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# PDFAnnotationLine Class Reference

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





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# PDFAnnotationLine Class Reference

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<b>Inherits from</b>	PDFAnnotation : NSObject
<b>Conforms to</b>	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>	PDFAnnotationLine.h

## Overview

A `PDFAnnotationLine` object displays a single line on a page.

The `setLineWidth:` and `setStyle:` methods of the annotation's associated `PDFBorder` object determines the stroke thickness and style. The `setColor:` method of the `PDFAnnotation` class determines the stroke color.

## Tasks

### Specifying the Starting and Ending Points

- [startPoint](#) (page 9)  
Returns the starting point for the line.
- [setStartPoint:](#) (page 9)  
Sets the starting point for the line.
- [endPoint](#) (page 6)  
Returns the ending point for the line in page space.
- [setEndPoint:](#) (page 7)  
Sets the ending point for the line.

### Specifying the Line Ending Styles

- [startLineStyle](#) (page 9)  
Returns the line ending style for the starting point of the line.

- [setStartLineStyle:](#) (page 8)  
Sets the line ending style for the starting point of the line.
- [endLineStyle](#) (page 6)  
Returns the line ending style for the ending point of the line.
- [setEndLineStyle:](#) (page 7)  
Sets the line ending style for the ending point of the line.

## Specifying the Color of Line-end Ornaments

- [interiorColor](#) (page 7)  
Returns the color used to fill the ornament at the ends of the line.
- [setInteriorColor:](#) (page 8)  
Sets the color used to fill the ornament at the ends of the line.

## Instance Methods

### endLineStyle

Returns the line ending style for the ending point of the line.

- (PDFLineStyle)endLineStyle

#### Return Value

The line ending style for the ending point of the line.

#### Availability

Available in Mac OS X v10.4 and later.

#### See Also

- [setEndLineStyle:](#) (page 7)
- [startLineStyle](#) (page 9)

#### Declared In

PDFAnnotationLine.h

### endPoint

Returns the ending point for the line in page space.

- (NSPoint)endPoint

#### Return Value

The ending point for the line, in page space.

#### 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

- [setEndPoint:](#) (page 7)
- [startPoint](#) (page 9)

### Declared In

PDFAnnotationLine.h

## interiorColor

Returns the color used to fill the ornament at the ends of the line.

- (NSColor \*) interiorColor

### Return Value

The color used in the line-end ornament at the ends of the line.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

PDFAnnotationLine.h

## setEndLineStyle:

Sets the line ending style for the ending point of the line.

- (void)setEndLineStyle:(PDFLineStyle)*style*

### Parameters

*style*

The line ending style for the ending point of the line.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [endLineStyle](#) (page 6)
- [setStartLineStyle:](#) (page 8)

### Declared In

PDFAnnotationLine.h

## setEndPoint:

Sets the ending point for the line.

- (void)setEndPoint:(NSPoint)*point*

**Parameters***point*

The ending point for the line, in page space.

**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**

- [endPoint](#) (page 6)
- [setStartPoint:](#) (page 9)

**Declared In**

PDFAnnotationLine.h

**setInteriorColor:**

Sets the color used to fill the ornament at the ends of the line.

```
- (void)setInteriorColor:(NSColor *)color
```

**Parameters***color*

The color to be used to fill in the ornament at the ends of the line.

**Discussion**

The ornament at the end of a line is optional (for more information, see the Adobe PDF Specification 1.4).

**Availability**

Available in Mac OS X v10.5 and later.

**Declared In**

PDFAnnotationLine.h

**setStartLineStyle:**

Sets the line ending style for the starting point of the line.

```
- (void)setStartLineStyle:(PDFLineStyle)style
```

**Parameters***style***Availability**

Available in Mac OS X v10.4 and later.

**See Also**

- [startLineStyle](#) (page 9)
- [setEndLineStyle:](#) (page 7)

**Declared In**

PDFAnnotationLine.h



## setStartPoint:

Sets the starting point for the line.

- (void)setStartPoint:(NSPoint)*point*

### Parameters

*point*

The starting point for the line, in page space.

### 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

- [startPoint](#) (page 9)
- [setEndPoint:](#) (page 7)

### Declared In

PDFAnnotationLine.h

## startLineStyle

Returns the line ending style for the starting point of the line.

- (PDFLineStyle)startLineStyle

### Return Value

The line ending style for the starting point of the line.

### Availability

Available in Mac OS X v10.4 and later.

### See Also

- [setStartLineStyle:](#) (page 8)
- [endLineStyle](#) (page 6)

### Declared In

PDFAnnotationLine.h

## startPoint

Returns the starting point for the line.

- (NSPoint)startPoint

### Return Value

The starting point for the line, in page space.

### 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**

- [setStartPoint:](#) (page 9)
- [endPoint](#) (page 6)

**Declared In**

PDFAnnotationLine.h

## Constants

The following constants specify the available line ending styles:

Constant	Description
kPDFLineStyleNone	No line ending. Available in Mac OS X v10.4 and later. Declared in PDFAnnotationLine.h.
kPDFLineStyleSquare	A square line ending filled with the annotation's interior color, if any. Available in Mac OS X v10.4 and later. Declared in PDFAnnotationLine.h.
kPDFLineStyleCircle	A circular line ending filled with the annotation's interior color, if any. Available in Mac OS X v10.4 and later. Declared in PDFAnnotationLine.h.
kPDFLineStyleDiamond	A diamond-shaped line ending filled with the annotation's interior color, if any. Available in Mac OS X v10.4 and later. Declared in PDFAnnotationLine.h.
kPDFLineStyleOpenArrow	An open arrowhead line ending, composed from two short lines meeting in an acute angle at the line end. Available in Mac OS X v10.4 and later. Declared in PDFAnnotationLine.h.
kPDFLineStyle-ClosedArrow	A closed arrowhead line ending, consisting of a triangle with the acute vertex at the line end and filled with the annotation's interior color, if any. Available in Mac OS X v10.4 and later. Declared in PDFAnnotationLine.h.

# Document Revision History

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This table describes the changes to *PDFAnnotationLine 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

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