
CAScrollView Class Reference

[Graphics & Imaging](#) > Quartz



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Apple Inc.
1 Infinite Loop
Cupertino, CA 95014
408-996-1010

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CAScrollView Class Reference

Inherits from	CALayer : NSObject
Conforms to	NSCoding (CALayer) CAMediaTiming (CALayer) NSObject (NSObject)
Framework	/System/Library/Frameworks/QuartzCore.framework
Availability	Available in Mac OS X v10.5 and later.
Declared in	CAScrollView.h
Companion guides	Core Animation Programming Guide Core Animation Cookbook
Related sample code	CALayerEssentials

Overview

The `CAScrollView` class is a subclass of `CALayer` that simplifies displaying a portion of a layer. The extent of the scrollable area of the `CAScrollView` is defined by the layout of its sublayers. The visible portion of the layer content is set by specifying the origin as a point or a rectangular area of the contents to be displayed. `CAScrollView` does not provide keyboard or mouse event-handling, nor does it provide visible scrollers.

Tasks

Scrolling Constraints

- [scrollMode](#) (page 6) *property*
Defines the axes in which the layer may be scrolled.

Scrolling the Layer

- [scrollToPoint:](#) (page 6)
Changes the origin of the receiver to the specified point.
- [scrollToRect:](#) (page 6)
Scroll the contents of the receiver to ensure that the rectangle is visible.

Properties

For more about Objective-C properties, see “Properties” in *The Objective-C 2.0 Programming Language*.

scrollMode

Defines the axes in which the layer may be scrolled.

```
@property(copy) NSString *scrollMode
```

Discussion

The possible values are described in “[Scroll Modes](#)” (page 7). The default is `kCAScrollBoth`.

Availability

Available in Mac OS X v10.5 and later.

Declared In

`CAScrollLayer.h`

Instance Methods

scrollToPoint:

Changes the origin of the receiver to the specified point.

```
- (void)scrollToPoint:(CGPoint)thePoint
```

Parameters

thePoint

The new origin.

Availability

Available in Mac OS X v10.5 and later.

Declared In

`CAScrollLayer.h`

scrollToRect:

Scroll the contents of the receiver to ensure that the rectangle is visible.

```
- (void)scrollToRect:(CGRect)theRect
```

Parameters

theRect

The rectangle that should be visible.

Availability

Available in Mac OS X v10.5 and later.

Related Sample Code

CALayerEssentials

Declared In

CAScrollLayer.h

Constants

Scroll Modes

These constants describe the supported scroll modes used by the [scrollMode](#) (page 6) property.

```
NSString * const kCAScrollNone;
NSString * const kCAScrollVertically;
NSString * const kCAScrollHorizontally;
NSString * const kCAScrollBoth;
```

Constants

kCAScrollNone

The receiver is unable to scroll.

Available in Mac OS X v10.5 and later.

Declared in CAScrollLayer.h.

kCAScrollVertically

The receiver is able to scroll vertically.

Available in Mac OS X v10.5 and later.

Declared in CAScrollLayer.h.

kCAScrollHorizontally

The receiver is able to scroll horizontally.

Available in Mac OS X v10.5 and later.

Declared in CAScrollLayer.h.

kCAScrollBoth

The receiver is able to scroll both horizontally and vertically.

Available in Mac OS X v10.5 and later.

Declared in CAScrollLayer.h.

Declared In

CAScrollLayer.h

Document Revision History

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

Date	Notes
2007-07-24	New document that describes the class that displays a portion of a layer that's too large to be displayed in its entirety.

REVISION HISTORY

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K

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`kCASScrollHorizontally` **constant** [7](#)
`kCASScrollNone` **constant** [7](#)
`kCASScrollVertically` **constant** [7](#)

S

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`scrollMode` **instance property** [6](#)
`scrollToPoint:` **instance method** [6](#)
`scrollToRect:` **instance method** [6](#)