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# PDFView Class Reference

[Graphics & Imaging](#) > [Cocoa](#)



2007-12-11



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# PDFView Class Reference

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<b>Inherits from</b>	NSView : NSResponder : NSObject
<b>Conforms to</b>	NSAnimatablePropertyContainer (NSView) NSCoding (NSResponder) NSObject (NSObject)
<b>Framework</b>	Library/Frameworks/Quartz.framework/Frameworks/PDFKit.framework
<b>Availability</b>	Available in Mac OS X v10.4 and later.
<b>Declared in</b>	PDFView.h

## Overview

A `PDFView` object encapsulates the functionality of PDF Kit into a single widget that you can add to your application using Interface Builder.

`PDFView` may be the only class you need to deal with for adding PDF functionality to your application. It lets you display PDF data and allows users to select content, navigate through a document, set zoom level, and copy textual content to the Pasteboard. `PDFView` also keeps track of page history.

You can subclass `PDFView` to create a custom PDF viewer.

You can also create a custom PDF viewer by using the PDF Kit utility classes directly and not using `PDFView` at all.

## Tasks

### Associating a Document with a View

- [document](#) (page 22)  
Returns the document associated with a `PDFView` object.
- [setDocument:](#) (page 35)  
Associates a document with a `PDFView` object.

## Navigating Within a Document

- `canGoBack` (page 14)  
Returns a Boolean value indicating whether the user can navigate to the previous page in the page history.
- `canGoForward` (page 15)  
Returns a Boolean value indicating whether the user can navigate to the next page in the page history.
- `canGoToFirstPage` (page 15)  
Returns a Boolean value indicating whether the user can navigate to the first page of the document.
- `canGoToLastPage` (page 15)  
Returns a Boolean value indicating whether the user can navigate to the last page of the document.
- `canGoToNextPage` (page 16)  
Returns a Boolean value indicating whether the user can navigate to the next page of the document.
- `canGoToPreviousPage` (page 16)  
Returns a Boolean value indicating whether the user can navigate to the previous page of the document.
- `currentPage` (page 20)  
Returns the current page.
- `currentDestination` (page 19)  
Returns a `PDFDestination` object representing the current page and the current point in the view specified in page space.
- `goBack:` (page 24)  
Navigates back one step in the page history.
- `goForward:` (page 24)  
Navigates forward one step in the page history.
- `goToFirstPage:` (page 25)  
Navigates to the first page of the document.
- `goToLastPage:` (page 25)  
Navigates to the last page of the document.
- `goToNextPage:` (page 25)  
Navigates to the next page of the document.
- `goToPreviousPage:` (page 26)  
Navigates to the previous page of the document.
- `goToPage:` (page 26)  
Scrolls to the specified page.
- `goToDestination:` (page 24)  
Navigates to the specified destination.
- `goToSelection:` (page 27)  
Scrolls to the first character of the specified selection.
- `goToRect:onPage:` (page 26)  
Navigates to the specified rectangle on the specified page.



## Working with Display Modes and Characteristics

- `setDisplayMode:` (page 34)  
Sets the display mode for the view.
- `displayMode` (page 21)  
Returns the current display mode.
- `setDisplayPageBreaks:` (page 34)  
Toggles the display of page breaks.
- `displaysPageBreaks` (page 22)  
Returns a Boolean value indicating whether the view is displaying page breaks.
- `setDisplayBox:` (page 33)  
Specifies the box to display and to clip to.
- `displayBox` (page 21)  
Returns the current style of display box.
- `displaysAsBook` (page 22)  
Returns a Boolean value indicating whether the view will display the first page as a book cover (meaningful only when the document is in two-up or two-up continuous display mode).
- `setDisplayAsBook:` (page 34)  
Specifies whether the view should treat the document's first page as a book cover.
- `setShouldAntiAlias:` (page 36)  
Specifies whether to use anti-aliasing in the view.
- `shouldAntiAlias` (page 36)  
Returns a Boolean value indicating whether the view is anti-aliased.
- `setGreekingThreshold:` (page 35)  
Sets the greeking threshold to use for displaying text.
- `greekingThreshold` (page 27)  
Returns the current greeking threshold for the view.
- `takeBackgroundColorFrom:` (page 37)  
Sets the view's background color to the specified color.
- `setBackgroundColor:` (page 31)  
Sets the view's background color.
- `backgroundColor` (page 14)  
Returns the view's background color.

## Setting the Delegate

- `setDelegate:` (page 33)  
Sets a delegate for the view.
- `delegate` (page 21)  
Returns the view's delegate.

## Scaling the View

- [setScaleFactor:](#) (page 36)  
Sets the scale factor for the view.
- [scaleFactor](#) (page 30)  
Returns the current scale factor for the view.
- [zoomIn:](#) (page 38)  
Zooms in by increasing the scaling factor.
- [canZoomIn](#) (page 16)  
Returns a Boolean value indicating whether the user can magnify the view—that is, zoom in.
- [zoomOut:](#) (page 38)  
Zooms out by decreasing the scaling factor.
- [canZoomOut](#) (page 17)  
Returns a Boolean value indicating whether the user can view an expanded area—that is, zoom out.
- [setAutoScales:](#) (page 31)  
Toggles whether the scaling factor applied to a view automatically responds to resizing.
- [autoScales](#) (page 14)  
Returns a Boolean value indicating whether autoscaling is set.

