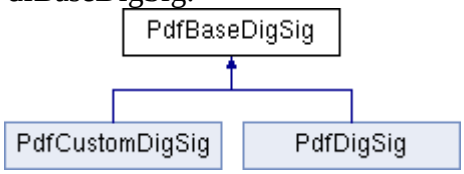
**Returns:**

true if the the whole rectangle is within an annotation, false otherwise.

---

# PdfBaseDigSig Struct Reference

PdfBaseDigSig class.
Inheritance diagram for PdfBaseDigSig:




## Public Member Functions

- void Destroy ()=0

*Destroys digital signature's resources.*

- bool SetReason (const wchar_t *reason)=0
  *Sets the reason for the signing.*
- bool SetLocation (const wchar_t *location)=0
  *Sets the location of signing.*
- bool SetContactInfo (const wchar_t *contact)=0
  *Sets the contact information of the signer.*
- bool SetName (const wchar_t *name)=0
- bool SetTimeStampServer (const wchar_t *url, const wchar_t *user_name, const wchar_t *password)=0
  *Set the timestamp server url and access credentials to apply the timestamp.*
- bool SignDoc (PdfDoc *doc, const wchar_t *path)=0
  *Apply the digital signature and save document to specified path.*

---

# Detailed Description

PdfBaseDigSig class.
A digital signature can be used to authenticate the identity of a user and the document's contents. It stores information about the signer and the state of the document when it was signed.

---

# Member Function Documentation

### void PdfBaseDigSig::Destroy () [pure virtual]

Destroys digital signature's resources.

**See also:**

CreatePdfDigSig

### bool PdfBaseDigSig::SetContactInfo (const wchar_t * *contact*) [pure virtual]

Sets the contact information of the signer.

**Parameters:**

| | |
|---|---|
| *contact* | Information provided by the signer to enable a recipient to contact the signer to verify the signature, for example, a phone number, etc. |

**Returns:**

true if was set successfully, false otherwise.

### bool PdfBaseDigSig::SetLocation (const wchar_t * *location*) [pure virtual]

Sets the location of signing.

**Parameters:**

| | |
|---|---|
| *location* | The CPU host name or physical location of the signing. |

**Returns:**

true if was set successfully, false otherwise.

### bool PdfBaseDigSig::SetName (const wchar_t * *name*) [pure virtual]

Sets the name of the person or authority signing the document. This value is be used when it is not possible to extract the name from the signature; for example, from the certificate of the signer or when PdfCustomDigSig is used.

**Parameters:**

| | |
|---|---|
| *name* | Name for signing. |

**Returns:**

true if was set successfully, false otherwise.

**See also:**

PdfCustomDigSig

### bool PdfBaseDigSig::SetReason (const wchar_t * *reason*) [pure virtual]

Sets the reason for the signing.

**Parameters:**

| | |
|---|---|
| *reason* | Reason for the signing. |

**Returns:**

true if was set successfully, false otherwise.

### bool PdfBaseDigSig::SetTimeStampServer (const wchar_t * *url*, const wchar_t * *user_name*, const wchar_t * *password*) [pure virtual]

Set the timestamp server url and access credentials to apply the timestamp.

**Parameters:**

| | |
|---|---|
| *url* | The url of the timesramp server . |
| *user_name* | The user name for accessing the timestamp server. |
| *password* | The password for accessing the timestamp server. |

**Returns:**

true if time stamp was set, false otherwise.

### bool PdfBaseDigSig::SignDoc (PdfDoc * *doc*, const wchar_t * *path*) [pure virtual]

Apply the digital signature and save document to specified path.

**Parameters:**

| | |
|---|---|
| *doc* | The document to be signed. |
| *path* | The path where the signed document will be saved. |

**Returns:**

true if document was signed, false otherwise.

---

# PdfBookmark Struct Reference

PdfBookmark class.

## Public Member Functions

- int GetTitle (1 wchar_t *buffer, int len)=0
  *Gets a bookmark's title.*
- void GetAppearance (PdfBookmarkAppearance *appearance)=0
  *Gets a bookmark's appearance.*
- PdfAction * GetAction ()=0
  *Gets a bookmark's action object.*
- int GetNumChildren ()=0
  *Gets the number of child bookmark in a parent bookmark object.*
- PdfBookmark * GetChild (int index)=0
  *Gets the requested child bookmark from a parent bookmark.*
- PdfBookmark * GetParent ()=0
  *Gets a bookmark's parent bookmark.*

---

## Detailed Description

PdfBookmark class.
A bookmark corresponds to an outline object in a PDF document. A document outline allows the user to navigate interactively from one part of the document to another. An outline consists of a tree-structured hierarchy of bookmarks, which display the document's structure to the user. Each bookmark has: A title that appears on screen. An action that specifies what happens when the user clicks on the bookmark.

---

# Member Function Documentation

## PdfAction* PdfBookmark::GetAction () [pure virtual]

Gets a bookmark's action object.

**Returns:**

The bookmark's action object or nullptr if bookmark does not have an action.

## void PdfBookmark::GetAppearance (PdfBookmarkAppearance * *appearance*) [pure virtual]

Gets a bookmark's appearance.

**Parameters:**

| | |
|---|---|
| *appearance* | (filled by method) Pointer to a PdfBookmarkAppearance structure. |

## PdfBookmark* PdfBookmark::GetChild (int *index*) [pure virtual]

Gets the requested child bookmark from a parent bookmark.

**Parameters:**

| | |
|---|---|
| *index* | The index of bookmark to obtain. |

**Returns:**

Requested bookmark.

**See also:**

PdfBookmark::GetNumChildren

### int PdfBookmark::GetNumChildren () [pure virtual]

Gets the number of child bookmark in a parent bookmark object.

**Returns:**

The number of children.

**See also:**

PdfBookmark::GetChild

### PdfBookmark* PdfBookmark::GetParent () [pure virtual]

Gets a bookmark's parent bookmark.

**Returns:**

Parent bookmark, or null if is the root bookmark of a document. NOTE: If parent is null, call only PdfBookmark::GetNumChildren and PdfBookmark::GetChild methods. Other methods return false.

### int PdfBookmark::GetTitle (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets a bookmark's title.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

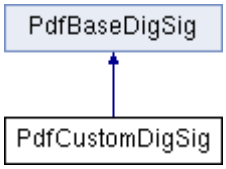
**Returns:**

Number of characters written into buffer of required length.

---

# PdfCustomDigSig Struct Reference

PdfCustomDigSig class.
Inheritance diagram for PdfCustomDigSig:




## Public Member Functions

- bool RegisterDigestDataProc (1 PdfDigestDataProc proc, void *data)=0
  *Registers a user-supplied procedure to call when PdfCustomDigSig::SignDoc is called.*

---

## Detailed Description

PdfCustomDigSig class.
Platfor independent digital signature object. Caller can handle signing process with callbacks.

---

## Member Function Documentation

### bool PdfCustomDigSig::RegisterDigestDataProc (1 PdfDigestDataProc *proc*, void * *data*) [pure virtual]

Registers a user-supplied procedure to call when PdfCustomDigSig::SignDoc is called.

**Parameters:**

| | |
|---|---|
| *proc* | A user-supplied callback to call when the digital signature requests signed digests data. |
| *data* | A pointer to user-supplied data to pass to proc each time it is called. |

**Returns:**

true if callback was registered, false otherwise.

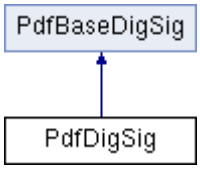
**See also:**

PdfCustomDigSig::RegisterDigestDataLenProc

---

# PdfDigSig Struct Reference

CPdfDigSig class.
Inheritance diagram for PdfDigSig:



## Public Member Functions

- bool SetPfxFile (const wchar_t *pfx_file, const wchar_t *pfx_password)=0
  *Set the pfx file for signing the document with digital signature.*

---

## Detailed Description

CPdfDigSig class.
Uses OpenSSL to handle certificates.

---

## Member Function Documentation

### bool PdfDigSig::SetPfxFile (const wchar_t * *pfx_file*, const wchar_t * *pfx_password*) [pure virtual]

Set the pfx file for signing the document with digital signature.

