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# QCCompositionPickerView Class Reference

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



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# QCCompositionPickerView 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>	/System/Library/Frameworks/Quartz.framework/Frameworks/QuartzComposer.framework
<b>Availability</b>	Available in Mac OS X v10.5 and later.
<b>Companion guide</b>	Quartz Composer Programming Guide
<b>Declared in</b>	QCCompositionPickerView.h

## Overview

The `QCCompositionPickerView` class allows users to browse compositions that are in the Quartz Composer composition repository, and to preview them. You can set the default input parameters for a composition preview by using the method `setDefaultValue:forInputKey:`.

Note that the composition picker view does not automatically refresh its content when the composition repository is updated. It's your responsibility to perform any necessary updating.

## Tasks

### Setting and Getting the Background Color

- [setBackground-color:](#) (page 12)  
Sets the background color for the composition picker view.
- [background-color:](#) (page 8)  
Returns the background color of the composition picker view.

### Managing Background Drawing

- [setDrawsBackground:](#) (page 14)  
Sets whether the composition picker view draws its background.

- [drawsBackground](#) (page 9)  
Returns whether the composition picker view draws its background.

## Setting Composition Input Parameters

- [setDefaultValue:forInputKey:](#) (page 13)  
Sets the default value to use for a composition input parameter.
- [resetDefaultInputValues](#) (page 11)  
Clears all previously set default values for composition input parameters.

## Managing Animation

- [startAnimation:](#) (page 16)  
Starts animating the composition in the composition picker view.
- [stopAnimation:](#) (page 16)  
Stops animating the composition that is currently animating in the composition picker view.
- [isAnimating](#) (page 9)  
Returns whether or not the composition picker view is currently animating its composition.
- [setMaxAnimationFrameRate:](#) (page 14)  
Sets the maximum frame rate for animating compositions.
- [maxAnimationFrameRate](#) (page 10)  
Retrieves the maximum frame rate for animating compositions.

## Controlling Display of Composition Names

- [setShowsCompositionNames:](#) (page 15)  
Enables the display of composition names in the composition picker view.
- [showsCompositionNames](#) (page 16)  
Retrieves whether composition names can be shown in the composition picker view.

## Setting and Retrieving the View Delegate

- [setDelegate:](#) (page 13)  
Sets the composition picker view delegate.
- [delegate](#) (page 9)  
Retrieves the composition picker view delegate.

## Managing the Composition Picker View

- [setCompositionsFromRepositoryWithProtocol:andAttributes:](#) (page 12)  
Sets the compositions in the composition picker view to those that match the specified criteria.

- [compositions](#) (page 8)  
Returns the list of compositions that are currently in the composition picker view.
- [setAllowsEmptySelection:](#) (page 11)  
Sets whether to allow an empty selection in the composition picker view.
- [allowsEmptySelection](#) (page 7)  
Retrieves the empty-selection state of the composition picker view.
- [setCompositionAspectRatio:](#) (page 12)  
Sets the aspect ratio used to display compositions in the composition picker view.
- [compositionAspectRatio](#) (page 8)  
Retrieves the aspect ratio used to display compositions in the composition picker view.
- [setSelectedComposition:](#) (page 15)  
Sets a composition as selected in the composition picker view.
- [selectedComposition](#) (page 11)  
Returns the composition that is currently selected in the composition picker view.

## Working with Columns and Rows

- [setNumberOfColumns:](#) (page 14)  
Sets the number of columns in the composition picker view.
- [numberOfColumns](#) (page 10)  
Retrieves the number of columns in the composition picker view.
- [setNumberOfRows:](#) (page 15)  
Sets the number of rows in the composition picker view.
- [numberOfRows](#) (page 10)  
Retrieves the number of rows in the composition picker view.

## Instance Methods

### allowsEmptySelection

Retrieves the empty-selection state of the composition picker view.

- (BOOL) allowsEmptySelection

#### Return Value

YES if an empty selection is allowed NO otherwise.

#### Availability

Available in Mac OS X v10.5 and later.

#### See Also

- [setAllowsEmptySelection:](#) (page 11)

#### Declared In

QCCompositionPickerView.h

## backgroundColor

Returns the background color of the composition picker view.

