
UIImageView Class Reference

Graphics & Animation: 2D Drawing



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IKImageBrowserView Class Reference

Inherits from	NSView : NSResponder : NSObject
Conforms to	NSAnimatablePropertyContainer (NSView) NSCoding (NSResponder) NSObject (NSObject)
Framework	/System/Library/Frameworks/Quartz.framework/ImageKit.framework
Availability	Available in Mac OS X v10.5 and later.
Declared in	IKImageBrowserView.h
Related sample code	AutomatorHandsOn DesktopImage ImageBrowser ImageBrowserViewAppearance ImageKitDemo

Overview

The `IKImageBrowserView` class is a view for displaying and browsing a large amount of images and movies efficiently.

Tasks

Initializing and Setting Up an Image Browser View

- [initWithFrame:](#) (page 13)
Initializes a newly allocated image browser view with the provided frame rectangle.
- [setDataSource:](#) (page 18)
Sets the data source of the receiver.
- [dataSource](#) (page 11)
Returns the data source of the receiver.
- [reloadData](#) (page 14)
Marks the receiver as needing its data reloaded.
- [setDelegate:](#) (page 18)
Sets the delegate of the receiver.

- [delegate](#) (page 11)
Returns the delegate of the receiver.

Setting the Appearance

- [setCellsStyleMask:](#) (page 17)
Defines the appearance style of the cells.
- [cellsStyleMask](#) (page 9)
Returns the appearance style mask for the cell.
- [setConstrainsToOriginalSize:](#) (page 17)
Sets whether the receiver constrains the cell's image to its original size.
- [constrainsToOriginalSize](#) (page 10)
Returns whether the receiver constrains the cell's image to its original size.

Zooming and Resizing

- [setZoomValue:](#) (page 19)
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- [zoomValue](#) (page 20)
Returns the current zoom value.
- [setContentResizingMask:](#) (page 17)
Determines how the receiver resizes its content when zooming.
- [contentResizingMask](#) (page 10)
Returns the receiver's content resizing mask, which determines how its content is resized while zooming.

Scrolling

- [scrollIndexToVisible:](#) (page 14)
Scrolls the receiver to the item at the specified index.

Setting and Getting Cell Size

- [setCellSize:](#) (page 16)
Sets the cell size.
- [cellSize](#) (page 9)
Returns the cell size.

Getting Item Information

- [indexOfItemAtPoint:](#) (page 13)
Returns the index of the item at the specified location.

- [itemFrameAtIndex:](#) (page 14)
Returns the frame rectangle for the item located at the specified index.

Reordering and Groups Items

- [selectionIndexes](#) (page 15)
Returns the indexes of the selected cells.
- [setSelectionIndexes:byExtendingSelection:](#) (page 19)
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- [setAllowsMultipleSelection:](#) (page 15)
Controls whether the user can select more than one cell at a time.
- [allowsMultipleSelection](#) (page 8)
Returns whether multiple selections are allowed.
- [setAllowsEmptySelection:](#) (page 15)
Controls whether an empty selection is allowed.
- [allowsEmptySelection](#) (page 8)
Returns whether an empty selection is allowed.
- [setAllowsReordering:](#) (page 16)
Controls whether the user can reorder items.
- [allowsReordering](#) (page 8)
Returns whether the user can reorder items.
- [setAnimates:](#) (page 16)
Controls whether the receiver animates reordering and changes of the data source.
- [animates](#) (page 9)
Returns whether the receiver animates reordering and changes of the data source.
- [expandGroupAtIndex:](#) (page 12)
Expands a group at the specified index.
- [collapseGroupAtIndex:](#) (page 10)
Collapses a group at the specified index.
- [isGroupExpandedAtIndex:](#) (page 13)
Returns whether the group at the provided index is expanded.

Supporting Drag and Drop

- [setDraggingDestinationDelegate:](#) (page 18)
Sets the dragging destination delegate of the receiver.
- [draggingDestinationDelegate](#) (page 11)
Returns the dragging destination delegate of the receiver.
- [indexAtLocationOfDroppedItem](#) (page 12)
Returns the index of the cell where the drop operation occurred.

Instance Methods

allowsEmptySelection

Returns whether an empty selection is allowed.

- (BOOL) allowsEmptySelection;

Return Value

YES if the receiver allows an empty selection; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

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

Declared In

IKImageBrowserView.h

allowsMultipleSelection

Returns whether multiple selections are allowed.

- (BOOL) allowsMultipleSelection;

Return Value

YES if the receiver allows the user to select more than one cell at a time; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

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

Declared In

IKImageBrowserView.h

allowsReordering

Returns whether the user can reorder items.

- (BOOL) allowsReordering;

Return Value

YES if the user can reorder items; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

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

Declared In

IKImageBrowserView.h

animates

Returns whether the receiver animates reordering and changes of the data source.

- (BOOL) animates;

Return Value

YES if the receiver animates reordering and changes of the data source; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

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

Declared In

IKImageBrowserView.h

cellSize

Returns the cell size.

- (NSSize) cellSize;

Return Value

The current size for the cells in the image browser view.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

cellsStyleMask

Returns the appearance style mask for the cell.

- (NSUInteger) cellsStyleMask;

Return Value

The appearance style mask for the cell.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setCellsStyleMask:](#) (page 17)

Declared In

IKImageBrowserView.h

collapseGroupAtIndex:

Collapses a group at the specified index.