**Parameters:**

| | |
|---|---|
| *pfx_file* | The path of the PFX signature file. |
| *pfx_password* | The password to open the PFX file. |

**Returns:**

true if was set successfully, false otherwise.

---

# PdfDoc Struct Reference

PdfDoc class.

## Public Member Functions

- bool Save (const wchar_t *path, PdfSaveFlags flags)=0
- bool SaveToStream (PsStream *stream, PdfSaveFlags flags)=0
- bool Close ()=0
  *Closes a document and releases its resources. Changes are not saved.*
- bool AddWatermarkFromImage (PdfWatermarkParams *params, const wchar_t *path)=0
  *Adds an image-based watermark to a page range in the given document.*
- int GetNumPages ()=0
  *Gets the number of pages in a document.*
- PdfPage * AcquirePage (int page_num)=0
- bool ReleasePage (PdfPage *page)=0
  *Releases page's resources.*
- int GetNumDocumentJavaScripts ()=0

*Get the number of document JavaScript name/action pairs in the document JavaScript name tree.*

- int GetDocumentJavaScript (int index, 1 wchar_t *buffer, int len)=0
  *Get the document JavaScript action by it's index in th documente JavaScript name tree.*
- int GetDocumentJavaScriptName (int index, 1 wchar_t *buffer, int len)=0
  *Get the document JavaScript action name by it's index in th documente JavaScript name tree.*
- int GetNumCalculatedFormFields ()=0
  *Get the number of calculated form fields in AcroForm calculated order (CO) which is an array.*
- PdfFormField * GetCalculatedFormField (int index)=0
  *Get the calculated form field from AcroForm calculation order array (CO) by index.*
- int GetNumFormFields ()=0
  *Get the total number of form fields in document's AcroForm Fields tree.*
- PdfFormField * GetFormField (int index)=0
  *Get the form field in document's AcroForm Fields tree by index.*
- PdfFormField * GetFormFieldByName (const wchar_t *buffer)=0
  *Get the form field in document's AcroForm Fields tree by name.*
- int GetInfo (const wchar_t *key, 1 wchar_t *buffer, int len)=0
  *Gets the value of a key in a document's Info dictionary.*
- bool SetInfo (const wchar_t *key, const wchar_t *buffer)=0
  *Set the value of a key in a document's Info dictionary.*
- PdfBookmark * GetBookmarkRoot ()=0
- bool FlattenAnnots (PdfFlattenAnnotsParams *params)=0

---

# Detailed Description

PdfDoc class.
A PdfDoc object represents a PDF document.

---

# Member Function Documentation

## PdfPage* PdfDoc::AcquirePage (int *page_num*) [pure virtual]

Gets a PdfPage from a document. The page is cached, so that subsequent calls on the same PDPage return The same PdfPage. The page remains in the cache as long as document exists or ReleasePage was not called. NOTE: After you are done using the page, release it using ReleasePage to release resources.

**Parameters:**

| | |
|---|---|
| *page_num* | The page number of the page to get. The first page is 0. |

**Returns:**

The requested page.

**See also:**

PdfPage::ReleasePage

## bool PdfDoc::AddWatermarkFromImage (PdfWatermarkParams * *params*, const wchar_t * *path*) [pure virtual]

Adds an image-based watermark to a page range in the given document.

**Parameters:**

| | |
|---|---|
| *params* | Structure specifying how the watermark should be added to the document. |
| *path* | Path to the image file. Only JPEG format is supported for now. |

**Returns:**

true if the watermark was added succsessfully, false otherwise.

### bool PdfDoc::Close () [pure virtual]

Closes a document and releases its resources. Changes are not saved.

**Returns:**

true if document was closed. Return false if there are any outstanding references to objects in the document. Destroy such objects first and try Close again.

**See also:**

PdfDoc::Save

### bool PdfDoc::FlattenAnnots (PdfFlattenAnnotsParams * *params*) [pure virtual]

Flatten annotation appearances to the document content and removes flattened annotation from the page

**Returns:**

true if annotation flattening was successfull, false othervise

### PdfBookmark* PdfDoc::GetBookmarkRoot () [pure virtual]

Gets the abstract root of the document's bookmark tree. This bookmark has no representation in PDF, it only holds top level of document's bookmarks. NOTE: Call only PdfBookmark::GetNumChildren and PdfBookmark::GetChild methods for this bookmark. Other methods return false.

**Returns:**

The document's root bookmark.

### PdfFormField* PdfDoc::GetCalculatedFormField (int *index*) [pure virtual]

Get the calculated form field from AcroForm calculation order array (CO) by index.

**Parameters:**

| | |
|---|---|
| *index* | The index of a form field to retrieve. |

**Returns:**

The PdfFormField object or nullptr in case of error.

**See also:**

PdfDoc::GetNumCalculatedFormFields
PdfDoc::GetNumFormFieldCounts
PdfDoc:GetFormField

## int PdfDoc::GetDocumentJavaScript (int *index*, 1 wchar_t * *buffer*, int *len*) [pure virtual]

Get the document JavaScript action by it's index in th documente JavaScript name tree.

**Parameters:**

| | |
|---|---|
| *index* | The index of a JavaScript action name to retrieve |
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

**See also:**

PdfDoc::GetNumDocumentJavaScripts
PdfDoc::GetDocumentJavaScriptName

## int PdfDoc::GetDocumentJavaScriptName (int *index*, 1 wchar_t * *buffer*, int *len*) [pure virtual]

Get the document JavaScript action name by it's index in th documente JavaScript name tree.

**Parameters:**

| | |
|---|---|
| *index* | The index of a JavaScript action name to retrieve |
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

**See also:**

PdfDoc::GetNumDocumentJavaScripts
PdfDoc::GetDocumentJavaScript

## PdfFormField* PdfDoc::GetFormField (int *index*) [pure virtual]

Get the form field in document's AcroForm Fields tree by index.

**Returns:**

The PdfFormField object or nullptr in case of error.

**See also:**

PdfDoc::GetNumCalculatedFormFields
PdfDoc::GetCalculatedFormField
PdfDoc::GetNumFormFieldCounts

## PdfFormField* PdfDoc::GetFormFieldByName (const wchar_t * *buffer*) [pure virtual]

Get the form field in document's AcroForm Fields tree by name.

**Returns:**

The PdfFormField object or nullptr in case of error.

**See also:**

PdfDoc::GetNumCalculatedFormFields
PdfDoc::GetCalculatedFormField
PdfDoc::GetNumFormFieldCounts

## int PdfDoc::GetInfo (const wchar_t * *key*, 1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the value of a key in a document's Info dictionary.

**Parameters:**

| | |
|---|---|
| *key* | The name of the Info dictionary key whose value is obtained. |
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

### int PdfDoc::GetNumCalculatedFormFields () [pure virtual]

Get the number of calculated form fields in AcroForm calculated order (CO) which is an array.

**Returns:**

Number of calculated form fields in the document.

**See also:**

PdfDoc::GetCalculatedFormField
PdfDoc::GetNumFormFieldCounts
PdfDoc:GetFormField

### int PdfDoc::GetNumDocumentJavaScripts () [pure virtual]

Get the number of document JavaScript name/action pairs in the document JavaScript name tree.

**Returns:**

Number document name/action pairs in the document's JavaScript name tree.

**See also:**

PdfDoc::GetDocumentJavaScript
PdfDoc::GetDocumentJavaScriptName

### int PdfDoc::GetNumFormFields () [pure virtual]

Get the total number of form fields in document's AcroForm Fields tree.

**Returns:**

Number of form fields in the document.

**See also:**

PdfDoc::GetNumCalculatedFormFields
PdfDoc::GetCalculatedFormField
PdfDoc:GetFormField

### int PdfDoc::GetNumPages () [pure virtual]

Gets the number of pages in a document.

**Returns:**

Number of pages in the document.

### bool PdfDoc::ReleasePage (PdfPage * *page*) [pure virtual]

Releases page's resources.

**Parameters:**

| | |
|---|---|
| *page* | The page to release. |

**Returns:**

true if page was released, false otherwise.

**See also:**

PdfPage::AcquirePage

### bool PdfDoc::Save (const wchar_t * *path*, PdfSaveFlags *flags*) [pure virtual]

Saves a document to disk. NOTE: You must call PdfDoc::Close to release resources.

