NSViewAnimation Class Reference

Cocoa > Graphics & Imaging



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NSViewAnimation Class Reference

Inherits from NSAnimation: NSObject Conforms to NSCoding (NSAnimation)

NSCopying (NSAnimation) NSObject (NSObject)

Framework /System/Library/Frameworks/AppKit.framework

Availability Available in Mac OS X v10.4 and later.

Companion guide Cocoa Drawing Guide

Declared in NSAnimation.h

Related sample code iSpend

QTCoreVideo301

Reducer

Overview

The NSV i ewAnimation class, a public subclass of NSAnimation, offers a convenient way to animate multiple views and windows. The animation effects you can achieve are limited to changes in frame location and size, and to fade-in and fade-out effects.

An NSViewAnimation object takes an array of dictionaries from which it determines the objects to animate and the effects to apply to them. Each dictionary must have a target object and, optionally, properties that specify beginning and ending frame and whether to fade in or fade out. (See "View Animation Dictionary Keys" (page 7) for further information.) Animations with NSViewAnimation are, by default, in non-blocking mode over a duration of 0.5 seconds using the ease in-out animation curve. But you can configure the animation to have any duration, curve, frame rate, and blocking mode. You may also set progress marks, assign a delegate, and implement delegation methods in order to animate view and windows concurrent with the ones specified as targets in the view-animation dictionary.

Invoking the NSAnimation stopAnimation method on a running NSViewAnimation object moves the animation to the end frame.

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Tasks

Initializing an NSViewAnimation Object

- initWithViewAnimations: (page 6)

Returns an NSViewAnimation object initialized with the supplied information.

Getting and Setting View-animation Dictionaries

- setViewAnimations: (page 6)

Sets the dictionaries defining the objects to animate.

viewAnimations (page 7)

Returns the array of dictionaries defining the objects to animate.

Instance Methods

initWithViewAnimations:

Returns an NSViewAnimation object initialized with the supplied information.

- (id)initWithViewAnimations:(NSArray *) viewAnimations

Parameters

viewAnimations

An array of NSDictionary objects. Each dictionary specifies a view or window to animate and the effect to apply. <code>viewAnimations</code> can be nil, but you must later set the required array of dictionaries with <code>setViewAnimations</code>: (page 6) if you want to use the capabilities of the <code>NSViewAnimation</code> class. See"View Animation Dictionary Keys" (page 7) for a description of valid keys and values for dictionaries in <code>viewAnimations</code>.

Return Value

The created NSViewAnimation object or nil if there was a problem initializing the object.

Availability

Available in Mac OS X v10.4 and later.

Related Sample Code

iSpend

Reducer

Declared In

NSAnimation.h

setViewAnimations:

Sets the dictionaries defining the objects to animate.

- (void)setViewAnimations:(NSArray *)viewAnimations

Parameters

viewAnimations

An array of NSDictionary objects. Each dictionary specifies a view or window to animate and the effect to apply. Pass in nil to remove the current list of dictionaries. See "View Animation Dictionary Keys" (page 7) for a description of valid keys and values for dictionaries in viewAnimations.

Availability

Available in Mac OS X v10.4 and later.

See Also

viewAnimations (page 7)

Declared In

NSAnimation.h

viewAnimations

Returns the array of dictionaries defining the objects to animate.

- (NSArray *)viewAnimations

Discussion

Each dictionary in the returned array specifies a view or window to animate and the effect to apply.

Availability

Available in Mac OS X v10.4 and later.

See Also

- setViewAnimations: (page 6)

Declared In

NSAnimation.h

Constants

View Animation Dictionary Keys

The following string constants are keys for the dictionaries in the array passed into initWithViewAnimations: (page 6) and setViewAnimations: (page 6).

Constants 7

```
NSString *NSViewAnimationTargetKey;
NSString *NSViewAnimationStartFrameKey;
NSString *NSViewAnimationEndFrameKey;
NSString *NSViewAnimationEffectKey;
```

Constants

NSViewAnimationTargetKey

The target of the animation.

The target can be either an NSView object or an NSWindow object. This property is required.

Available in Mac OS X v10.4 and later.

Declared in NSAnimation.h.

NSViewAnimationStartFrameKey

The size and location of the window or view at the start of the animation.

The size and location are specified by an NSRect structure encoded in an NSValue object. This property is optional. If it is not specified, NSViewAnimation uses the frame of the window or view at the start of the animation.

Available in Mac OS X v10.4 and later.

Declared in NSAnimation.h.

NSViewAnimationEndFrameKey

The size and location of the window or view at the end of the animation.

The size and location are specified by an NSRect structure encoded in an NSValue object. This property is optional. If it is not specified, NSViewAnimation uses the frame of the window or view at the start of the animation. If the target is a view and the end frame is empty, the view is hidden at the end.

Available in Mac OS X v10.4 and later.

Declared in NSAnimation.h.

NSViewAnimationEffectKey

An effect to apply to the animation.

Takes a string constant specifying fade-in or fade-out effects for the target:

NSViewAnimationFadeInEffect and NSViewAnimationFadeOutEffect. If the target is a view and the effect is to fade out, the view is hidden at the end. If the effect is to fade in an initially hidden view and the end frame is non-empty, the view is unhidden at the end. If the target is a window, the window is ordered in or out as appropriate to the effect. This property is optional.

Available in Mac OS X v10.4 and later.

Declared in NSAnimation.h.

Declared In

NSAnimation.h

Values for NSViewAnimationEffectKey

The following constants specify the animation effect to apply and are used as values for the animation effect property of the animation view. See the description of NSViewAnimationEffectKey for usage details.

NSString *NSViewAnimationFadeInEffect;
NSString *NSViewAnimationFadeOutEffect;

Constants

 ${\tt NSViewAnimationFadeInEffect}$

Specifies a fade-in type of effect.

Available in Mac OS X v10.4 and later.

Declared in NSAnimation.h.

 ${\tt NSViewAnimationFadeOutEffect}$

Specifies a fade-out type of effect.

Available in Mac OS X v10.4 and later.

Declared in NSAnimation.h.

Availability

Available in Mac OS X v10.4 and later

Declared In

NSAnimation.h

Constants

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Document Revision History

This table describes the changes to NSViewAnimation Class Reference.

Date	Notes
2006-05-23	First publication of this content as a separate document.

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