## Working with Mouse Position and Events

- [areaOfInterestForMouse:](#) (page 13)  
Returns the type of area the mouse cursor is over.
- [setCursorForAreaOfInterest:](#) (page 33)  
Sets the type of mouse cursor according to the type of area the mouse cursor is over.
- [performAction:](#) (page 28)  
Performs the specified action.

## Handling Selections

- [currentSelection](#) (page 20)  
Returns the current selection.
- [setCurrentSelection:](#) (page 32)  
Sets the selection.
- [selectAll:](#) (page 30)  
Selects all text in the document.
- [clearSelection](#) (page 17)  
Clears the selection.
- [copy:](#) (page 19)  
Copies the text in the selection, if any, to the Pasteboard.
- [scrollSelectionToVisible:](#) (page 30)  
Scrolls the view until the selection is visible.

- [setCurrentSelection:animate:](#) (page 32)  
Sets the selection, in an animated way, if desired.
- [setHighlightedSelections:](#) (page 35)  
Highlights the specified array of selections.
- [highlightedSelections](#) (page 27)  
Returns the array of selections that are highlighted using `setHighlightedSelections`.

## Setting the Password

- [takePasswordFrom:](#) (page 37)  
A convenience method that calls - `[[self document] setPassword:]` with the password from the specified sender.

## Rendering the View and Printing

- [drawPage:](#) (page 23)  
For use by subclasses of `PDFView` for custom rendering of pages.
- [drawPagePost:](#) (page 23)  
For use by subclasses of `PDFView` for post-page rendering.
- [printWithInfo:autoRotate:](#) (page 29)  
Prints the document with the specified printer information.
- [printWithInfo:autoRotate:pageScaling:](#) (page 29)  
Prints the document with the specified printer and page-scaling information.

## Conversion Methods for Subclasses

- [pageForPoint:nearest:](#) (page 28)  
Returns the page containing a point specified in view coordinates.
- [convertPoint:toPage:](#) (page 18)  
Converts a point from view space to page space.
- [convertRect:toPage:](#) (page 19)  
Converts a rectangle from view space to page space.
- [convertPoint:fromPage:](#) (page 18)  
Converts a point from page space to view space.
- [convertRect:fromPage:](#) (page 18)  
Converts a rectangle from page space to view space.

## Miscellaneous Methods

- [documentView](#) (page 23)  
Returns the innermost view used by `PDFView` or by your `PDFView` subclass.
- [rowSizeForPage:](#) (page 29)  
Returns the size needed to display a row of the current document page.

- [layoutDocumentView](#) (page 28)  
Performs layout of the inner views.
- [allowsDragging](#) (page 13)  
Determines whether the view can accept new PDF documents dragged into it by the user.
- [setAllowsDragging:](#) (page 31)  
Specifies whether the view can accept drags.
- [visiblePages](#) (page 37)  
Returns an array of `PDFPage` objects that represent the currently visible pages.
- [annotationsChangedOnPage:](#) (page 13)  
Tells the PDF view that an annotation on the specified page has changed.

## Managing Scale Factor

- [PDFViewWillChangeScaleFactor:toScale:](#) (page 40) *delegate method*  
Delegate method for overriding changes to scale factor.

## Handling URL Links

- [PDFViewWillClickOnLink:withURL:](#) (page 41) *delegate method*  
Delegate method for handling clicks on URL links in a view.

## Responding to Annotation Actions

- [PDFViewPerformFind:](#) (page 39) *delegate method*  
Delegate method that performs a find operation.
- [PDFViewPerformGoToPage:](#) (page 39) *delegate method*  
Delegate method that performs a go-to operation.
- [PDFViewPerformPrint:](#) (page 40) *delegate method*  
Delegate method that prints the current document.
- [PDFViewOpenPDF:forRemoteGoToAction:](#) (page 38) *delegate method*  
Delegate method that opens a specified page.

## Changing the Print Job Title

- [PDFViewPrintJobTitle:](#) (page 40) *delegate method*  
Delegate method that overrides the job title used when the `PDFView` is printed.

## Instance Methods

### allowsDragging

Determines whether the view can accept new PDF documents dragged into it by the user.

- (BOOL)allowsDragging

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [setAllowsDragging:](#) (page 31)

#### Declared In

PDFView.h

### annotationsChangedOnPage:

Tells the PDF view that an annotation on the specified page has changed.

- (void)annotationsChangedOnPage:(PDFPage \*)page

#### Discussion

When the `PDFView` object receives this message, it rescans for tool tips and pop-ups and informs the `PDFThumbnailView` objects so the thumbnail images can be redrawn.

#### Availability

Available in Mac OS X v10.5 and later.

#### Declared In

PDFView.h

### areaOfInterestForMouse:

Returns the type of area the mouse cursor is over.

- (PDFAreaOfInterest)areaOfInterestForMouse:(NSEvent \*)theEvent

#### Discussion

The `PDFAreaOfInterest` enumeration defines the various area types. This method is for custom subclasses of the `PDFView` class. Use it if you override the `NSResponder` class's `mouseMoved:` method or related methods.

Refer to “[Constants](#)” (page 41) for the various values of the area-of-interest constants. Each of these constants contributes to the value of the `PDFAreaOfInterest` bit field.

#### Availability

Available in Mac OS X v10.4 and later.

