
PDFAnnotationButtonWidget Class Reference

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





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PDFAnnotationButtonWidget Class Reference

Inherits from	PDFAnnotation : NSObject
Conforms to	NSObject (NSObject)
Framework	Library/Frameworks/Quartz.framework/Frameworks/PDFKit.framework
Availability	Available in Mac OS X v10.4 and later.
Declared in	PDFAnnotationButtonWidget.h

Overview

A `PDFAnnotationButtonWidget` object provides user interactivity on a page of a PDF document. There are three types of buttons available: push button, radio button, and checkbox.

`PDFAnnotationButtonWidget` inherits general annotation behavior from the `PDFAnnotation` class. If you use a `PDFAnnotationButtonWidget` object, your application must handle hit testing, unless you are simply using `PDFView` to display content. This is because `PDFView` automatically handles hit testing for you.

Tasks

Getting and Setting the Control Type

- [controlType](#) (page 8)
Returns the type of the control.
- [setControlType:](#) (page 11)
Sets the type of the control.
- [parentID](#) (page 10)
Gets the ID of the parent object. **(Deprecated.** If you need to find other buttons in the same group, such as a group of radio buttons, you do not need information about the parent object. Instead, look for button widget objects that return the same value in [fieldName](#) (page \$@).)

Getting and Setting the Control's State

- [state](#) (page 14)
Returns the state of the control.

- `setState:` (page 13)
Sets the state of the control.

Getting and Setting the Control's Appearance

- `isHighlighted` (page 9)
Returns a Boolean value that indicates whether the control is highlighted when it is drawn.
- `setHighlighted:` (page 12)
Sets the control's highlighting when it is drawn.
- `backgroundColor` (page 7)
Returns the background color of the control.
- `setBackgroundColor:` (page 10)
Sets the control's background color.

Getting and Setting the Control Label Font Attributes

- `font` (page 9)
Returns the font used in the control's label.
- `setFont:` (page 12)
Sets the font of the control's label.
- `fontColor` (page 9)
Returns the font color used in the control's label.
- `setFontColor:` (page 12)
Sets the font color used in the control's label.

Getting and Setting the Control Label Text

- `caption` (page 7)
Returns the text of the label on a push button control.
- `setCaption:` (page 11)
Sets the text of the label on a push button control.

Managing Radio Button Behavior

- `allowsToggleToOff` (page 7)
Returns a Boolean value indicating whether a radio button behaves in a toggling manner.

Managing Control State Values and Form Fields

- `onStateValue` (page 10)
Returns the string associated with the on state of a radio button or checkbox control.

- [setStateValue:](#) (page 13)
Sets the string that is associated with the on state of a radio button or checkbox control.
- [fieldName](#) (page 8)
Returns the internal name of a field (used for reset-form actions).
- [setFieldName:](#) (page 11)
Sets the internal name of a field (used for reset-form actions).

Instance Methods

allowsToggleToOff

Returns a Boolean value indicating whether a radio button behaves in a toggling manner.

- (BOOL)allowsToggleToOff

Return Value

YES if clicking a radio button control that is already in the on state toggles it to the off state; otherwise NO.

Availability

Available in Mac OS X v10.5 and later.

Declared In

PDFAnnotationButtonWidget.h

backgroundColor

Returns the background color of the control.

- (NSColor *)backgroundColor

Return Value

The color drawn in the background of the control.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setBackground-color:](#) (page 10)

Declared In

PDFAnnotationButtonWidget.h

caption

Returns the text of the label on a push button control.

- (NSString *)caption

Return Value

The label drawn on a push button control.

Discussion

This method applies only to the label drawn on a control of type `kPDFWidgetPushButtonControl` (page \$@).

Availability

Available in Mac OS X v10.5 and later.

See Also

- `setCaption:` (page \$@)

Declared In

`PDFAnnotationButtonWidget.h`

controlType

Returns the type of the control.

- (`PDFWidgetControlType`)controlType

Return Value

The type of control the button represents. See “Constants” (page 14) for the various control types.

Availability

Available in Mac OS X v10.4 and later.

See Also

- `setControlType` (page \$@)

Declared In

`PDFAnnotationButtonWidget.h`

fieldName

Returns the internal name of a field (used for reset-form actions).

- (`NSString *`)fieldName

Return Value

The internal name of a field.

Discussion

The internal name of a field is an optional value.

Availability

Available in Mac OS X v10.5 and later.

See Also

- `setFieldName` (page \$@)

Declared In

`PDFAnnotationButtonWidget.h`

font

Returns the font used in the control's label.

- (NSFont *)font

Return Value

The font used in the control's label.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setFont:](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

fontColor

Returns the font color used in the control's label.

- (NSColor *)fontColor

Return Value

The font color used in the control's label.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setFontColor:](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

isHighlighted

Returns a Boolean value that indicates whether the control is highlighted when it is drawn.

- (BOOL)isHighlighted

Return Value

YES if the control is highlighted when it is drawn; otherwise NO.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setHighlighted:](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

onStateValue

Returns the string associated with the on state of a radio button or checkbox control.

