NSPrintPanel Class Reference

Cocoa > Printing

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NSPrintPanel Class Reference

Inherits from	NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/AppKit.framework
Availability	Available in Mac OS X v10.0 and later.
Declared in	NSPrintPanel.h
Companion guides	Printing Programming Topics for Cocoa Sheet Programming Topics for Cocoa

Overview

An `NSPrintPanel` object creates the Print panel used to query the user for information about a print job. This panel may lets the user select the range of pages to print and the number of copies before executing the Print command.

Print panels can display a simplified interface when printing certain types of data. For example, the panel can display a list of print-setting presets, which lets the user enable print settings in groups as opposed to individually. The `setJobStyleHint:` (page 14) method activates the simplified interface and identifies which presets to display.

Tasks

Creating an NSPrintPanel

`+ printPanel` (page 7)
Returns a new `NSPrintPanel` object.

Customizing the Panel

`- jobStyleHint` (page 10)
Returns the type of content that the Print panel is representing.

`- setJobStyleHint:` (page 14)
Sets the type of content the Print panel is representing.

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- `options` (page 10)
  Returns the current configuration options for the Print panel.
- `setOptions:` (page 14)
  Sets the configuration options for the Print panel.
- `defaultButtonTitle` (page 9)
  Returns the title of the Print panel's default button.
- `setDefaultButtonTitle:` (page 13)
  Sets the title of the Print panel's default button.
- `helpAnchor` (page 9)
  Returns the HTML help anchor associated with the Print panel.
- `setHelpAnchor:` (page 13)
  Sets the HTML help anchor for the print panel.

Managing Accessory Views

- `addAccessoryController:` (page 8)
  Adds a custom controller to the Print panel to manage an accessory view.
- `removeAccessoryController:` (page 11)
  Removes the specified controller and accessory view from the Print panel.
- `accessoryControllers` (page 7)
  Returns the array of controller objects used to manage the Print panel's accessory views.

Running the Panel

- `beginSheetWithPrintInfo:modalForWindow:delegate:didEndSelector:contextInfo:` (page 8)
  Displays a Print panel sheet and runs it modally for the specified window.
- `runModal` (page 12)
  Displays the receiver's Print panel and begins the modal loop.
- `runModalWithPrintInfo:` (page 12)
  Displays the receiver's Print panel and runs the modal loop using the specified printing information.

Communicating with the NSPrintInfo Object

- `printInfo` (page 11)
  Returns the printing information associated with the running Print panel.
- `finalWritePrintInfo` (page 17) Deprecated in Mac OS X v10.5
  Writes the receiver's printing attributes to the current `NSPrintOperation` object.
- `updateFromPrintInfo` (page 18) Deprecated in Mac OS X v10.5
  Updates the receiver with information from the current `NSPrintOperation` object.

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Deprecated Methods

- `pickedButton:` (page 11)
  Deprecated. (Deprecated. No alternative. Do not use.)
- `pickedAllPages:` (page 10)
  Deprecated. (Deprecated. No alternative. Do not use.)
- `pickedLayoutList:` (page 11)
  Deprecated. (Deprecated. No alternative. Do not use.)
- `accessoryView` (page 17) Deprecated in Mac OS X v10.5
  Returns the accessory view of the receiver. (Deprecated. Use `accessoryControllers` (page 7) instead.)
- `setAccessoryView:` (page 18) Deprecated in Mac OS X v10.5
  Sets the accessory view for the receiver. (Deprecated. Use `addAccessoryController:` (page 8) instead.)

Class Methods

printPanel

Returns a new `NSPrintPanel` object.

```
+ (NSPrintPanel *)printPanel
```

Return Value
The print panel object.

Availability
Available in Mac OS X v10.0 and later.

Declared In
`NSPrintPanel.h`

Instance Methods

accessoryControllers

Returns the array of controller objects used to manage the Print panel's accessory views.

```
- (NSArray *)accessoryControllers
```

Return Value
An array of `NSViewController` objects, each of which manages an accessory view for the Print panel.

Discussion
This method returns the accessory views that were added using the `addAccessoryController:` method.

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Availability
Available in Mac OS X v10.5 and later.

See Also
- addAccessoryController: (page 8)

Declared In
NSPrintPanel.h

addAccessoryController:

Adds a custom controller to the Print panel to manage an accessory view.

```
- (void)addAccessoryController:(NSViewController < NSPrintPanelAccessorizing >
    *)accessoryController
```

Parameters

accessoryController
The view controller that manages your custom accessory views.