**See Also**

- [setCursorForAreaOfInterest:](#) (page 33)

**Declared In**

PDFView.h

**autoScales**

Returns a Boolean value indicating whether autoscaling is set.

- (BOOL)autoScales

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setAutoScales:](#) (page 31)

**Declared In**

PDFView.h

**backgroundColor**

Returns the view's background color.

- (NSColor \*)backgroundColor

**Discussion**

A view's background is the area displayed to either side of a PDF document's pages. The background also appears between pages when page breaks are enabled. The default color is a 50% gray.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [takeBackgroundColorFrom:](#) (page 37)

- [setBackgroundColor:](#) (page 31)

**Declared In**

PDFView.h

**canGoBack**

Returns a Boolean value indicating whether the user can navigate to the previous page in the page history.

- (BOOL)canGoBack

**Discussion**

The page history gets built as your application calls navigation methods such as [goToDestination:](#) (page 24) and [goToLastPage:](#) (page 25).

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [goBack](#): (page 24)

### Declared In

PDFView.h

## canGoForward

Returns a Boolean value indicating whether the user can navigate to the next page in the page history.

- (BOOL)canGoForward

### Discussion

The page history gets built as your application calls navigation methods such as [goToDestination](#): (page 24) and [goToLastPage](#): (page 25).

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [goForward](#): (page 24)

### Declared In

PDFView.h

## canGoToFirstPage

Returns a Boolean value indicating whether the user can navigate to the first page of the document.

- (BOOL)canGoToFirstPage

### Discussion

The return value will be YES unless the view is already displaying the first page.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [goToFirstPage](#): (page 25)

### Declared In

PDFView.h

## canGoToLastPage

Returns a Boolean value indicating whether the user can navigate to the last page of the document.

- (BOOL)canGoToLastPage

### Discussion

The return value will be YES unless the view is already displaying the last page.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [goToLastPage:](#) (page 25)

### Declared In

PDFView.h

## canGoToNextPage

Returns a Boolean value indicating whether the user can navigate to the next page of the document.

- (BOOL)canGoToNextPage

### Discussion

The return value will be YES unless the view is displaying the last page.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [goToNextPage:](#) (page 25)

### Declared In

PDFView.h

## canGoToPreviousPage

Returns a Boolean value indicating whether the user can navigate to the previous page of the document.

- (BOOL)canGoToPreviousPage

### Discussion

The return value will be YES unless the view is displaying the first page.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [canGoToPreviousPage](#) (page 16)

### Declared In

PDFView.h

## canZoomIn

Returns a Boolean value indicating whether the user can magnify the view—that is, zoom in.



- (BOOL)canZoomIn

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [zoomIn:](#) (page 38)
- [zoomOut:](#) (page 38)
- [canZoomOut](#) (page 17)

**Declared In**

PDFView.h

## canZoomOut

Returns a Boolean value indicating whether the user can view an expanded area—that is, zoom out.

- (BOOL)canZoomOut

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [zoomIn:](#) (page 38)
- [canZoomIn](#) (page 16)
- [zoomOut:](#) (page 38)

**Declared In**

PDFView.h

## clearSelection

Clears the selection.

- (void)clearSelection

**Discussion**

The view redraws as necessary but does not scroll. This call is equivalent to calling `[PDFView setCurrentSelection:NULL]`.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [currentSelection](#) (page 20),
- [setCurrentSelection:](#) (page 32)

**Declared In**

PDFView.h

## convertPoint:fromPage:

Converts a point from page space to view space.

```
- (NSPoint)convertPoint:(NSPoint)point fromPage:(PDFPage *)page
```

### Discussion

Page space is a 72 dpi coordinate system with the origin at the lower-left corner of the current page. View space is a coordinate system with the origin at the lower-left corner of the current PDF view.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [convertPoint:toPage:](#) (page 18)
- [convertRect:toPage:](#) (page 19)
- [convertRect:fromPage:](#) (page 18)
- [pageForPoint:nearest:](#) (page 28)

### Declared In

PDFView.h

## convertPoint:toPage:

Converts a point from view space to page space.

```
- (NSPoint)convertPoint:(NSPoint)point toPage:(PDFPage *)page
```

### Discussion

Page space is a 72 dpi coordinate system with the origin at the lower-left corner of the current page. View space is a coordinate system with the origin at the lower-left corner of the current PDF view.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [convertRect:toPage:](#) (page 19)
- [convertPoint:fromPage:](#) (page 18)
- [convertRect:fromPage:](#) (page 18)

### Declared In

PDFView.h

## convertRect:fromPage:

Converts a rectangle from page space to view space.

```
- (NSRect)convertRect:(NSRect)rect fromPage:(PDFPage *)page
```

### Discussion

Page space is a 72 dpi coordinate system with the origin at the lower-left corner of the current page. View space is a coordinate system with the origin at the lower-left corner of the current PDF view.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [convertPoint:toPage:](#) (page 18)
- [convertRect:toPage:](#) (page 19)
- [convertPoint:fromPage:](#) (page 18)

**Declared In**

PDFView.h

**convertRect:toPage:**

Converts a rectangle from view space to page space.

```
- (NSRect)convertRect:(NSRect)rect toPage:(PDFPage *)page
```

**Discussion**

Page space is a 72 dpi coordinate system with the origin at the lower-left corner of the current page. View space is a coordinate system with the origin at the lower-left corner of the current PDF view.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [convertPoint:toPage:](#) (page 18)
- [convertPoint:fromPage:](#) (page 18)
- [convertRect:fromPage:](#) (page 18)

**Declared In**

PDFView.h

**copy:**

Copies the text in the selection, if any, to the Pasteboard.

```
- (void)copy:(id)sender
```

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [currentSelection](#) (page 20)

**Declared In**

PDFView.h

**currentDestination**

Returns a `PDFDestination` object representing the current page and the current point in the view specified in page space.