- (NSColor\*) backgroundColor;

### Return Value

The background color.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [setBackground-color:](#) (page 12)

### Declared In

QCCompositionPickerView.h

## compositionAspectRatio

Retrieves the aspect ratio used to display compositions in the composition picker view.

- (NSSize) compositionAspectRatio

### Return Value

The aspect ratio.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [setCompositionAspectRatio:](#) (page 12)

### Declared In

QCCompositionPickerView.h

## compositions

Returns the list of compositions that are currently in the composition picker view.

- (NSArray\*) compositions

### Return Value

An array of `QCComposition` objects.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [setCompositionsFromRepositoryWithProtocol:andAttributes:](#) (page 12)

### Declared In

QCCompositionPickerView.h



## delegate

Retrieves the composition picker view delegate.

- (id) delegate

### Return Value

The delegate.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

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

### Declared In

QCCompositionPickerView.h

## drawsBackground

Returns whether the composition picker view draws its background.

- (BOOL) drawsBackground;

### Return Value

YES if the composition picker view draws its background; otherwise NO.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [setDrawsBackground:](#) (page 14)

### Declared In

QCCompositionPickerView.h

## isAnimating

Returns whether or not the composition picker view is currently animating its composition.

- (BOOL) isAnimating

### Return Value

YES if a composition is animating in the composition picker view; NO otherwise.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [startAnimation:](#) (page 16)

- [stopAnimation:](#) (page 16)

### Declared In

QCCompositionPickerView.h

## maxAnimationFrameRate

Retrieves the maximum frame rate for animating compositions.

- (float) maxAnimationFrameRate

### Return Value

The maximum frame rate.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [setMaxAnimationFrameRate](#): (page 14)

### Declared In

QCCompositionPickerView.h

## numberOfColumns

Retrieves the number of columns in the composition picker view.

- (NSInteger) numberOfColumns;

### Return Value

The number of columns.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [setNumberOfColumns](#): (page 14)

### Declared In

QCCompositionPickerView.h

## numberOfRows

Retrieves the number of rows in the composition picker view.

- (NSInteger) numberOfRows;

### Return Value

The number of columns.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [setNumberOfRows](#): (page 15)

### Declared In

QCCompositionPickerView.h

## resetDefaultInputValues

Clears all previously set default values for composition input parameters.

- (void) resetDefaultInputValues

### Discussion

This method resets the defaults that were set with the method [setDefaultValue:forInputKey:](#) (page 13).

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

QCCompositionPickerView.h

## selectedComposition

Returns the composition that is currently selected in the composition picker view.

- (QCComposition\*) selectedComposition

### Return Value

A `QCComposition` object, or `nil` if a composition is not selected.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [setSelectedComposition:](#) (page 15)

### Declared In

QCCompositionPickerView.h

## setAllowsEmptySelection:

Sets whether to allow an empty selection in the composition picker view.

- (void) setAllowsEmptySelection:(BOOL)flag

### Parameters

*flag*

YES to allow an empty selection. The default value is NO.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [allowsEmptySelection](#) (page 7)

### Declared In

QCCompositionPickerView.h

## setBackground-color:

Sets the background color for the composition picker view.

```
- (void) setBackgroundColor:(NSColor*)aColor;
```

### Parameters

*aColor*

The color for the background.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [backgroundColor](#) (page 8)

### Declared In

QCCompositionPickerView.h

## setCompositionAspect-ratio:

Sets the aspect ratio used to display compositions in the composition picker view.

```
- (void) setCompositionAspectRatio:(NSSize)ratio
```

### Parameters

*ratio*

An aspect ratio.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [compositionAspectRatio](#) (page 8)

### Declared In

QCCompositionPickerView.h

## setCompositionsFromRepositoryWithProtocol:andAttributes:

Sets the compositions in the composition picker view to those that match the specified criteria.

```
- (void) setCompositionsFromRepositoryWithProtocol:(NSString*)protocol
andAttributes:(NSDictionary*)attributes
```

### Parameters

*protocol*

The protocols that you want compositions shown in the picker view to conform to. You can pass any of these protocols: `QCCompositionProtocolAnimation`, `QCCompositionProtocolImageProducer`, `QCCompositionProtocolImageFilter`, `QCCompositionProtocolImageCompositor`, `QCCompositionProtocolImageTransition`, and `QCCompositionProtocolScreenSaverRSS`.