**Parameters:**

| | |
|---|---|
| *path* | The path to which the file is saved. |
| *flags* | A PdfSaveFlags value. If kSaveIncremental is specified in flags, then path should be NULL. If kSaveFull is specified and path is the same as the file's original path, the new file is saved to a file system-determined temporary path, then the old file is deleted and the new file is renamed to path. |

**See also:**

PdfDoc::Close

### bool PdfDoc::SaveToStream (PsStream * *stream*, PdfSaveFlags *flags*) [pure virtual]

Saves a document to a stream. NOTE: You must call PdfDoc::Close to release resources.

**Parameters:**

| | |
|---|---|
| *stream* | The stream to which the file is saved. |
| *flags* | A PdfSaveFlags value. If kSaveIncremental is specified in flags, then path should be NULL. If kSaveFull is specified and path is the same as the file's original path, the new file is saved to a file system-determined temporary path, then the old file is deleted and the new file is renamed to path. |

**See also:**

PdfDoc::Close, Pdfix::CreateStream

### bool PdfDoc::SetInfo (const wchar_t * *key*, const wchar_t * *buffer*) [pure virtual]

Set the value of a key in a document's Info dictionary.

**Parameters:**

| | |
|---|---|
| *key* | The name of the Info dictionary key whose value is obtained. |
| *buffer* | String value to be set for the specific Info dictionary entry. |

**Returns:**

true if optaining the font state was succsessfull, false otherwise.

---

# PdfFont Struct Reference

PdfFont class.

## Public Member Functions

- int GetFontName (1 wchar_t *buffer, int len)=0
  *Gets the name of a font.*
- int GetFaceName (1 wchar_t *buffer, int len)=0
  *Gets the face of a font.*
- void GetFontState (1 PdfFontState *font_state)=0
  *Gets the font state of a font.*
- int GetSystemFontName (1 wchar_t *buffer, int len)=0
  *Gets the name of a font which is a system replacement for the font.*
- PdfFontCharset GetSystemFontCharset ()=0
  *Gets the charset of a font which is a system replacement for the font.*
- bool GetSystemFontBold ()=0
  *Gets the the system font bold flag.*
- bool GetSystemFontItalic ()=0
  *Gets the the system font italic flag.*
- bool Save (const wchar_t *path, PdfFontFormat format)=0
  *Saves the font into a font file.*

---

## Detailed Description

PdfFont class.
PdfFont class.

---

## Member Function Documentation

### int PdfFont::GetFaceName (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the face of a font.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

## int PdfFont::GetFontName (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the name of a font.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

## void PdfFont::GetFontState (1 PdfFontState * *font_state*) [pure virtual]

Gets the font state of a font.

**Parameters:**

| | |
|---|---|
| *font_state* | (filled by method) Pointer to font state structure to be filled in. |

**Returns:**

true if optaining the font state was succsessfull, false otherwise.

### bool PdfFont::GetSystemFontBold () [pure virtual]

Gets the the system font bold flag.

**Returns:**

true is font is bold, false otherwise.

### PdfFontCharset PdfFont::GetSystemFontCharset () [pure virtual]

Gets the charset of a font which is a system replacement for the font.

**Returns:**

Number of charset of a font.

### bool PdfFont::GetSystemFontItalic () [pure virtual]

Gets the the system font italic flag.

**Returns:**

true is font is italic, false otherwise.

### int PdfFont::GetSystemFontName (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the name of a font which is a system replacement for the font.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

### bool PdfFont::Save (const wchar_t * *path*, PdfFontFormat *format*) [pure virtual]

Saves the font into a font file.

**Parameters:**

| | |
|---|---|
| *path* | Path where to save font data in requested format. |
| *format* | PdfFontFormat. |

**Returns:**

true if succeeded, false otherwise.

---

# PdfFormField Struct Reference

PdfFormField class.

## Public Member Functions

- PdfFieldType GetType ()=0
  *Gets the type of field.*
- PdfFieldFlags GetFlags ()=0
  *Gets the form field's flags.*
- int GetValue (1 wchar_t *buffer, int len)=0
  *Gets the field's value as string.*
- bool SetValue (const wchar_t *buffer)=0
  *Sets the field's value as string. Multiple values should be comma-separated.*
- int GetDefaultValue (1 wchar_t *buffer, int len)=0
  *Gets the field's default value as string.*
- int GetFullName (1 wchar_t *buffer, int len)=0
  *Gets the field's full name within the document AcroForm field tree.*
- int GetTooltip (1 wchar_t *buffer, int len)=0
  *Gets the field's tooltip.*
- int GetOptionCount ()=0
  *Gets the number of elements in the Opt array.*
- int GetOptionValue (int index, 1 wchar_t *buffer, int len)=0
  *Gets the field's option value.*
- int GetOptionCaption (int index, 1 wchar_t *buffer, int len)=0
  *Gets the field's option caption.*
- PdfAction * GetAction ()=0
  *Gets a field's action object.*
- PdfAction * GetAAction (PdfActionEventType event)=0
  *Gets a field's additional action object.*
- int GetMaxLength ()=0
  *Gets maximum length of the field's text, in characters.*
- int GetWidgetExportValue (PdfAnnot *annot, 1 wchar_t *buffer, int len)=0
  *Gets the field's widget export value.*

---

# Detailed Description

PdfFormField class.
PdfFormField object represents interactive form dictionary that shall be referenced from the AcroForm entry in the document catalogue

---

# Member Function Documentation

## PdfAction* PdfFormField::GetAAction (PdfActionEventType *event*) [pure virtual]

Gets a field's additional action object.

**Parameters:**

| | |
|---|---|
| *event* | The event which additional action to get. |

**Returns:**

The annotation's additional action object or nullptr if annotation does not have an action for specified event type.

**See also:**

GetAction

## PdfAction* PdfFormField::GetAction () [pure virtual]

Gets a field's action object.

**Returns:**

The annotation's action object or nullptr if annotation does not have an action.

**See also:**

GetAAction

## int PdfFormField::GetDefaultValue (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the field's default value as string.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

## PdfFieldFlags PdfFormField::GetFlags () [pure virtual]

Gets the form field's flags.

**Returns:**

The form field's flags.

## int PdfFormField::GetFullName (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the field's full name within the document AcroForm field tree.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

## int PdfFormField::GetMaxLength () [pure virtual]

Gets maximum length of the field's text, in characters.

**Returns:**

The maximum number of characters.

## int PdfFormField::GetOptionCaption (int *index*, 1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the field's option caption.

**Parameters:**

| | |
|---|---|
| *index* | The index of option to retrieve. |
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

## int PdfFormField::GetOptionCount () [pure virtual]

Gets the number of elements in the Opt array.

**Returns:**

Number of field's options.

## int PdfFormField::GetOptionValue (int *index*, 1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the field's option value.

**Parameters:**

| | |
|---|---|
| *index* | The index of option to retrieve. |
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

## int PdfFormField::GetTooltip (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the field's tooltip.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

### PdfFieldType PdfFormField::GetType () [pure virtual]

Gets the type of field.

**Returns:**

The form field type.

### int PdfFormField::GetValue (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the field's value as string.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

### int PdfFormField::GetWidgetExportValue (PdfAnnot * *annot*, 1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets the field's widget export value.

**Parameters:**

| | |
|---|---|
| *annot* | The widget annotation which export value is to be retrieved. |
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

### bool PdfFormField::SetValue (const wchar_t * *buffer*) [pure virtual]

Sets the field's value as string. Multiple values should be comma-separated.

**Parameters:**

| | |
|---|---|
| *buffer* | The new form field string value |

**Returns:**

true if succeeded, false otherwise.

---

# PdfImage Struct Reference

PdfImage class.

## Public Member Functions

- bool Save (const wchar_t *path, PdfImageFormat format)=0
  *Saves the image data into a file.*
- bool SaveRect (PdfDevRect *dev_rect, const wchar_t *path, PdfImageFormat format)=0
  *Saves a clip of the image data into a file.*
- void GetPointColor (PdfDevPoint *point, 1 PdfRGB *color)=0
  *Gets a color of the image point.*

---

## Detailed Description

PdfImage class.
PdfImage contains an image data in an internal format.