- ([PDFDestination](#) \*)currentDestination

#### Discussion

Page space is a 72 dpi coordinate system with the origin at the lower-left corner of the current page.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [currentPage](#) (page 20)
- [goToDestination:](#) (page 24) ([PDFDestination](#))

#### Declared In

PDFView.h

## currentPage

Returns the current page.

- ([PDFPage](#) \*)currentPage

#### Discussion

When there are two pages in the view in a two-up mode, “current page” is the left page. For continuous modes, returns the page crossing a horizontal line halfway between the view’s top and bottom bounds.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [currentDestination](#) (page 19)
- [goToDestination:](#) (page 24)

#### Declared In

PDFView.h

## currentSelection

Returns the current selection.

- ([PDFSelection](#) \*)currentSelection

#### Discussion

Returns NULL if no selection exists.

Note that this method returns the actual instance of the current [PDFSelection](#) object. Therefore, if you want to modify it, you should make a copy of the returned selection and modify that, instead.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [setCurrentSelection:](#) (page 32)
- [clearSelection](#) (page 17)

**Declared In**

PDFView.h

## delegate

Returns the view's delegate.

- (id)delegate

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setDelegate:](#) (page 33)

**Declared In**

PDFView.h

## displayBox

Returns the current style of display box.

- (PDFDisplayBox)displayBox

**Discussion**

The available values for display boxes are defined in the Constants section in the PDFPage class.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setDisplayBox:](#) (page 33)

**Declared In**

PDFView.h

## displayMode

Returns the current display mode.

- (PDFDisplayMode)displayMode

**Discussion**

See “[Constants](#)” (page 41) for possible values.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setDisplayMode:](#) (page 34)

**Declared In**

PDFView.h

## displaysAsBook

Returns a Boolean value indicating whether the view will display the first page as a book cover (meaningful only when the document is in two-up or two-up continuous display mode).

- (BOOL)displaysAsBook

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setDisplayAsBook:](#) (page 34)

**Declared In**

PDFView.h

## displaysPageBreaks

Returns a Boolean value indicating whether the view is displaying page breaks.

- (BOOL)displaysPageBreaks

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setDisplayPageBreaks:](#) (page 34)

**Declared In**

PDFView.h

## document

Returns the document associated with a PDFView object.

- (PDFDocument \*)document

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setDocument:](#) (page 35)

**Declared In**

PDFView.h

## documentView

Returns the innermost view used by `PDFView` or by your `PDFView` subclass.

```
- (NSView *)documentView
```

### Discussion

The innermost view is the one displaying the visible document pages. This method is useful when converting coordinates from one view to another.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [layoutDocumentView](#) (page 28)

### Declared In

PDFView.h

## drawPage:

For use by subclasses of `PDFView` for custom rendering of pages.

```
- (void)drawPage:(PDFPage *)page
```

### Discussion

Do not invoke this method, except by invoking it on `super` from a subclass.

The `PDFView` class calls `drawPage:` (page 23) as necessary for each visible page that requires rendering. In the `PDFView` class, this method erases *page* to white, calls `[page drawInRect: pageRect withBox: [self displayBox]]`, and then draws the selection, if any.

You can override this method to draw on top of a PDF page or to control how pages are drawn. In these cases, invoke this method on `super` and then perform custom drawing on top of the PDF page.

### Availability

Available in Mac OS X v10.4 and later.

### Declared In

PDFView.h

## drawPagePost:

For use by subclasses of `PDFView` for post-page rendering.

```
- (void)drawPagePost:(PDFPage *)page
```

### Discussion

The default implementation of this method draws the text highlighting (if any) for the page. This method does not apply scaling or rotating to the current context to map to page space; instead, the context is in view-space coordinates (in which the origin is at the lower-left corner of the current PDF view).

### Availability

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

**goBack:**

Navigates back one step in the page history.

- (IBAction)goBack:(id)sender

**Discussion**

The page history gets built as your application calls navigation methods such as [goToDestination:](#) (page 24) and [goToLastPage:](#) (page 25).

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [canGoBack](#) (page 14)

**Declared In**

PDFView.h

**goForward:**

Navigates forward one step in the page history.

- (IBAction)goForward:(id)sender

**Discussion**

The page history gets built as your application calls navigation methods such as [goToDestination:](#) (page 24) and [goToLastPage:](#) (page 25).

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [canGoForward](#) (page 15)

**Declared In**

PDFView.h

**goToDestination:**

Navigates to the specified destination.

- (void)goToDestination:(PDFDestination \*)destination

**Discussion**

Destinations include a page and a point on the page specified in page space.

Page space is a 72 dpi coordinate system with the origin at the lower-left corner of the current page.



### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [currentDestination](#) (page 19) (PDFDestination)
- [currentPage](#) (page 20)

### Declared In

PDFView.h

## goToFirstPage:

Navigates to the first page of the document.

- (IBAction)goToFirstPage:(id)sender

### Discussion

PDF Kit records the move in its page history.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [canGoToFirstPage](#) (page 15)

### Declared In

PDFView.h

## goToLastPage:

Navigates to the last page of the document.

- (IBAction)goToLastPage:(id)sender

### Discussion

PDF Kit records the move in its page history.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [canGoToLastPage](#) (page 15)

### Declared In

PDFView.h

## goToNextPage:

Navigates to the next page of the document.

- (IBAction)goToNextPage:(id)sender

#### Discussion

PDF Kit records the move in its page history.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [canGoToNextPage](#) (page 16)

#### Declared In

PDFView.h

### goToPage:

Scrolls to the specified page.

```
- (void)goToPage:(PDFPage *)page
```

#### Discussion

PDF Kit records the move in its page history.

#### Availability

Available in Mac OS X v10.4 and later.

#### Declared In

PDFView.h

### goToPreviousPage:

Navigates to the previous page of the document.

```
- (IBAction)goToPreviousPage:(id)sender
```

#### Discussion

PDF Kit records the move in its page history.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [canGoToPreviousPage](#) (page 16)

#### Declared In

PDFView.h

### goToRect:onPage:

Navigates to the specified rectangle on the specified page.

```
- (void)goToRect:(NSRect)rect onPage:(PDFPage *)page
```

**Discussion**

If the specified rectangle is already visible, this method does nothing. This allows you to scroll the `PDFView` object to a specific `PDFAnnotation` or `PDFSelection` object, because both of these objects have bounds methods that return an annotation or selection position in page space.

Note that *rect* is specified in page-space coordinates. Page space is a 72 dpi coordinate system with the origin at the lower-left corner of the current page.

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

**goToSelection:**

Scrolls to the first character of the specified selection.

```
- (void)goToSelection:(PDFSelection *)selection
```

**Discussion**

PDF Kit records the move in its page history.

**Availability**

Available in Mac OS X v10.4 and later.

**Declared In**

PDFView.h

**greekThreshold**

Returns the current greeking threshold for the view.

```
- (float)greekThreshold
```

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setGreekThreshold:](#) (page 35)

**Declared In**

PDFView.h

**highlightedSelections**

Returns the array of selections that are highlighted using `setHighlightedSelections`.

```
- (NSArray *)highlightedSelections
```

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [setHighlightedSelections:](#) (page 35)

**Declared In**

PDFView.h

**layoutDocumentView**

Performs layout of the inner views.

- (void)layoutDocumentView

**Discussion**

The `PDFView` actually contains several subviews, such as the document view (where the PDF is actually drawn) and a “matte view” (which may appear as a gray area around the PDF content, depending on the scaling). Changes to the PDF content may require changes to these inner views, so you must call this method explicitly if you use PDF Kit utility classes to add or remove a page, rotate a page, or perform other operations affecting visible layout.

This method is called automatically from `PDFView` methods that affect the visible layout (such as [setDocument:](#) (page 35), [setDisplayBox:](#) (page 33) or [zoomIn:](#) (page 38)).

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [documentView](#) (page 23)

**Declared In**

PDFView.h

**pageForPoint:nearest:**

Returns the page containing a point specified in view coordinates.

- (PDFPage \*)pageForPoint:(NSPoint)point nearest:(BOOL)nearest

**Discussion**

Returns `NULL` if there’s no page at the specified point and `nearest` is set to `NO`.

**Availability**

Available in Mac OS X v10.4 and later.

**Declared In**

PDFView.h

**performAction:**

Performs the specified action.

- (void)performAction:(PDFAction \*)action

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

**printWithInfo:autoRotate:**

Prints the document with the specified printer information.

```
- (void)printWithInfo:(NSPrintInfo *)printInfo autoRotate:(BOOL)doRotate
```

**Discussion**

If *autoRotate* is set to YES, then this method ignores the orientation attribute in the `NSPrintInfo` object and instead chooses the orientation that best fits the page to the paper size. This orientation occurs on a page-by-page basis.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [printWithInfo:autoRotate:pageScaling:](#) (page 29)

**Declared In**

PDFView.h

**printWithInfo:autoRotate:pageScaling:**

Prints the document with the specified printer and page-scaling information.

```
- (void)printWithInfo:(NSPrintInfo *)printInfo autoRotate:(BOOL)doRotate
  pageScaling:(PDFPrintScalingMode)scale
```

**Discussion**

If *pageScaling* is set to `kPDFPrintPageScaleToFit`, each page is scaled up or down to best fit the paper size. If *pageScaling* is set to `kPDFPrintPageScaleDownToFit`, only large pages are scaled down to fit; small pages are not scaled up to fit. Specifying `kPDFPrintPageScaleNone` for *pageScaling* is equivalent to calling [printWithInfo:autoRotate:](#) (page 29). See `PDFDocument` for more information on page-scaling types.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [printWithInfo:autoRotate:](#) (page 29)

**Declared In**

PDFView.h

**rowSizeForPage:**

Returns the size needed to display a row of the current document page.

- (NSSize)rowSizeForPage:(PDFPage \*)page

#### Discussion

The size is dependent on the current scale factor and display attributes.

#### Availability

Available in Mac OS X v10.4 and later.