Discussion
You can invoke this method multiple times to add multiple accessory views to the receiver's Print panel. The title for the accessory view is obtained from the `title` method of the view controller object.

Availability
Available in Mac OS X v10.5 and later.

See Also
- removeAccessoryController: (page 11)

Declared In
NSPrintPanel.h

beginSheetWithPrintInfo:modalForWindow:delegate:didEndSelector:contextInfo:

Displays a Print panel sheet and runs it modally for the specified window.

```
- (void)beginSheetWithPrintInfo:(NSPrintInfo *)printInfo modalForWindow:(NSWindow
    *)docWindow delegate:(id)modalDelegate didEndSelector:(SEL)didEndSelector
   contextInfo:(void *)contextInfo
```

Parameters

printInfo
The printing information for the current job.

docWindow
The window on which to display the sheet.

modalDelegate
A modal delegate object assigned to handle the closing of the Print panel sheet.

didEndSelector
The selector to call on the modal delegate object when the sheet is dismissed. The signature of this method is listed in the Discussion section.

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contextInfo

A pointer to context data the `didEndSelector` method needs to process the sheet. This data is user-defined and may be `NULL`.

Discussion
When the modal session ends, if *modalDelegate* and *didEndSelector* contain non-`nil` values, the method specified by *didEndSelector* is invoked on the object in *modalDelegate*. The data you specify in *contextInfo* is passed as a parameter to the *didEndSelector* method. The object in *modalDelegate* is not the same as a delegate assigned to the panel. Modal delegates for sheets are temporary and the relationship lasts only until the sheet is dismissed.

The *didEndSelector* argument must have the following signature:

```
- (void)printPanelDidEnd:(NSPrintPanel *)printPanel returnCode:(int)returnCode
  contextInfo: (void *)contextInfo;
```

The value passed as *returnCode* is either `NSCancelButton` or `NSOKButton`. The value `NSOKButton` is returned even if the user clicked the Preview button.

Availability
Available in Mac OS X v10.0 and later.

Declared In
`NSPrintPanel.h`

defaultButtonTitle

Returns the title of the Print panel's default button.

```
- (NSString *)defaultButtonTitle
```

Return Value
The title of the default button.

Availability
Available in Mac OS X v10.5 and later.

See Also
`- setDefaultButtonTitle:` (page 13)

Declared In
`NSPrintPanel.h`

helpAnchor

Returns the HTML help anchor associated with the Print panel.

```
- (NSString *)helpAnchor
```

Return Value
The current help anchor.

Availability
Available in Mac OS X v10.5 and later.

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See Also
- `setHelpAnchor:` (page 13)

Declared In
`NSPrintPanel.h`

jobStyleHint

Returns the type of content that the Print panel is representing.

```
- (NSString *)jobStyleHint
```

Return Value
A string containing the job style hint or `nil` if no hint has been set.

Availability
Available in Mac OS X v10.2 and later.

See Also
- `setJobStyleHint:` (page 14)

Declared In
`NSPrintPanel.h`

options

Returns the current configuration options for the Print panel.

```
- (NSPrintPanelOptions)options
```

Return Value
One or more configuration constants added together. To determine if a particular option is set, AND the return value with the appropriate constants found in "NSPrintPanelOptions" (page 15).

Availability
Available in Mac OS X v10.5 and later.

See Also
- `setOptions:` (page 14)

Declared In
`NSPrintPanel.h`

pickedAllPages:

Deprecated. (**Deprecated.** No alternative. Do not use.)

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

Availability
Available in Mac OS X v10.0 through Mac OS X v10.4.

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Declared In
`NSPrintPanel.h`

pickedButton:

Deprecated. (**Deprecated.** No alternative. Do not use.)

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

Availability
Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared In
`NSPrintPanel.h`

pickedLayoutList:

Deprecated. (**Deprecated.** No alternative. Do not use.)

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

Availability
Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared In
`NSPrintPanel.h`

printInfo

Returns the printing information associated with the running Print panel.

```
- (NSPrintInfo *)printInfo
```

Return Value
The current printing information. May return `nil` if the Print panel is not currently running.

Discussion
This method is a convenience method that your delegate can use to get the printing information while the Print Panel is visible.

Availability
Available in Mac OS X v10.5 and later.