---

## Member Function Documentation

### void PdfImage::GetPointColor (PdfDevPoint * *point*, 1 PdfRGB * *color*) [pure virtual]

Gets a color of the image point.

**Parameters:**

| | |
|---|---|
| *point* | A point which color is requested. |
| *color(filled* | by method) RGB color of the image point. |

### bool PdfImage::Save (const wchar_t * *path*, PdfImageFormat *format*) [pure virtual]

Saves the image data into a file.

**Parameters:**

| | |
|---|---|
| *path* | Path where to save image data in requested format. |
| *format* | PdfImageFormat. |

**Returns:**

true if succeeded, false otherwise.

**See also:**

PdfImageFormat

### bool PdfImage::SaveRect (PdfDevRect * *dev_rect*, const wchar_t * *path*, PdfImageFormat *format*) [pure virtual]

Saves a clip of the image data into a file.

**Parameters:**

| | |
|---|---|
| *dev_rect* | Clip area of the image data that needs to be saved. |
| *path* | Path where to save image data in requested format. |
| *format* | PdfImageFormat. |

**Returns:**

true if succeeded, false otherwise.

**See also:**

PdfImageFormat

---

# Pdfix Struct Reference

Pdfix class.

## Public Member Functions

- void Destroy ()=0
  *Destroys Pdfix resources.*
- bool Authorize (const wchar_t *email, const wchar_t *serial_number)=0
  *Authorizes Pdfix.*
- bool IsAuthorized ()=0
  *Returns authorization state.*
- bool IsAuthorizedPlatform (PdfAuthPlatform platform)=0
  *Returns authorization state.*
- bool IsAuthorizedOption (PdfAuthOption option)=0
  *Returns authorization state.*
- PdfErrorType GetErrorType ()=0
- const char * GetError ()=0
- void SetError (PdfErrorType type, const char *error)=0
  *Sets the latest error message to the library.*
- int GetVersionMajor ()=0
- int GetVersionMinor ()=0
- int GetVersionPatch ()=0
- PdfDoc * OpenDoc (const wchar_t *path, const wchar_t *password)=0

- PdfDoc * OpenDocFromStream (PsStream *stream, const wchar_t *password)=0
- PdfCustomDigSig * CreateCustomDigSig ()=0
- PsRegex * CreateRegex ()=0
- PsStream * CreateStream ()=0
- bool RegisterEvent (PdfEventType type, 1 PdfEventProc proc, void *data)=0
  *Registers a user-supplied procedure to call when the specified event occurs.*
- bool UnregisterEvent (PdfEventType type, PdfEventProc proc, void *data)=0
- void SetRegex (PdfRegexType type, const wchar_t *regex)=0
  *Sets regular expressions for content recognition.*

---

# Detailed Description

Pdfix class.
Pdfix loads and unloads library. It initialized all necessary resources and also takes care about releasing it.

---

# Member Function Documentation

### bool Pdfix::Authorize (const wchar_t * *email*, const wchar_t * *serial_number*) [pure virtual]

Authorizes Pdfix.

**Returns:**

true if Pdfix was authorized successfuly, false otherwise.

### PdfCustomDigSig* Pdfix::CreateCustomDigSig () [pure virtual]

Creates a new PdfCustomDigSig object. Call PdfDigSig::Destroy method to release resources.

**Returns:**

Initialized PdfCustomDigSig object.

**See also:**

PdfDigSig::Destroy

### PsRegex* Pdfix::CreateRegex () [pure virtual]

Creates a new PsRegex object. Call PsRegex::Destroy to release all regex resources.

**Returns:**

Initialized PsRegex object.

**See also:**

PsRegex::Destroy

### PsStream* Pdfix::CreateStream () [pure virtual]

Creates a new PsStream object. It's a data stream that may be a buffer in memory or a file. Call PsStream::Destroy to release all stream resources.

**Returns:**

Initialized PsStream object.

**See also:**

PsStream::Destroy, Pdfix::OpenDocFromStream, Pdfix::CreateImageFromStream

### void Pdfix::Destroy () [pure virtual]

Destroys Pdfix resources.

**See also:**

Pdfix::CreatePdfix

### const char* Pdfix::GetError () [pure virtual]

Returns the latest error message from the library. The error message is set each time, when any library method fails.

**Returns:**

The last error, empty string otherwise.

### PdfErrorType Pdfix::GetErrorType () [pure virtual]

Returns the latest error type from the library. The error type is set each time, when any library method fails.

**Returns:**

The last error type.

### int Pdfix::GetVersionMajor () [pure virtual]

Returns the major version. This is the first integer in a version number and is increased whenever significant changes are made.

**Returns:**

The major version number.

### int Pdfix::GetVersionMinor () [pure virtual]

Returns the minor version. This is the second integer in a compound version number. This is normally set to 0 after each major release and increased whenever smaller features or significant bug fixes have been added.

**Returns:**

The minor version number.

### int Pdfix::GetVersionPatch () [pure virtual]

Returns the patch version. The (optional) third integer is the patch number, sometimes also called the revision number. Changes in patch number should imply no change to the actual API interface, only changes to the behavior of the API.

**Returns:**

The patch version number.

### bool Pdfix::IsAuthorized () [pure virtual]

Returns authorization state.

**Returns:**

true if PDFix was authorized, false othervise.

### bool Pdfix::IsAuthorizedOption (PdfAuthOption *option*) [pure virtual]

Returns authorization state.

**Returns:**

true if PDFix was authorized for this option, false othervise.

## bool Pdfix::IsAuthorizedPlatform (PdfAuthPlatform *platform*) [pure virtual]

Returns authorization state.

**Returns:**

true if PDFix was authorized for this platform, false othervise.

## PdfDoc* Pdfix::OpenDoc (const wchar_t * *path*, const wchar_t * *password*) [pure virtual]

Opens the specified document. If the document is already open, returns a reference to the already opened PdfDoc. NOTE: You must call PdfDoc::Close once for every successful open.

**Parameters:**

| | |
|---|---|
| *path* | Path to the file. |
| *password* | File password. |

**Returns:**

The newly created document or null.

**See also:**

Close

## PdfDoc* Pdfix::OpenDocFromStream (PsStream * *stream*, const wchar_t * *password*) [pure virtual]

Opens the specified document from memory. If the document is already open, returns a reference to the already opened PdfDoc. You must call PdfDoc::Close once for every successful open.

**Parameters:**

| | |
|---|---|
| *stream* | PsStream object. |
| *password* | File password. |

**Returns:**

The newly created document or null.

**See also:**

Close

## bool Pdfix::RegisterEvent (PdfEventType *type*, 1 PdfEventProc *proc*, void * *data*) [pure virtual]

Registers a user-supplied procedure to call when the specified event occurs.

**Parameters:**

| | |
|---|---|
| *type* | The event type. |
| *proc* | A user-supplied callback to call when the event occurs. |
| *data* | A pointer to user-supplied data to pass to proc each time it is called. |

**Returns:**

true if event was registered, false otherwise.

### void Pdfix::SetError (PdfErrorType *type*, const char * *error*) [pure virtual]

Sets the latest error message to the library.

**Parameters:**

| | |
|---|---|
| *type* | The last error type. |
| *error* | The last error. |

### void Pdfix::SetRegex (PdfRegexType *type*, const wchar_t * *regex*) [pure virtual]

Sets regular expressions for content recognition.

**Parameters:**

| | |
|---|---|
| *type* | PdfRegexType type. |
| *regex* | Regular expression pattern. |

### bool Pdfix::UnregisterEvent (PdfEventType *type*, PdfEventProc *proc*, void * *data*) [pure virtual]

Unregisters a user-supplied procedure to call when the specified event occurs. To un-register, you must use same type, proc and data that were used when the event was registered using Pdfix::RegisterEvent.

**Parameters:**

| | |
|---|---|
| *type* | The registered event type. |
| *proc* | A registered user-supplied callback. |
| *data* | A pointer to registered user-supplied data. |

**Returns:**

true if event was registered, false otherwise.

---

# PdfixPlugin Struct Reference

PdfixPlugin virtual class.