#### Declared In

PDFView.h

## scaleFactor

Returns the current scale factor for the view.

- (float)scaleFactor

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [setScaleFactor:](#) (page 36)

#### Declared In

PDFView.h

## scrollSelectionToVisible:

Scrolls the view until the selection is visible.

- (void)scrollSelectionToVisible:(id)sender

#### Availability

Available in Mac OS X v10.4 and later.

#### Declared In

PDFView.h

## selectAll:

Selects all text in the document.

- (IBAction)selectAll:(id)sender

#### Availability

Available in Mac OS X v10.4 and later.

#### Declared In

PDFView.h

## setAllowsDragging:

Specifies whether the view can accept drags.

```
- (void)setAllowsDragging:(BOOL)allow
```

### Discussion

If set to YES, the user can drag a new PDF document into the view. The new document is then displayed in the view, and the old document is released.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [allowsDragging](#) (page 13)

### Declared In

PDFView.h

## setAutoScales:

Toggles whether the scaling factor applied to a view automatically responds to resizing.

```
- (void)setAutoScales:(BOOL)newAuto
```

### Discussion

When set to autoscaling, the document scales to fill the PDFView object as the user resizes it.

For the single-page and two-up continuous modes, autoscaling fits the page to the width of the view. For single-page and two-up noncontinuous modes, autoscaling provides best fit, in which the viewed pages are as large as possible while displaying in their entirety within the view.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [autoScales](#) (page 14)

### Declared In

PDFView.h

## setBackground-color:

Sets the view's background color.

```
- (void)setBackgroundColor:(NSColor *)newColor
```

### Discussion

A view's background is the area displayed to either side of a PDF document's pages. The background also appears between pages when page breaks are enabled. The default color is a 50% gray.

### Availability

Available in Mac OS X v10.4 and later.

**See Also**

- [takeBackgroundColorFrom:](#) (page 37)
- [backgroundColor](#) (page 14)

**Declared In**

PDFView.h

**setCurrentSelection:**

Sets the selection.

```
- (void)setCurrentSelection:(PDFSelection *)selection
```

**Discussion**

The view redraws as necessary but does not scroll. If you need to scroll to the current selection, use [scrollSelectionToVisible:](#) (page 30). If you pass `nil` for the selection, this call is equivalent to calling [clearSelection](#) (page 17).

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setCurrentSelection:animate:](#) (page 32)
- [currentSelection](#) (page 20)
- [clearSelection](#) (page 17)

**Declared In**

PDFView.h

**setCurrentSelection:animate:**

Sets the selection, in an animated way, if desired.

```
- (void)setCurrentSelection:(PDFSelection *)selection animate:(BOOL)animate
```

**Discussion**

This method behaves as [setCurrentSelection:](#) (page 32), but with the addition of animation, if *animate* is YES. The animation serves to draw the user's attention to the new selection, which can be useful when implementing search.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [setCurrentSelection:](#) (page 32)
- [clearSelection](#) (page 17)

**Declared In**

PDFView.h



**setCursorForAreaOfInterest:**

Sets the type of mouse cursor according to the type of area the mouse cursor is over.

- (void)setCursorForAreaOfInterest:(PDFAreaOfInterest)*area*

**Discussion**

This method is especially useful for custom subclasses of the `PDFView` class.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [areaOfInterestForMouse:](#) (page 13)

**Declared In**

PDFView.h

**setDelegate:**

Sets a delegate for the view.

- (void)setDelegate:(id)*anObject*

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [delegate](#) (page 21)

**Declared In**

PDFView.h

**setDisplayBox:**

Specifies the box to display and to clip to.

- (void)setDisplayBox:(PDFDisplayBox)*box*

**Discussion**

The values for *box* are defined in the `PDFDisplayBox` enumeration. The default value for this method is `kPDFDisplayBoxCropBox`.

The available values for display boxes are defined in the Constants section in the `PDFPage` class.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [displayBox](#) (page 21)

**Declared In**

PDFView.h

## setDisplayMode:

Sets the display mode for the view.

- (void)setDisplayMode:(PDFDisplayMode)mode

### Discussion

Available display modes are single page, single-page continuous, two-up, and two-up continuous, as defined in “Constants” (page 41).

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [displayMode](#) (page 21)

### Declared In

PDFView.h

## setDisplaysAsBook:

Specifies whether the view should treat the document’s first page as a book cover.

- (void)setDisplaysAsBook:(BOOL)asBook

### Discussion

For two-up modes, a YES value for this method specifies that the first page should be displayed by itself.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [displaysAsBook](#) (page 22)

### Declared In

PDFView.h

## setDisplaysPageBreaks:

Toggles the display of page breaks.

- (void)setDisplaysPageBreaks:(BOOL)breaks

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [displaysPageBreaks](#) (page 22)

### Declared In

PDFView.h

## setDocument:

Associates a document with a PDFView object.

```
- (void)setDocument:(PDFDocument *)document
```

### Discussion

If a document was already associated with the view, it is released first and then *document* is associated with the view.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [document](#) (page 22)

### Declared In

PDFView.h

## setGreekingThreshold:

Sets the greeking threshold to use for displaying text.

```
- (void)setGreekingThreshold:(float)threshold
```

### Discussion

The default threshold is 3.0.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [greekingThreshold](#) (page 27)

### Declared In

PDFView.h

## setHighlightedSelections:

Highlights the specified array of selections.

```
- (void)setHighlightedSelections:(NSArray *)selections
```

### Discussion

Unlike the selections users set (using, for example, [setCurrentSelection:](#) (page 32)), the selections you specify in this method do not go away (that is, appear deselected) when users click elsewhere in the view or document. Instead, to deselect the selections, you must call `[setHighlightedSelections:NULL]` to remove them.

