
Fonts Panel Reference



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Fonts Panel Reference

Framework:	CommonPanels.framework
Declared in	FontPanel.h

Overview

The Fonts Panel programming interface is a collection of functions and data types that support the use of a Fonts panel in a Carbon application. The Fonts panel is the preferred user interface for fonts in Mac OS X.

Functions

FPIsFontPanelVisible

Checks whether the Fonts panel is visible.

```
Boolean FPIsFontPanelVisible (  
    void  
);
```

Return Value

Returns `true` if the Fonts panel is visible; `false` otherwise. See the Mac Types documentation for a description of the `Boolean` data type.

Availability

Not available in CarbonLib 1.x.

Available in Mac OS X version 10.2.

Related Sample Code

CoreTextArc

TypeServicesForUnicode

Declared In

FontPanel.h

FPShowHideFontPanel

Shows or hides the Fonts panel.

```
OSStatus FShowHideFontPanel (
    void
);
```

Return Value

A result code. See “[Fonts Panel Results Codes](#)” (page 14).

Discussion

The function `FShowHideFontPanel` shows the Fonts panel if the panel is not visible and hides the Fonts panel if the panel is visible.

Availability

Not available in CarbonLib 1.x.

Available in Mac OS X version 10.2.

Declared In

FontPanel.h

SetFontInfoForSelection

Sets the selections that appear in the Fonts panel.

```
OSStatus SetFontInfoForSelection (
    OSType iStyleType,
    UInt32 iNumStyles,
    void *iStyles,
    EventTargetRef iFPEventTarget
);
```

Parameters

iStyleType

The type of style data you are passing to the Fonts panel. Pass `kFontSelectionQDType` if you supply a `FontSelectionQDStyle` data structure in the `iStyles` parameter. Pass `kFontSelectionATSUIType` if you supply `ATSUStyle` data in the `iStyles` parameter.

iNumStyles

The number of styles passed in the `iStyles` parameter.

iStyles

A pointer to an array of data structures that correspond to the style type specified by the `iStyleType` parameter.

iFPEventTarget

The event target you want to receive the Carbon event `kEventFontSelection` that is associated with the Fonts panel. You typically specify the event target for the window that is sending the style selection to the Fonts panel.

Return Value

A result code. See “[Fonts Panel Results Codes](#)” (page 14).

Discussion

You can programmatically set a selection in the Fonts panel by calling the function `SetFontInfoForSelection`. You can call this function even when the Fonts panel is not open or visible. When the Fonts panel becomes visible later, the style information specified in the most recent call to `SetFontInfoForSelection` is selected in the panel.

Availability

Not available in CarbonLib 1.x.

Available in Mac OS X version 10.2.

Related Sample Code

CoreTextArc

TypeServicesForUnicode

Declared In

FontPanel.h

Data Types

FontSelectionQDStyle

Contains QuickDraw style font information.

```
struct FontSelectionQDStyle {
    UInt32 version;
    FMFontFamilyInstance instance;
    FMFontSize size;
    Boolean hasColor;
    UInt8 reserved;
    RGBColor color;
};
typedef struct FontSelectionQDStyle FontSelectionQDStyle;
typedef FontSelectionQDStyle * FontSelectionQDStylePtr;
```

Fields

version

Specifies the version number of the data structure.

instance

Specifies a font family instance.

size

Specifies the font size in points.

hasColor

Specifies whether the font has a color other than black.

reserved

Reserved for future use.

color

Specifies the font color.

Discussion

You should use this data structure to specify QuickDraw-style font information when you call the function [SetFontInfoForSelection](#) (page 8). When you use this data structure, you must pass the constant `kFontSelectionQDType` in the `iStyleType` parameter of the function.

Availability

Available in Mac OS X v10.2 and later.

Declared In
FontPanel.h

FontSelectionQDStylePtr

A pointer to a data structure that contains QuickDraw style font information.

```
typedef FontSelectionQDStyle * FontSelectionQDStylePtr;
```

Discussion
See [FontSelectionQDStyle](#) (page 9) for more information.

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

Declared In
FontPanel.h

Constants

Font Event Class

Specifies a Carbon event related to font selection or handling.

```
enum {  
    kEventClassFont = 'font'  
};
```

Constants
`kEventClassFont`
Specifies a Carbon event related to font selection or handling.
Available in Mac OS X v10.2 and later.
Declared in `FontPanel.h`.

Declared In
FontPanel.h

Fonts Panel Events

Specify a Fonts panel Carbon event.

```
enum {
    kEventFontPanelClosed = 1,
    kEventFontSelection = 2
};
```

Constants

`kEventFontPanelClosed`

Specifies a close event in the Fonts panel. Your application should update the user interface as necessary. For example, you may need to change a Hide Fonts Panel menu command to Show Fonts Panel.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`kEventFontSelection`

Specifies a selection event in the Fonts panel. Your application can obtain the selections from the event parameters associated with this event. Your application must check for all those parameters it handles and apply the selections to the text.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

Discussion

When the user closes the Fonts panel, the action generates the Carbon event `kEventWindowClosed`. You can then update any menu items or other controls whose state may need to change. The event `kEventWindowClosed` has no parameters. However, when the user selects an item in the Fonts panel, the system sends the Carbon event `kEventFontSelection` to the event target you specified when your application called the Fonts Panel function [SetFontInfoForSelection](#) (page 8). The event `kEventFontSelection` has parameters that reflect the current Fonts panel selection.