## Public Member Functions

- void Destroy ()=0
  *Destroys Pdfix plugin resources.*
- bool Initialize (Pdfix *pdfix)=0

*Authorizes Pdfix.*

- int GetVersionMajor ()=0
- int GetVersionMinor ()=0
- int GetVersionPatch ()=0
- int GetId ()=0

  *Returns the plugin identifier. This identifier is used to authorise the plugin.*

---

# Detailed Description

PdfixPlugin virtual class.
PdfixPlugin loads and unloads Pdfix plugin. It initialized all necessary resources and also takes care about releasing it.

---

# Member Function Documentation

## void PdfixPlugin::Destroy () [pure virtual]

Destroys Pdfix plugin resources.

**See also:**

Pdfix::CreatePdfix

## int PdfixPlugin::GetId () [pure virtual]

Returns the plugin identifier. This identifier is used to authorise the plugin.

**Returns:**

The plugin identifier.

## int PdfixPlugin::GetVersionMajor () [pure virtual]

Returns the major version. This is the first integer in a version number and is increased whenever significant changes are made.

**Returns:**

The major version number.

## int PdfixPlugin::GetVersionMinor () [pure virtual]

Returns the minor version. This is the second integer in a compound version number. This is normally set to 0 after each major release and increased whenever smaller features or significant bug fixes have been added.

**Returns:**

The minor version number.

## int PdfixPlugin::GetVersionPatch () [pure virtual]

Returns the patch version. The (optional) thirdinteger is the patch number, sometimes also called the revision number. Changes in patch number should imply no change to the actual API interface, only changes to the behavior of the API.

**Returns:**

The patch version number.

## bool PdfixPlugin::Initialize (Pdfix * *pdfix*) [pure virtual]

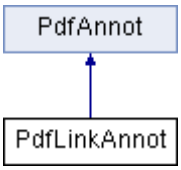
Authorizes Pdfix.

**Returns:**

true if Pdfix was authorized successfuly, false otherwise.

# PdfLinkAnnot Struct Reference

PdfLinkAnnot class.
Inheritance diagram for PdfLinkAnnot:




## Public Member Functions

- int GetNumQuads ()=0
  *Gets the number of quads for the link.*
- void GetQuad (int index, 1 PdfQuad *quad)=0
- bool AddQuad (PdfQuad *quad)=0
  *Adds a new quad to the link annot.*
- bool RemoveQuad (int index)=0
  *Removes a quad with the specified index.*
- PdfAction * GetAction ()=0
  *Gets an link's action object.*

---

## Detailed Description

PdfLinkAnnot class.
A link annotation represents either a hypertext link to a destination elsewhere in the document or an action to be performed.

---

## Member Function Documentation

### bool PdfLinkAnnot::AddQuad (PdfQuad * *quad*) [pure virtual]

Adds a new quad to the link annot.

**Parameters:**

| | |
|---|---|
| *quad* | Pointer to PdfQuad to add. |

**Returns:**

true if quad was added sucessfully, false otherwise.

**See also:**

PdfLinkAnnot::GetNumQuads

## PdfAction* PdfLinkAnnot::GetAction () [pure virtual]

Gets an link's action object.

**Returns:**

The link's action object or nullptr if link does not have an action.

## int PdfLinkAnnot::GetNumQuads () [pure virtual]

Gets the number of quads for the link.

**Returns:**

Number of quads.

**See also:**

PdfLinkAnnot::GetQuad

## void PdfLinkAnnot::GetQuad (int *index*, 1 PdfQuad * *quad*) [pure virtual]

Gets the requested quad. The coordinates of the quadrilaterals are in default user space that comprise the region in which the link should be activated.

**Parameters:**

| | |
|---|---|
| *index* | Index of an link quad to retrieve. |
| *quad* | (filled by the method) Pointer to PdfQuad structure to fill. |

**See also:**

PdfLinkAnnot::GetNumQuads

## bool PdfLinkAnnot::RemoveQuad (int *index*) [pure virtual]

Removes a quad with the specified index.

**Parameters:**

| | |
|---|---|
| *index* | The index of the quad to remove. |

**Returns:**

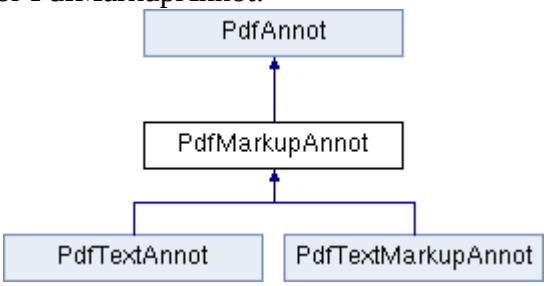
true if quad was removed, false otherwise.

**See also:**

PdfLinkAnnot::GetNumQuads

# PdfMarkupAnnot Struct Reference

PdfMarkupAnnot class.
Inheritance diagram for PdfMarkupAnnot:




## Public Member Functions

- int GetContents (1 wchar_t *buffer, int len)=0
- bool SetContents (const wchar_t *buffer)=0
- int GetAuthor (1 wchar_t *buffer, int len)=0
  *Get the author of the markup annotation.*
- bool SetAuthor (const wchar_t *buffer)=0
  *Set the author of the markup annotation.*
- int GetNumReplies ()=0
  *Both annotations must be on the same page of the document.*
- PdfAnnot * GetReply (int index)=0
  *Both annotations must be on the same page of the document.*
- PdfAnnot * AddReply (const wchar_t *author, const wchar_t *text)=0
  *Adds a new reply to the markup annotation.*

---

## Detailed Description

PdfMarkupAnnot class.
Markup annotations represent a markup annotation in a pdf document.

---

## Member Function Documentation

### PdfAnnot* PdfMarkupAnnot::AddReply (const wchar_t * *author*, const wchar_t * *text*) [pure virtual]

Adds a new reply to the markup annotation.

**Parameters:**

| | |
|---|---|
| *author* | The author of the reply. |
| *text* | The content of the reply to add. |

**Returns:**

Requested PdfAnnot that is reply to the current annotation or nullptr in case of error.

**See also:**

PdfMarkupAnnot::AddReply

## int PdfMarkupAnnot::GetAuthor (1 wchar_t * *buffer*, int *len*) [pure virtual]

Get the author of the markup annotation.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

**See also:**

PdfMarkupAnnot::GetAuthor

## int PdfMarkupAnnot::GetContents (1 wchar_t * *buffer*, int *len*) [pure virtual]

Get the contents of the markup annotation. It's a text to be displayed for the annotation or, if this type of annotation does not display text, an alternate description of the annotation's contents in human - readable form. In either case, this text is useful when extracting the document's contents in support of accessibility to users with disabilities or for other purposes.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) if the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

**See also:**

PdfMarkupAnnot::GetContents

### int PdfMarkupAnnot::GetNumReplies () [pure virtual]

Both annotations must be on the same page of the document.

Gets the requested reply. Reply is a reference to another PdfAnnot object that was created

**Returns:**

Number of replies.

**See also:**

PdfMarkupAnnot::GetNumReplies

### PdfAnnot* PdfMarkupAnnot::GetReply (int *index*) [pure virtual]

Both annotations must be on the same page of the document.

Gets the requested reply. Reply is a reference to another PdfAnnot object that was created

**Returns:**

Requested PdfAnnot that is reply to the current annotation.

**See also:**

PdfMarkupAnnot::GetReply

### bool PdfMarkupAnnot::SetAuthor (const wchar_t * *buffer*) [pure virtual]

Set the author of the markup annotation.

**Parameters:**

| | |
|---|---|
| *buffer* | The content string to be set. |

**Returns:**

true if the author was set, false otherwise.

**See also:**

PdfMarkupAnnot::SetAuthor

### bool PdfMarkupAnnot::SetContents (const wchar_t * *buffer*) [pure virtual]

Set the contents of the markup annotation. It's a text to be displayed for the annotation or, if this type of annotation does not display text, an alternate description of the annotation's contents in human - readable form. In either case, this text is useful when extracting the document's contents in support of accessibility to users with disabilities or for other purposes.

**Parameters:**

| | |
|---|---|
| *buffer* | The content string to be set. |

**Returns:**

true if the content was set, false otherwise.

**See also:**

PdfMarkupAnnot::SetContents

---

# PdfPage Struct Reference

PdfPage class.