- (NSString *)onStateValue

Return Value

The string associated with the on state of a radio button or checkbox control.

Discussion

This is a required string for controls of types [kPDFWidgetRadioButtonControl](#) (page \$@) and [kPDFWidgetCheckBoxControl](#) (page \$@). The off state is always labeled “Off”.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setOnStateValue](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

parentID

Gets the ID of the parent object. (**Deprecated.** If you need to find other buttons in the same group, such as a group of radio buttons, you do not need information about the parent object. Instead, look for button widget objects that return the same value in [fieldName](#) (page \$@).)

- (unsigned)parentID

Discussion

For more information about the field names of annotations, see the Adobe PDF specification.

Availability

Available in Mac OS X v10.4 through Mac OS X v10.4.

Declared In

PDFAnnotationButtonWidget.h

setBackgroundColor:

Sets the control’s background color.

- (void)setBackgroundColor:(NSColor *)color

Parameters

color

The color to be drawn in the control’s background.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [backgroundColor](#) (page 7)

Declared In

PDFAnnotationButtonWidget.h

setCaption:

Sets the text of the label on a push button control.

- (void)setCaption:(NSString *)*name***Parameters***name*

The text to be used as the label on a push button control.

Availability

Available in Mac OS X v10.5 and later.

See Also- [caption](#) (page \$@)**Declared In**

PDFAnnotationButtonWidget.h

setControlType:

Sets the type of the control.

- (void)setControlType:(PDFWidgetControlType)*type***Parameters***type*The type of control for the button. “[Constants](#)” (page 14) lists the various control types you can send for this value.**Availability**

Available in Mac OS X v10.5 and later.

See Also- [controlType](#) (page \$@)**Declared In**

PDFAnnotationButtonWidget.h

setFieldName:

Sets the internal name of a field (used for reset-form actions).

- (void)setFieldName:(NSString *)*name***Parameters***name*

The internal name of a field. This is an optional value.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [fieldName](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

setFont:

Sets the font of the control's label.

```
- (void)setFont:(NSFont *)font
```

Parameters

font

The desired font for the control's label.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [font](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

setFontColor:

Sets the font color used in the control's label.

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

Parameters

color

The desired font color of the control's label.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [fontColor](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

setHighlighted:

Sets the control's highlighting when it is drawn.

```
- (void)setHighlighted:(BOOL)flag
```

Parameters*flag*

Set this value to YES to cause the control to be highlighted when it is drawn or NO otherwise.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [isHighlighted](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

setStateValue:

Sets the string that is associated with the on state of a radio button or checkbox control.

```
- (void)setOnStateValue:(NSString *)name
```

Discussion

Required for controls of types [kPDFWidgetRadioButtonControl](#) (page \$@) and [kPDFWidgetCheckBoxControl](#) (page \$@), the value of *name* describes the on state of the control (the off state is always labeled “Off”). Although “On” is an acceptable string for the on state of a single checkbox, a group of two or more radio buttons should have a unique string associated with each control.

For example, a form might display a group of 3 radio buttons that allow users to indicate an account type, such as savings, checking, or investment. The strings associated with the on states of these buttons could be “Savings,” “Checking,” and “Investment.” In this example, these 3 radio buttons also would share a field name string, such as “AccountType.”

Availability

Available in Mac OS X v10.5 and later.

See Also

- [onStateValue](#) (page \$@)

- [fieldName](#) (page \$@)

Declared In

PDFAnnotationButtonWidget.h

setState:

Sets the state of the control.

```
- (void)setState:(int)value
```

Parameters*value*

The state the control should be in.

Discussion

A control’s state (for example, checked or unchecked) affects how it is drawn. Note that push buttons are always in the on state.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [state](#) (page 14)

Declared In

PDFAnnotationButtonWidget.h

state

Returns the state of the control.

- (int)state

Return Value

NSOnState if the control is on; NSOffState otherwise.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

PDFAnnotationButtonWidget.h

Constants

Types of PDF Annotation Buttons

The types of annotation buttons.

```
typedef NSInteger PDFWidgetControlType;
enum {
    kPDFWidgetUnknownControl = -1,
    kPDFWidgetPushButtonControl = 0,
    kPDFWidgetRadioButtonControl = 1,
    kPDFWidgetCheckBoxControl = 2
};
```

Constants

kPDFWidgetUnknownControl

Unknown control type.

Available in Mac OS X v10.4 and later.

Declared in PDFAnnotationButtonWidget.h.

kPDFWidgetPushButtonControl

Push button control.

Available in Mac OS X v10.4 and later.

Declared in PDFAnnotationButtonWidget.h.

kPDFWidgetRadioButtonControl

Radio button control.

Available in Mac OS X v10.4 and later.

Declared in PDFAnnotationButtonWidget.h.

kPDFWidgetCheckBoxControl

Check box control.

Available in Mac OS X v10.4 and later.

Declared in PDFAnnotationButtonWidget.h.

Document Revision History

This table describes the changes to *PDFAnnotationButtonWidget 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.

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