Declared In
`NSPrintPanel.h`

removeAccessoryController:

Removes the specified controller and accessory view from the Print panel.

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```
- (void)removeAccessoryController:(NSViewController < NSPrintPanelAccessorizing >
    *)accessoryController
```

Parameters

accessoryController

The view controller to remove.

Discussion

You use this method to remove any view controllers responsible for displaying accessory views you do not want to include in the Print panel.

Availability

Available in Mac OS X v10.5 and later.

See Also

- addAccessoryController: (page 8)

Declared In

NSPrintPanel.h

runModal

Displays the receiver's Print panel and begins the modal loop.

```
- (NSInteger)runModal
```

Return Value

NSCancelButton if the user clicks the Cancel button; otherwise NSOKButton.

Discussion

This method uses the printing information associated with the current printing operation.

Availability

Available in Mac OS X v10.0 and later.

See Also

- printInfo (NSPrintOperation)

Declared In

NSPrintPanel.h

runModalWithPrintInfo:

Displays the receiver's Print panel and runs the modal loop using the specified printing information.

```
- (NSInteger)runModalWithPrintInfo:(NSPrintInfo *)printInfo
```

Parameters

printInfo

The printing information to use while displaying the Print panel.

Return Value

NSCancelButton if the user clicks the Cancel button; otherwise NSOKButton.

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Availability
Available in Mac OS X v10.5 and later.

Declared In
NSPrintPanel.h

setDefaultButtonTitle:

Sets the title of the Print panel's default button.

```
- (void)setDefaultButtonTitle:(NSString *)defaultButtonTitle
```

Parameters

defaultButtonTitle
The string to use for the button title.

Discussion
You can use this method to change the default button title from "Print" to something more appropriate for your usage of the panel. For example, if you are using the Print panel to save a representation of the document to a file, you might change the title to "Save".

Availability
Available in Mac OS X v10.5 and later.

See Also
- defaultButtonTitle (page 9)

Declared In
NSPrintPanel.h

setHelpAnchor:

Sets the HTML help anchor for the print panel.

```
- (void)setHelpAnchor:(NSString *)helpAnchor
```

Parameters

helpAnchor
The anchor name in your Apple Help file. This parameter should contain just the name portion of the HTML anchor element.

Discussion
For information on how to insert anchors into your Apple Help files, see Authoring User Help in *Apple Help Programming Guide*.

Availability
Available in Mac OS X v10.5 and later.

See Also
- helpAnchor (page 9)

Declared In
NSPrintPanel.h

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setJobStyleHint:

Sets the type of content the Print panel is representing.

```
- (void)setJobStyleHint:(NSString *)hint
```

Parameters

hint

For a list of supported job style hints, see "Constants" (page 14). Pass `nil` to this method to deactivate the simplified Print panel interface and use the standard interface instead.

Discussion

This method controls the set of items that appear in the Presets menu of the simplified Print panel interface.

Availability

Available in Mac OS X v10.2 and later.

See Also

- `jobStyleHint` (page 10)

Declared In

`NSPrintPanel.h`

setOptions:

Sets the configuration options for the Print panel.

```
- (void)setOptions:(NSPrintPanelOptions)options
```

Parameters

options

The configuration options, which you specify by adding together the appropriate constant values found in "NSPrintPanelOptions" (page 15).

Availability

Available in Mac OS X v10.5 and later.

See Also

- `options` (page 10)

Declared In

`NSPrintPanel.h`

Constants

Job Style Hints

This constant can be passed to the `setJobStyleHint:` (page 14) method to activate the simplified Print panel interface and specify which presets to display.

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```
NSString *NSPrintPhotoJobStyleHint;
```

Constants

`NSPrintPhotoJobStyleHint`

Output contains photographic data.

Available in Mac OS X v10.2 and later.

Declared in `NSPrintPanel.h`.

Declared In

`NSPrintPanel.h`

NSPrintPanelOptions

These constants are used to configure the contents of the main Print panel.

```
enum {
    NSPrintPanelShowsCopies = 0x01,
    NSPrintPanelShowsPageRange = 0x02,
    NSPrintPanelShowsPaperSize = 0x04,
    NSPrintPanelShowsOrientation = 0x08,
    NSPrintPanelShowsScaling = 0x10,
    NSPrintPanelShowsPageSetupAccessory = 0x100,
    NSPrintPanelShowsPreview = 0x20000
};
typedef NSInteger NSPrintPanelOptions;
```

Constants

`NSPrintPanelShowsCopies`

The Print panel includes a field for manipulating the number of copies being printed. This field is separate from any accessory views.