## Public Member Functions

- void GetCropBox (1 PdfRect *crop_box)=0
  *Gets the crop box for a page. The crop box is the region of the page to display and print.*
- void GetMediaBox (1 PdfRect *media_box)=0
- PdfRotate GetRotate ()=0
  *Gets the rotation value for a page.*
- void GetDefaultMatrix (1 PdfMatrix *matrix)=0
- int GetNumber ()=0
  *Gets the page number for the specified page.*
- PdePageMap * AcquirePageMap (PdfPageMapParams *params, 1 PdfCancelProc cancel_proc, void *cancel_data)=0
- bool ReleasePageMap ()=0
- PdfPageView * AcquirePageView (double zoom, PdfRotate rotate)=0
- bool ReleasePageView (PdfPageView *page_view)=0
- int GetNumAnnots ()=0
- PdfAnnot * GetAnnot (int index)=0
  *Gets the requested annotation on the page.*
- bool RemoveAnnot (int index, PdfRemoveAnnotFlags flags)=0
- PdfTextAnnot * AddTextAnnot (int index, PdfRect *rect)=0
  *Adds a text annotation to the page.*
- PdfLinkAnnot * AddLinkAnnot (int index, PdfRect *rect)=0
  *Adds a link annotation to the page.*
- PdfTextMarkupAnnot * AddTextMarkupAnnot (int index, PdfRect *rect, PdfAnnotSubtype subtype)=0
  *Adds a text markup annotation to the page.*
- int GetNumAnnotsAtPoint (PdfPoint *point)=0
  *Gets the number of annotations that reside under the given point.*
- PdfAnnot * GetAnnotAtPoint (PdfPoint *point, int index)=0
  *Gets the requested annotation that resides under the given point.*
- int GetNumAnnotsAtRect (PdfRect *rect)=0
- PdfAnnot * GetAnnotAtRect (PdfRect *rect, int index)=0
  *Gets the requested annotation that resides under the given rectangle.*

---

# Detailed Description

PdfPage class.
A PdfPage is a page in a document. Among other associated objects, a page contains PdePageMap, that represents the page content.

---

# Member Function Documentation

## PdePageMap* PdfPage::AcquirePageMap (PdfPageMapParams * *params*, 1 PdfCancelProc *cancel_proc*, void * *cancel_data*) [pure virtual]

Generates a PdePageMap from the PdfPage's elements. The PdePageMap is cached, so that subsequent calls on the same PDPage return the same PdePageMap. The PdePageMap remains in the cache as long as page exists or ReleasePageMap was not called. Call ReleasePageMap to release pagemap resources if necessary.

**Parameters:**

| | |
|---|---|
| *params* | Page map parameters that allow modify the page map algorithm. |
| *cancel_proc* | Callback to check for canceling operations. A CancelProc is typically passed to some method that takes a long time to complete. At frequent intervals, the method calls the CancelProc. If it returns true, then the method cancels its operation; if false, it continues. |
| *cancel_data* | Pointer to client data for the cancel procedure. |

**Returns:**

PdePageMap for the current page.

**See also:**

PdfPage::ReleasePageMap

## PdfPageView* PdfPage::AcquirePageView (double *zoom*, PdfRotate *rotate*) [pure virtual]

Generates a PdfPageView from the PdfPage's elements. The PdfPageView is cached, so that subsequent calls on the same PDPage and same input parameters return the same PdePageMap. The PdePageMap remains in the cache as long as page exists or ReleasePageView was not called. Call ReleasePageView to release pagemap resources if necessary.

**Parameters:**

| | |
|---|---|
| *zoom* | Expected zoom of the page view. |
| *rotate* | Expected rotation of the page view. |

**Returns:**

An acquired page view or null.

**See also:**

PdfPage::ReleasePageView

## PdfLinkAnnot* PdfPage::AddLinkAnnot (int *index*, PdfRect * *rect*) [pure virtual]

Adds a link annotation to the page.

**Parameters:**

| | |
|---|---|
| *index* | Where to add the annotation in the page's annotation array. |
| *rect* | Pointer to a rectangle specifying the annotation's bounds, specified in user space coordinates. If it's null, use PdfLinkAnnot::AddQuad to specify the size and location of an annotation on its page. |

**Returns:**

The newly created PdfLinkAnnot.

**See also:**

PdfPage::AddTextAnnot, PdfLinkAnnot::AddQuad

## PdfTextAnnot* PdfPage::AddTextAnnot (int *index*, PdfRect * *rect*) [pure virtual]

Adds a text annotation to the page.

**Parameters:**

| | |
|---|---|
| *index* | Where to add the annotation in the page's annotation array. Passing a value of -1 adds the annotation to the end of the array (this is generally what you should do unless you have a need to place the annotation at a special location in the array). Passing a value of 0 adds the annotation to the beginning of the array. |
| *rect* | Pointer to a rectangle specifying the annotation's bounds, specified in user space coordinates. |

**Returns:**

The newly created PdfTextAnnot.

**See also:**

PdfPage::GetNumAnnots

## PdfTextMarkupAnnot* PdfPage::AddTextMarkupAnnot (int *index*, PdfRect * *rect*, PdfAnnotSubtype *subtype*) [pure virtual]

Adds a text markup annotation to the page.

**Parameters:**

| | |
|---|---|
| *subtype* | Define a subtype of the text markup annotation. Must be one of kAnnotHighlight, kAnnotUnderline, kAnnotSquiggly, kAnnotStrikeOut. |
| *index* | Where to add the annotation in the page's annotation array. |

| | |
|---|---|
| *rect* | Pointer to a rectangle specifying the annotation's bounds, specified in user space coordinates. If it's null, use PdfTextMarkupAnnot::AddQuad to specify the size and location of an annotation on its page. |

**Returns:**

The newly created PdfTextMarkupAnnot.

**See also:**

PdfPage::AddTextAnnot, PdfTextMarkupAnnot::AddQuad

## PdfAnnot* PdfPage::GetAnnot (int *index*) [pure virtual]

Gets the requested annotation on the page.

**Parameters:**

| | |
|---|---|
| *index* | The index of annotation to obtain. |

**Returns:**

Requested annotation object.

**See also:**

PdfPage::GetNumAnnots

## PdfAnnot* PdfPage::GetAnnotAtPoint (PdfPoint * *point*, int *index*) [pure virtual]

Gets the requested annotation that resides under the given point.

**Parameters:**

| | |
|---|---|
| *point* | The point to test. |
| *index* | (filled by the method) Index of annotation to obtain. |

**Returns:**

Pointer to the requested annotation, nullptr in a case of error.

**See also:**

PdfPage::GetAnnotAtRect

## PdfAnnot* PdfPage::GetAnnotAtRect (PdfRect * *rect*, int *index*) [pure virtual]

Gets the requested annotation that resides under the given rectangle.

**Parameters:**

| | |
|---|---|
| *rect* | The rectangle to test. |
| *index* | (filled by the method) Index of annotation to obtain. |

**Returns:**

Pointer to the requested annotation, nullptr in a case of error.

**See also:**

PdfPage::GetAnnotAtRect

### void PdfPage::GetCropBox (1 PdfRect * *crop_box*) [pure virtual]

Gets the crop box for a page. The crop box is the region of the page to display and print.

**Parameters:**

| | |
|---|---|
| *crop_box* | (filled by the method) Pointer to a rectangle specifying the page's crop box, specified in user space coordinates. |

### void PdfPage::GetDefaultMatrix (1 PdfMatrix * *matrix*) [pure virtual]

Gets the matrix that transforms user space coordinates to rotated and cropped coordinates. The origin of this space is the bottom - left of the rotated, cropped page. Y is increasing.

**Parameters:**

| | |
|---|---|
| *matrix* | (filled by the method) Pointer to the default transformation matrix. |

### void PdfPage::GetMediaBox (1 PdfRect * *media_box*) [pure virtual]

Gets the media box for a page. The media box is the 'natural size' of the page, for example, the dimensions of an A4 sheet of paper.

**Parameters:**

| | |
|---|---|
| *media_box* | (filled by the method) Pointer to a rectangle specifying the page's media box, specified in user space coordinates. |

### int PdfPage::GetNumAnnots () [pure virtual]

Gets the number of annotations on a page. Annotations associated with pop-up windows (such as strikeouts) are counted as two annotations. Widget annotations(form fields) are included in the count.

**Returns:**

The number of annotations on a page.