Declared In

`FontPanel.h`

Font Information Types

Specify the type of font information.

```
enum {
    kFontSelectionATSUIType = 'astl',
    kFontSelectionQDType = 'qstl'
};
```

Constants

`kFontSelectionATSUIType`

Specifies **ATSUI data** (`ATSUStyle`).

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`kFontSelectionQDType`

Specifies **QuickDraw data** (`FontSelectionQDStyle`).

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

Discussion

These constants specify the type of font information passed to the function [SetFontInfoForSelection](#) (page 8).

Declared In
FontPanel.h

Font Information Versions

Specify the supported versions of the `FontSelectionQDStyle` data structure.

```
enum {
    kFontSelectionQDStyleVersionZero = 0
};
```

Constants

`kFontSelectionQDStyleVersionZero`
Specifies version 0 of a QuickDraw font selection.
Available in Mac OS X v10.2 and later.
Declared in `FontPanel.h`.

Discussion

You should always set the `version` field in the `FontSelectionQDStyle` data structure to this constant

Declared In
FontPanel.h

Fonts Panel Command

Specifies the four-character code for the show/hide Fonts panel command.

```
enum {
    kHICommandShowHideFontPanel = 'shfp'
};
```

Constants

`kHICommandShowHideFontPanel`
Specifies the four-character code for the show/hide Fonts panel command.
Available in Mac OS X v10.2 and later.
Declared in `FontPanel.h`.

Discussion

If the user closes the Fonts panel directly, your application receives a `kEventFontPanelClosed` Carbon event. You can then call the Carbon Event Manager function `GetEventParameter` to extract the HI command from the event.

Declared In
FontPanel.h

Font Parameters and Data Types

Specify font event parameters and their associated data types.

```
enum {
    typeATSUIFontID = typeUInt32,
    typeATSUSize = typeFixed,
    typeFMFontFamily = typeSInt16,
    typeFMFontStyle = typeSInt16,
    typeFMFontSize = typeSInt16,
    typeFontColor = typeRGBColor,
    kEventParamATSUIFontID = 'auid',
    kEventParamATSUFontSize = 'ausz',
    kEventParamFMFontFamily = 'fmfm',
    kEventParamFMFontStyle = 'fmst',
    kEventParamFMFontSize = 'fmsz',
    kEventParamFontColor = 'fclr'
};
```

Constants

`typeATSUIFontID`

Specifies that an `ATSUIFontID` is of type `UInt32`.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`typeATSUSize`

Specifies that an `ATSUSize` is of type `Fixed`.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`typeFMFontFamily`

Specifies that an `FMFontFamily` is of type `SInt16`.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`typeFMFontStyle`

Specifies that an `FMFontStyle` is of type `SInt16`.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`typeFMFontSize`

Specifies that an `FMFontSize` is of type `SInt16`.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`typeFontColor`

Specifies that a font color is of type `RGBColor`.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`kEventParamATSUIFontID`

Specifies the four-character code associated with an `ATSUIFontID` selection in the Fonts panel.

Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`kEventParamATSUIFontSize`

Specifies the four-character code associated with an `ATSUIFontSize` selection in the Fonts panel.
Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`kEventParamFMFontFamily`

Specifies the four-character code associated with an `FMFontFamily` selection in the Fonts panel.
Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`kEventParamFMFontStyle`

Specifies the four-character code associated with an `FMFontStyle` selection in the Fonts panel.
Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`kEventParamFMFontSize`

Specifies the four-character code associated with an `FMFontSize` selection in the Fonts panel.
Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

`kEventParamFontColor`

Specifies the four-character code associated with a font color selection in the Fonts panel.
Available in Mac OS X v10.2 and later.

Declared in `FontPanel.h`.

Discussion

[Table 1](#) (page 14) lists the parameters and data types associated with the Carbon event `kEventFontSelection`.

Table 1 Parameters and parameter data types for a font selection event.

Parameter	Data type
<code>kEventParamATSUIFontID</code>	<code>typeATSUIFontID</code>
<code>kEventParamATSUIFontSize</code>	<code>typeATSUIFontSize</code>
<code>kEventParamFMFontFamily</code>	<code>typeFMFontFamily</code>
<code>kEventParamFMFontStyle</code>	<code>typeFMFontStyle</code>
<code>kEventParamFMFontSize</code>	<code>typeFMFontSize</code>
<code>kEventParamFontColor</code>	<code>typeFontColor</code>

Declared In

`FontPanel.h`

Result Codes

The most common result codes returned by the Fonts Panel programming interface are listed below.

Result Code	Value	Description
fontPanelShowErr	-8880	The Fonts panel could not be opened. Available in Mac OS X v10.2 and later.
fontPanelSelectionStyleErr	-8881	Your application specified an invalid style type in the <code>iStyleType</code> parameter of the SetFontInfoForSelection (page 8) function. Available in Mac OS X v10.2 and later.
fontPanelFontSelectionQDStyleVersionErr	-8882	Your application specified an invalid version in the <code>version</code> field of the <code>FontSelectionQDStyle</code> data structure. Available in Mac OS X v10.2 and later.

Document Revision History

This table describes the changes to *Fonts Panel Reference*.

Date	Notes
2007-02-26	Made a minor technical correction.
	Changed Fonts Window Services to Fonts Panel and Fonts window to Fonts panel.
2005-07-07	Changed a parameter for the function SetFontInfoForSelection.
2002-11-14	First release of this document. This is a complete reference to the Fonts Panel programming interface version 1.0.

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