Available in Mac OS X v10.5 and later.

Declared in `NSPrintPanel.h`.

`NSPrintPanelShowsPageRange`

The Print panel includes a set of fields for manipulating the range of pages being printed. These fields are separate from any accessory views.

Available in Mac OS X v10.5 and later.

Declared in `NSPrintPanel.h`.

`NSPrintPanelShowsPaperSize`

The Print panel includes a control for manipulating the paper size of the printer. This control is separate from any accessory views.

Available in Mac OS X v10.5 and later.

Declared in `NSPrintPanel.h`.

`NSPrintPanelShowsOrientation`

The Print panel includes a control for manipulating the page orientation. This control is separate from any accessory views.

Available in Mac OS X v10.5 and later.

Declared in `NSPrintPanel.h`.

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`NSPrintPanelShowsScaling`

The Print panel includes a control for scaling the printed output. This control is separate from any accessory views.

Available in Mac OS X v10.5 and later.

Declared in `NSPrintPanel.h`.

`NSPrintPanelShowsPageSetupAccessory`

The Print panel includes a separate accessory view for manipulating the paper size, orientation, and scaling attributes. Page setup fields that are already configured for display on the main portion of the Print panel appear there and not on this accessory panel.

Available in Mac OS X v10.5 and later.

Declared in `NSPrintPanel.h`.

`NSPrintPanelShowsPreview`

The Print panel displays a built-in preview of the document contents. This option is only appropriate when the Print panel is used in conjunction with an `NSPrintOperation` object to print a document.

Available in Mac OS X v10.5 and later.

Declared in `NSPrintPanel.h`.

Declared In

`NSPrintPanel.h`

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Deprecated NSPrintPanel Methods

A method identified as deprecated has been superseded and may become unsupported in the future.

Deprecated in Mac OS X v10.5

accessoryView

Returns the accessory view of the receiver. (Deprecated in Mac OS X v10.5. Use `accessoryControllers` (page 7) instead.)

```
- (NSView *)accessoryView
```

Return Value
The accessory view of the receiver, if any.

Availability
Available in Mac OS X v10.0 and later.
Deprecated in Mac OS X v10.5.

See Also
`- setAccessoryView:` (page 18)

Declared In
`NSPrintPanel.h`

finalWritePrintInfo

Writes the receiver's printing attributes to the current `NSPrintOperation` object. (Deprecated in Mac OS X v10.5.)

```
- (void)finalWritePrintInfo
```

Discussion
Do not invoke this method directly—it is invoked automatically when the Print panel is dismissed by the user clicking the OK button.

Availability
Available in Mac OS X v10.0 and later.
Deprecated in Mac OS X v10.5.

See Also
`- updateFromPrintInfo` (page 18)
`+ currentOperation` (NSPrintOperation)

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Declared In
NSPrintPanel.h

setAccessoryView:

Sets the accessory view for the receiver. (Deprecated in Mac OS X v10.5. Use addAccessoryController: (page 8) instead.)

```
- (void)setAccessoryView:(NSView *)aView
```

Parameters

aView

The view containing the controls and information you want to add to the print panel. Specify nil to remove the receiver's current accessory view.

Discussion
You can use an accessory view to add printing controls and information to the standard print panel. You set your accessory view prior to displaying the print panel. Upon display, the print panel adds your application's name as an item to its pane-selection pull-down menu. When the user selects this item, the print panel displays your accessory view.

Availability
Available in Mac OS X v10.0 and later.
Deprecated in Mac OS X v10.5.

See Also
- accessoryView (page 17)

Declared In
NSPrintPanel.h

updateFromPrintInfo

Updates the receiver with information from the current NSPrintOperation object. (Deprecated in Mac OS X v10.5.)

```
- (void)updateFromPrintInfo
```

Discussion
Do not invoke this method directly—it is invoked automatically before the Print panel is displayed.

Availability
Available in Mac OS X v10.0 and later.
Deprecated in Mac OS X v10.5.

See Also
- finalWritePrintInfo (page 17)
+ currentOperation (NSPrintOperation)

Declared In
NSPrintPanel.h

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Document Revision History

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

Date	Notes
2007-07-16	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

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