**See also:**

PdfPage::GetAnnot

### int PdfPage::GetNumAnnotsAtPoint (PdfPoint * *point*) [pure virtual]

Gets the number of annotations that reside under the given point.

**Parameters:**

| | |
|---|---|
| *point* | The point to test. |

**Returns:**

Number of annotations under the given point.

**See also:**

PdfPage::GetAnnotAtPoint

## int PdfPage::GetNumAnnotsAtRect (PdfRect * *rect*) [pure virtual]

Gets the number of annotations that reside under the given rectangle. It returns each annotation that have intersection the given rectangle.

**Parameters:**

| | |
|---|---|
| *rect* | The rectangle to test. |

**Returns:**

Number of annotations under the given rectangle.

**See also:**

PdfPage::GetAnnotAtPoint

### int PdfPage::GetNumber () [pure virtual]

Gets the page number for the specified page.

**Returns:**

The page within the document. The first page is 0.

### PdfRotate PdfPage::GetRotate () [pure virtual]

Gets the rotation value for a page.

**Returns:**

Rotation value for the given page. Must be one of the PdfRotate values.

**See also:**

PdfRotate

### bool PdfPage::ReleasePageMap () [pure virtual]

Releases the pagemap resources at the current page. NOTE: The caller can call ReleasePageMap to optimize a memory handling. Otherwise the page is responsible for freeing PdePageMap resources.

**Returns:**

true if succeeded, false otherwise.

**See also:**

PdfPage::AcquirePageMap

### bool PdfPage::ReleasePageView (PdfPageView * *page_view*) [pure virtual]

Releases the page view resources. NOTE: The caller can call ReleasePageView to optimize a memory handling. Otherwise the page is responsible for freeing PdfPageViews resources.

**Parameters:**

| | |
|---|---|
| *page_view* | The page view to delete. |

**Returns:**

true if succeeded, false if page view with specific params was not found.

**See also:**

PdfPage::AcquirePageView

### bool PdfPage::RemoveAnnot (int *index*, PdfRemoveAnnotFlags *flags*) `[pure virtual]`

Removes an annotation from the specified page. Annotations are stored in arrays, which are automatically compressed when an annotation is removed. For this reason, if you use a loop in which you remove annotations, structure the code so the loop processes from the highest to the lowest index.

**Parameters:**

| | |
|---|---|
| *index* | The index of annotation to remove. |
| *flags* | PdfRemoveAnnotFlags to specify what other connected annotations will be removed. |

**Returns:**

true if annotation was removed, false otherwise.

**See also:**

PdfPage::GetNumAnnots

---

# PdfPageView Struct Reference

PdfPageView class.

## Public Member Functions

- int GetDeviceWidth ()=0
  *Returns a width of the page view in device space coordinates.*
- int GetDeviceHeight ()=0
  *Returns a height of the page view in device space coordinates.*
- void GetDeviceMatrix (1 PdfMatrix *matrix)=0
  *Gets the matrix that transforms user space coordinates to pageview coordinates.*
- bool DrawPage (PdfPageRenderParams *params, 1 PdfCancelProc cancel_proc, void *cancel_data)=0
- PdfImage * GetImage ()=0
- void RectToDevice (PdfRect *rect, 1 PdfDevRect *dev_rect)=0
- void PointToDevice (PdfPoint *point, 1 PdfDevPoint *dev_point)=0
  *Transforms a point's coordinates from user space to device space.*

---

# Detailed Description

PdfPageView class.
A PdfPageView has methods to display the contents of a document page.

---

# Member Function Documentation

### bool PdfPageView::DrawPage (PdfPageRenderParams * *params*, 1 PdfCancelProc *cancel_proc*, void * *cancel_data*) [pure virtual]

Draws the contents of a page into the page view PdfImage. This method just draws a bitmap. Provides control over the rendering with respect to PdfPageRenderParams. The PdfImage remains in the cache as the page view class exists or next PdfPageViewDrawPage method is called.

**Parameters:**

| | |
|---|---|
| *params* | Rendering parameters. |
| *cancel_proc* | Callback to check for canceling operations. A CancelProc is typically passed to some method that takes a long time to complete. At frequent intervals, the method calls the CancelProc. If it returns true, then the method cancels its operation; if false, it continues. |
| *cancel_data* | Pointer to client data for the cancel procedure. |

**Returns:**

true if page was rendered, false otherwise.

**See also:**

PdfPageView::GetImage

### int PdfPageView::GetDeviceHeight () [pure virtual]

Returns a height of the page view in device space coordinates.

**Returns:**

A page view height.

**See also:**

PdfPageView::GetDeviceWidth

### void PdfPageView::GetDeviceMatrix (1 PdfMatrix * *matrix*) [pure virtual]

Gets the matrix that transforms user space coordinates to pageview coordinates.

**Parameters:**

| | |
|---|---|
| *matrix* | (filled by the method) Pointer to the pageview matrix. |

## int PdfPageView::GetDeviceWidth () [pure virtual]

Returns a width of the page view in device space coordinates.

**Returns:**

A page view width.

**See also:**

PdfPageView::GetDeviceHeight

## PdfImage* PdfPageView::GetImage () [pure virtual]

Gets the image data for a page view. You should never depend on these objects lasting the lifetime of the document. You should extract the information you need from the object immediately and refer to it no further in your code. NOTE: Do not destroy the returned PdfImage when done with it.

**Returns:**

Acquired Image data for page view. Returns null if there are no image data.

**See also:**

PdfPageView::DrawPage

## void PdfPageView::PointToDevice (PdfPoint * *point*, 1 PdfDevPoint * *dev_point*) [pure virtual]

Transforms a point's coordinates from user space to device space.

**Parameters:**

| | |
|---|---|
| *point* | Pointer to the point whose coordinates are transformed, specified in user space coordinates. |
| *dev_point* | (filled by the method) Pointer to a point containing the device space coordinates corresponding to point. |

**See also:**

PdfPageView::RectToDevice

## void PdfPageView::RectToDevice (PdfRect * *rect*, 1 PdfDevRect * *dev_rect*) [pure virtual]

Transforms a rectangle's coordinates from user space to device space. The resulting AVRect will be normalized, that is, left < right and top < bottom.

**Parameters:**

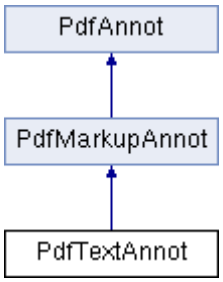
| | |
|---|---|
| *rect* | Pointer to the rectangle whose coordinates are transformed, specified in user space coordinates. |
| *dev_rect* | (filled by the method) Pointer to a rectangle containing the device space coordinates corresponding to rect. |

**See also:**

PdfPageView::PointToDevice

# PdfTextAnnot Struct Reference

PdfTextAnnot class.
Inheritance diagram for PdfTextAnnot:



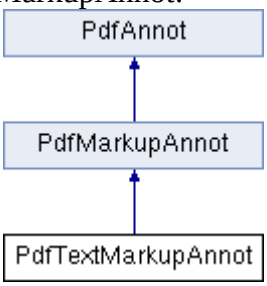

## Additional Inherited Members

## Detailed Description

PdfTextAnnot class.
A text annotation represents a 'sticky note' attached to a point in the PDF document. When closed, the annotation appears as an icon; when open, it displays a pop-up window containing the text of the note in a font and size chosen by the viewer application. Text annotations do not scale and rotate with the page.

# PdfTextMarkupAnnot Struct Reference

PdfTextMarkupAnnot class.
Inheritance diagram for PdfTextMarkupAnnot:




## Public Member Functions

- int GetNumQuads ()=0
  *Gets the number of quads for the annotation.*
- void GetQuad (int index, 1 PdfQuad *quad)=0
- bool AddQuad (PdfQuad *quad)=0
  *Adds a new quad to the text markup annot.*
- bool RemoveQuad (int index)=0

*Removes a quad with the specified index.*

---

# Detailed Description

PdfTextMarkupAnnot class.
Text markup annotations appear as highlights, underlines, strikeouts, or jagged ('squiggly') underlines in the text of a document.

---

# Member Function Documentation

## bool PdfTextMarkupAnnot::AddQuad (PdfQuad * *quad*) [pure virtual]

Adds a new quad to the text markup annot.