You might use this method to highlight the set of matches from a text search. To prevent the user from confusing their own selections with selections you set using this method, it is recommended that you use a highlight color that is different from the user's default text selection color.

#### Availability

Available in Mac OS X v10.5 and later.

#### See Also

- [highlightedSelections](#) (page 27)

#### Declared In

PDFView.h

### setScaleFactor:

Sets the scale factor for the view.

- (void)setScaleFactor:(float)*scale*

#### Discussion

The default value is 1.0, corresponding to actual size.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [scaleFactor](#) (page 30)

#### Declared In

PDFView.h

### setShouldAntiAlias:

Specifies whether to use anti-aliasing in the view.

- (void)setShouldAntiAlias:(BOOL)*aliasing*

#### Discussion

The default value is YES.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [shouldAntiAlias](#) (page 36)

#### Declared In

PDFView.h

### shouldAntiAlias

Returns a Boolean value indicating whether the view is anti-aliased.

- (BOOL)shouldAntiAlias

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setShouldAntiAlias:](#) (page 36)

**Declared In**

PDFView.h

**takeBackgroundColorFrom:**

Sets the view's background color to the specified color.

- (IBAction)takeBackgroundColorFrom:(id) *sender*

**Discussion**

A view's background is the area displayed to either side of a PDF document's pages. The background also appears between pages when page breaks are enabled. The default color is a 50% gray.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [setBackground-color:](#) (page 31)

- [background-color](#) (page 14)

**Declared In**

PDFView.h

**takePasswordFrom:**

A convenience method that calls - `[[self document] setPassword:]` with the password from the specified sender.

- (void)takePasswordFrom:(id) *sender*

**Availability**

Available in Mac OS X v10.4 and later.

**Declared In**

PDFView.h

**visiblePages**

Returns an array of PDFPage objects that represent the currently visible pages.

- (NSArray \*)visiblePages

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

**zoomIn:**

Zooms in by increasing the scaling factor.

- (IBAction)zoomIn:(id)sender

**Discussion**

Each invocation of `zoomIn` multiplies the scaling factor by the square root of 2.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [canZoomIn](#) (page 16)
- [zoomOut:](#) (page 38)
- [canZoomOut](#) (page 17)

**Declared In**

PDFView.h

**zoomOut:**

Zooms out by decreasing the scaling factor.

- (IBAction)zoomOut:(id)sender

**Discussion**

Each invocation of `zoomOut` divides the scaling factor by the square root of 2.

**Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [zoomIn:](#) (page 38)
- [canZoomIn](#) (page 16)
- [canZoomOut](#) (page 17)

**Declared In**

PDFView.h

## Delegate Methods

**PDFViewOpenPDF:forRemoteGoToAction:**

Delegate method that opens a specified page.

```
- (void)PDFViewOpenPDF:(PDFView *)sender forRemoteGoToAction:(PDFActionRemoteGoTo *)action
```

**Discussion**

A delegate responding to this method is called to handle clicks in an annotation that contains a `PDFActionRemoteGoTo` action. Such an action contains a URL, a page index, and a point. The delegate should open the PDF document specified by the URL and go to the specified page and point. An easy way to do this is to create a `PDFDocument` object with the specified URL and then create a `PDFDestination` object with the specified page and point. Then, you can call [goToDestination:](#) (page 24).

The default implementation of this method beeps.

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

**PDFViewPerformFind:**

Delegate method that performs a find operation.

```
- (void)PDFViewPerformFind:(PDFView *)sender
```

**Discussion**

Some `PDFAction` objects request a PDF viewer application to perform a find operation. A delegate responding to this method is called when users click an annotation with such an action.

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

**PDFViewPerformGoToPage:**

Delegate method that performs a go-to operation.

```
- (void)PDFViewPerformGoToPage:(PDFView *)sender
```

**Discussion**

Some `PDFAction` objects request a PDF viewer application to display a panel that allows users to enter a page number to go to. A delegate responding to this method is called when users click an annotation with such an action.

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

## PDFViewPerformPrint:

Delegate method that prints the current document.

```
- (void)PDFViewPerformPrint:(PDFView *)sender
```

### Discussion

Some `PDFAction` objects request a PDF viewer application to print the current document. A delegate responding to this method is called when users click an annotation with such an action.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

PDFView.h

## PDFViewPrintJobTitle:

Delegate method that overrides the job title used when the `PDFView` is printed.

```
- (NSString *)PDFViewPrintJobTitle:(PDFView *)sender
```

### Discussion

By default, this method uses the string, if any, associated with the “Title” key in the view’s `PDFDocument` attribute dictionary. If there is no such string, this method uses the last path component if the document is URL-based.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

PDFView.h

## PDFViewWillChangeScaleFactor:toScale:

Delegate method for overriding changes to scale factor.

```
- (float)PDFViewWillChangeScaleFactor:(PDFView *)sender toScale:(float)scale
```