*attributes*

A dictionary that contains the attributes, and their associated values, that you want compositions in the picker view to match. For example, you can pass: `QCCompositionAttributeNameKey`, `QCCompositionAttributeDescriptionKey`, `QCCompositionAttributeCopyrightKey`, `QCCompositionAttributeBuiltInKey`, and `QCCompositionAttributeTimeDependentKey`. Pass `nil` if you don't want to filter based on the attributes.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [compositions](#) (page 8)

**Declared In**

`QCCompositionPickerView.h`

**setDefaultValue:forInputKey:**

Sets the default value to use for a composition input parameter.

- (void) setDefaultValue:(id)value forInputKey:(NSString\*)key

**Parameters**

*value*

This default value overrides any initial value existing for composition input parameters with this key. Pass `nil` to clear the default value.

*key*

The input parameter key whose default value you want to set.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [resetDefaultInputValues](#) (page 11)

**Declared In**

`QCCompositionPickerView.h`

**setDelegate:**

Sets the composition picker view delegate.

- (void) setDelegate:(id)delegate

**Parameters**

*delegate*

The delegate to set.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [delegate](#) (page 9)

**Declared In**

QCCompositionPickerView.h

**setDrawsBackground:**

Sets whether the composition picker view draws its background.

- (void) setDrawsBackground:(BOOL)flag;

**Parameters***flag*

The background drawing state. Pass YES if the composition picker view draws its background.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**- [drawsBackground](#) (page 9)**Declared In**

QCCompositionPickerView.h

**setMaxAnimationFrameRate:**

Sets the maximum frame rate for animating compositions.

- (void) setMaxAnimationFrameRate:(float)maxFPS

**Parameters***maxFPS*

A frame rate in frames per second. Pass 0.0 to specify no limit to the maximum value.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**- [maxAnimationFrameRate](#) (page 10)**Declared In**

QCCompositionPickerView.h

**setNumberOfColumns:**

Sets the number of columns in the composition picker view.

- (void) setNumberOfColumns:(NSUInteger)columns;

**Parameters***columns*

The number of columns.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [numberOfColumns](#) (page 10)

**Declared In**

QCCompositionPickerView.h

**setNumberOfRows:**

Sets the number of rows in the composition picker view.

- (void) setNumberOfRows:(NSInteger)rows;

**Parameters**

*columns*

The number of rows.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [numberOfRows](#) (page 10)

**Declared In**

QCCompositionPickerView.h

**setSelectedComposition:**

Sets a composition as selected in the composition picker view.

- (void) setSelectedComposition:(QCComposition\*)composition

**Parameters**

*composition*

The composition to select. Pass `nil` if you don't want to select a composition. The behavior is undefined if you pass a composition that is not in the list of compositions that are currently in the composition picker view.

**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- [selectedComposition](#) (page 11)

**Declared In**

QCCompositionPickerView.h

**setShowsCompositionNames:**

Enables the display of composition names in the composition picker view.

- (void) setShowsCompositionNames:(BOOL)flag

### Parameters

*flag*

YES specifies to show compositions name. The default value is NO.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

QCCompositionPickerView.h

## showsCompositionNames

Retrieves whether composition names can be shown in the composition picker view.

- (BOOL) showsCompositionNames

### Return Value

YES if the display of names is enabled; otherwise NO.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

QCCompositionPickerView.h

## startAnimation:

Starts animating the composition in the composition picker view.

- (void) startAnimation:(id)sender

### Parameters

*sender*

The object initiating the animation.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [stopAnimation:](#) (page 16)

- [isAnimating](#) (page 9)

### Declared In

QCCompositionPickerView.h

## stopAnimation:

Stops animating the composition that is currently animating in the composition picker view.

- (void) stopAnimation:(id)sender



### Parameters

*sender*

The object stopping the animation.

### Availability

Available in Mac OS X v10.5 and later.

### See Also

- [startAnimation:](#) (page 16)
- [isAnimating](#) (page 9)

### Declared In

QCCompositionPickerView.h

## Notifications

### QCCompositionPickerViewDidSelectCompositionNotification

Posted when the user selects a composition in the picker view.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

QCCompositionPickerView.h



# Document Revision History

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

Date	Notes
2007-05-09	New document that describes the class used to display a view for browsing and selecting a composition.

## REVISION HISTORY

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