**Parameters:**

| | |
|---|---|
| *quad* | Pointer to PdfQuad to add. |

**Returns:**

true if quad was added sucessfully, false otherwise.

**See also:**

PdfTextMarkupAnnot::GetNumQuads

## int PdfTextMarkupAnnot::GetNumQuads () [pure virtual]

Gets the number of quads for the annotation.

**Returns:**

Number of quads.

**See also:**

PdfTextMarkupAnnot::GetQuad

## void PdfTextMarkupAnnot::GetQuad (int *index*, 1 PdfQuad * *quad*) [pure virtual]

Gets the requested quad. The coordinates of the quadrilaterals are in default user space that comprise the region in which the annotation should be activated.

**Parameters:**

| | |
|---|---|
| *index* | Index of an annotation quad to retrieve. |
| *quad* | (filled by the method) Pointer to PdfQuad structure to fill. |

**See also:**

PdfTextMarkupAnnot::GetNumQuads

### bool PdfTextMarkupAnnot::RemoveQuad (int *index*) [pure virtual]

Removes a quad with the specified index.

**Parameters:**

| | |
|---|---|
| *index* | The index of the quad to remove. |

**Returns:**

true if quad was removed, false otherwise.

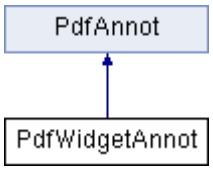
**See also:**

PdfTextMarkupAnnot::GetNumQuads

---

# PdfWidgetAnnot Struct Reference

PdfWidgetAnnot class.
Inheritance diagram for PdfWidgetAnnot:




## Public Member Functions

- int GetCaption (1 wchar_t *buffer, int len)=0
  *Gets an annotation's caption.*
- int GetFontName (1 wchar_t *buffer, int len)=0
  *Gets an annotation's font name used for the annotation's appearance.*
- PdfAction * GetAction ()=0
  *Gets an annotation's action object.*
- PdfAction * GetAAction (PdfActionEventType event)=0
  *Gets an annotation's additional action object.*
- PdfFormField * GetFormField ()=0
  *Gets a PdfFormField object related to the annotation. Valid only for Widget annotation.*

---

# Detailed Description

PdfWidgetAnnot class.
Interactive forms use widget annotations to represent the appearance of fields and to manage user interactions.

---

# Member Function Documentation

## PdfAction* PdfWidgetAnnot::GetAAction (PdfActionEventType *event*) [pure virtual]

Gets an annotation's additional action object.

**Parameters:**

| | |
|---|---|
| *event* | The eventwhich additional action to get. |

**Returns:**

The annotation's additional action object or nullptr if annotation does not have an action for specified event type.

**See also:**

PdfWidgetAnnot::GetAction

## PdfAction* PdfWidgetAnnot::GetAction () [pure virtual]

Gets an annotation's action object.

**Returns:**

The annotation's action object or nullptr if annotation does not have an action.

**See also:**

PdfWidgetAnnot::GetAAction

## int PdfWidgetAnnot::GetCaption (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets an annotation's caption.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

### int PdfWidgetAnnot::GetFontName (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets an annotation's font name used for the annotation's appearance.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of string. |
| *len* | Length of a buffer to be filled in. |

**Returns:**

Number of characters written into buffer of required length.

### PdfFormField* PdfWidgetAnnot::GetFormField () [pure virtual]

Gets a PdfFormField object related to the annotation. Valid only for Widget annotation.

**Returns:**

The PdfFormField object or nullptr if no such form field field object exists.

---

# PsRegex Struct Reference

PsRegex class.

## Public Member Functions

- void Destroy ()=0
  *Destroys PsRegex resources.*
- bool SetPattern (const wchar_t *pattern)=0
  *Sets a regular expression to search for.*
- bool Search (const wchar_t *text, int position)=0
  *Searches for a match in a string. Use positions parameter to find more patterns.*
- int GetText (1 wchar_t *buffer, int len)=0
  *Gets a buffer containing the matched text if it finds a match, otherwise it returns 0.*
- int GetPosition ()=0
- int GetLength ()=0
  *Gets a length of the matched text.*

---

# Detailed Description

PsRegex class.
A regular expression is an object that describes a pattern of characters. Regular expressions are used to perform pattern-matching functions on text. It helps to recognize a logical structure in a document. NOTE: Use Perl Regular Expression Syntax to create a new pattern.

---

# Member Function Documentation

## void PsRegex::Destroy () [pure virtual]

Destroys PsRegex resources.

**See also:**

PsRegex::CreatePsRegex

## int PsRegex::GetLength () [pure virtual]

Gets a length of the matched text.

**Returns:**

Length of the matched text, otherwise it returns 0.

## int PsRegex::GetPosition () [pure virtual]

Gets a position of the matched text from the start position defined in PsRegex::Search method. NOTE: It's not a position from text buffer beginning.

**Returns:**

Position of the matched text, otherwise it returns -1.

## int PsRegex::GetText (1 wchar_t * *buffer*, int *len*) [pure virtual]

Gets a buffer containing the matched text if it finds a match, otherwise it returns 0.

**Parameters:**

| | |
|---|---|
| *buffer* | (filled by method) If the buffer is null function returns required length of the buffer. |
| *len* | Length of the buffer to be filled in. |

**Returns:**

Number of characters written into the buffer of required length.

### bool PsRegex::Search (const wchar_t * *text*, int *position*) [pure virtual]

Searches for a match in a string. Use positions parameter to find more patterns.

**Parameters:**

| | |
|---|---|
| *text* | The string to be searched. |
| *position* | A position in the text where to start search. |

**Returns:**

This method returns true if it finds a match, otherwise it returns false.

### bool PsRegex::SetPattern (const wchar_t * *pattern*) [pure virtual]

Sets a regular expression to search for.

**Parameters:**

| | |
|---|---|
| *pattern* | The Regular expression. |

**Returns:**

true if pattern was set, false otherwise.

**See also:**

CPsRegex::AddPatternType, CPsRegex::Search

---

# PsStream Struct Reference

PsStream class.

## Public Member Functions

- void Destroy ()=0
  *Destroys PsStream resources.*
- int Write (unsigned char *buffer, int size)=0
  *Writes data from a memory buffer into a stream, beginning at the current seek position.*
- int GetEof ()=0
  *Gets the current size of a stream.*
- int Read (unsigned char *buffer, int size)=0
  *Reads data from PsStream into memory.*
- int GetPos ()=0
- bool SetPos (int pos)=0

# Detailed Description

PsStream class.
A PsStream is a data stream that may be a buffer in memory, a file, or an arbitrary user-written procedure. You typically would use an PsStream to import/export data to/from/ a PDF file. PsStream methods allow you to open and close streams, and to read and write data.

# Member Function Documentation

## void PsStream::Destroy () [pure virtual]

Destroys PsStream resources.

**See also:**

PsRegex::CreatePsStream

## int PsStream::GetEof () [pure virtual]

Gets the current size of a stream.

**Returns:**

The size of the stream.

**See also:**

PsStream::Read

## int PsStream::GetPos () [pure virtual]

Gets the current seek position in a file. This is the position at which the next read or write will begin.

**Returns:**

The current seek position.

## int PsStream::Read (unsigned char * *buffer*, int *size*) [pure virtual]

Reads data from PsStream into memory.

**Parameters:**

| | |
|---|---|
| *buffer* | (Filled by the method) A buffer into which data is written. The buffer must be able to hold at least 'size' bytes. |
| *size* | The number of bytes to read. |

**Returns:**

The number of bytes actually read from the stream.

## bool PsStream::SetPos (int *pos*) [pure virtual]

Seeks to the specified position in a stream. This is the position at which the next read or write will begin.

**Parameters:**

| | |
|---|---|
| *pos* | The position to seek. |

## int PsStream::Write (unsigned char * *buffer*, int *size*) [pure virtual]

Writes data from a memory buffer into a stream, beginning at the current seek position.

**Parameters:**

| | |
|---|---|
| *buffer* | A buffer holding the data that is to be written. The buffer must be able to hold at least count bytes. |
| *size* | The number of bytes to write. |

**Returns:**

The number of bytes actually written to the stream.

**See also:**

PsStream::Destroy