### Discussion

By default, the scale factor is restricted to a range between 0.1 and 10.0 inclusive.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [setScaleFactor:](#) (page 36)

### Declared In

PDFView.h



## PDFViewWillClickOnLink:withURL:

Delegate method for handling clicks on URL links in a view.

```
- (void)PDFViewWillClickOnLink:(PDFView *)sender withURL:(NSURL *)url
```

### Discussion

By default, this method calls `[[NSWorkspace sharedWorkspace] openURL:url]`.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

PDFView.h

## Constants

PDF views use the following display mode constants:

Constant	Description
<code>kPDFDisplaySinglePage</code>	The document displays one page at a time horizontally and vertically. Vertical and horizontal scrolling apply only to the current page. Available in Mac OS X v10.4 and later. Declared in <code>PDFView.h</code> .
<code>kPDFDisplaySingle-PageContinuous</code>	The document displays in continuous mode vertically, with single-page width horizontally. Vertical scrolling applies to the entire document. Available in Mac OS X v10.4 and later. Declared in <code>PDFView.h</code> .
<code>kPDFDisplayTwoUp</code>	The document displays two pages side-by-side. Vertical and horizontal scrolling apply only to the pair of displayed pages Available in Mac OS X v10.4 and later. Declared in <code>PDFView.h</code> .
<code>kPDFDisplayTwo-UpContinuous</code>	The document displays in continuous mode vertically and displays two pages side-by-side horizontally. Vertical scrolling applies to the entire document. Available in Mac OS X v10.4 and later. Declared in <code>PDFView.h</code> .

The following constants apply to mouse position over PDF view areas. These constants are components of a bit field and may be combined arbitrarily:

Constant	Description
<code>kPDFNoArea</code>	The mouse is over an undefined area. Available in Mac OS X v10.4 and later. Declared in <code>PDFView.h</code> .

Constant	Description
kPDFPageArea	The mouse is over a page. Available in Mac OS X v10.4 and later. Declared in PDFView.h.
kPDFTextArea	The mouse is over text. Available in Mac OS X v10.4 and later. Declared in PDFView.h.
kPDFAnnotationArea	The mouse is over an annotation. Available in Mac OS X v10.4 and later. Declared in PDFView.h.
kPDFLinkArea	The mouse is over a link. Available in Mac OS X v10.4 and later. Declared in PDFView.h.
kPDFControlArea	The mouse is over a control. Available in Mac OS X v10.4 and later. Declared in PDFView.h.
kPDFTextFieldArea	The mouse is over a text field. Available in Mac OS X v10.4 and later. Declared in PDFView.h.
kPDFIconArea	The mouse is over an icon. Available in Mac OS X v10.5 and later. Declared in PDFView.h.
kPDFPopupArea	The mouse is over a popup menu. Available in Mac OS X v10.4 and later. Declared in PDFView.h.

## Notifications

A PDFView object posts the following notifications:

### PDFViewChangedHistoryNotification

Posted when the page history changes.

The notification object is the PDFView object itself.

#### Availability

Available in Mac OS X v10.4 and later.

#### Declared In

PDFView.h

### **PDFViewDocumentChangedNotification**

Posted when a new document is associated with the view.

The notification object is the `PDFView` object itself.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### **Declared In**

`PDFView.h`

### **PDFViewPageChangedNotification**

Posted when a new page becomes the current page.

The notification object is the `PDFView` object itself.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### **Declared In**

`PDFView.h`

### **PDFViewScaleChangedNotification**

Posted when the scale factor changes.

The notification object is the `PDFView` object itself.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### **Declared In**

`PDFView.h`

### **PDFViewAnnotationHitNotification**

Posted when the user clicks on an annotation.

The notification object is the `PDFView` object itself.

Use the @"PDFAnnotationHit" key to obtain userinfo of type `PDFAnnotation *`.

#### **Availability**

Available in Mac OS X v10.4 and later.

#### **Declared In**

`PDFView.h`

### **PDFViewCopyPermissionNotification**

Posted when the user attempts to copy to the pasteboard without the appropriate permissions.

The notification object is the `PDFView` object itself.

**Availability**

Available in Mac OS X v10.4 and later.

**Declared In**

PDFView.h

**PDFViewPrintPermissionNotification**

Posted when the user attempts to print without the appropriate permissions.

The notification object is the PDFView object itself.

**Availability**

Available in Mac OS X v10.4 and later.

**Declared In**

PDFView.h

**PDFViewAnnotationWillHitNotification**

Posted before the user clicks an annotation.

The notification object is the PDFView object itself.

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

**PDFViewSelectionChangedNotification**

Posted when the current selection has changed.

The notification object is the PDFView object itself.

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

**PDFViewDisplayModeChangedNotification**

Posted when the display mode has changed.

The notification object is the PDFView object itself.

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFView.h

## **PDFViewDisplayBoxChangedNotification**

Posted when the display box has changed.

The notification object is the `PDFView` object itself.

### **Availability**

Available in Mac OS X v10.5 and later.

### **Declared In**

`PDFView.h`



# Document Revision History

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This table describes the changes to *PDFView Class Reference*.

Date	Notes
2007-12-11	Made minor corrections.
2007-10-31	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

## REVISION HISTORY

### Document Revision History



# Index

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## A

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`allowsDragging` instance method 13  
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