- (void) collapseGroupAtIndex:(NSUInteger) index;

Parameters

index

The index of the group you want to collapse.

Availability

Available in Mac OS X v10.5 and later.

See Also

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

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

Declared In

IKImageBrowserView.h

constrainsToOriginalSize

Returns whether the receiver constrains the cell's image to its original size.

- (BOOL) constrainsToOriginalSize;

Return Value

NO if the image is not constrained; otherwise YES.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setConstrainsToOriginalSize:](#) (page 17)

Declared In

IKImageBrowserView.h

contentResizingMask

Returns the receiver's content resizing mask, which determines how its content is resized while zooming.

- (NSUInteger) contentResizingMask;

Return Value

The content resizing mask.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setContentResizingMask:](#) (page 17)

Declared In

IKImageBrowserView.h

dataSource

Returns the data source of the receiver.

```
- (id) dataSource;
```

Return Value

The data source (IKImageBrowserDataSource). The data source is not retained by the receiver.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setDataSource:](#) (page 18)

Declared In

IKImageBrowserView.h

delegate

Returns the delegate of the receiver.

```
- (id) delegate;
```

Return Value

The delegate.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setDelegate:](#) (page 18)

Declared In

IKImageBrowserView.h

draggingDestinationDelegate

Returns the dragging destination delegate of the receiver.

```
- (id) draggingDestinationDelegate;
```

Return Value

The receiver's dragging destination delegate.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setDraggingDestinationDelegate:](#) (page 18)

Declared In

IKImageBrowserView.h

expandGroupAtIndex:

Expands a group at the specified index.

- (void) expandGroupAtIndex:(NSUInteger) index;

Parameters

index

The index of the group you want to expand.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [collapseGroupAtIndex:](#) (page 10)

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

Declared In

IKImageBrowserView.h

indexAtLocationOfDroppedItem

Returns the index of the cell where the drop operation occurred.

- (NSUInteger) indexAtLocationOfDroppedItem;

Return Value

The index of the cell where the drop operation occurred.

Discussion

The returned index is valid until the next drop occurs.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

indexOfItemAtPoint:

Returns the index of the item at the specified location.

```
- (NSInteger) indexOfItemAtPoint: (NSPoint)point;
```

Parameters

point

The location of the item.

Return Value

The index of the item or `NSNotFound` if no item at this location.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

initWithFrame:

Initializes a newly allocated image browser view with the provided frame rectangle.

```
- (id) initWithFrame:(NSRect) frame;
```

Parameters

frame

The rectangle for the image browser.

Return Value

The initialized object.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

isGroupExpandedAtIndex:

Returns whether the group at the provided index is expanded.

```
- (BOOL) isGroupExpandedAtIndex:(NSUInteger) index;
```

Parameters

index

The index you want to check.

Return Value

YES if the group is expanded; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [expandGroupAtIndex:](#) (page 12)
- [collapseGroupAtIndex:](#) (page 10)

Declared In

IKImageBrowserView.h

itemFrameAtIndex:

Returns the frame rectangle for the item located at the specified index.

```
- (NSRect) itemFrameAtIndex: (NSInteger) index;
```

Parameters

index

The index of the item whose frame rectangle you want to obtain.

Return Value

The frame rectangle of the item.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

reloadData

Marks the receiver as needing its data reloaded.

```
- (void) reloadData;
```

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

scrollIndexToVisible:

Scrolls the receiver to the item at the specified index.

```
- (void) scrollIndexToVisible:(NSInteger) index;
```

Parameters

index

The index of the item to scroll to.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

selectionIndexes

Returns the indexes of the selected cells.

- (NSIndexSet *) selectionIndexes;

Return Value

The indexes of the selected cells.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setSelectionIndexes:byExtendingSelection:](#) (page 19)

Declared In

IKImageBrowserView.h

setAllowsEmptySelection:

Controls whether an empty selection is allowed.

- (void) setAllowsEmptySelection: (BOOL) flag;

Parameters

flag

A BOOL value that specifies whether to allow an empty selection.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [allowsEmptySelection](#) (page 8)

Declared In

IKImageBrowserView.h

setAllowsMultipleSelection:

Controls whether the user can select more than one cell at a time.

- (void) setAllowsMultipleSelection: (BOOL) flag;

Parameters

flag

A BOOL value that specifies whether to allow multiple selections.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [allowsMultipleSelection](#) (page 8)

Declared In

IKImageBrowserView.h

setAllowsReordering:

Controls whether the user can reorder items.

- (void) setAllowsReordering: (BOOL) flag;

Parameters

flag

A BOOL value that specifies whether the user can reorder items.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [allowsReordering](#) (page 8)

Declared In

IKImageBrowserView.h

setAnimates:

Controls whether the receiver animates reordering and changes of the data source.

- (void) setAnimates: (BOOL) flag;

Parameters

flag

A BOOL value that specifies whether the receiver animates reordering and changes of the data source.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [animates](#) (page 9)

Declared In

IKImageBrowserView.h

setCellSize:

Sets the cell size.

- (void) setCellSize:(NSSize) size;

Parameters

size

The size to set.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

setCellsStyleMask:

Defines the appearance style of the cells.

- (void) setCellsStyleMask:(NSUInteger) mask;

Parameters

mask

An integer bit mask. A mask can be specified by combining any of the options described in “[Cell Appearance Style Masks](#)” (page 20) using the C bitwise OR operator.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [cellsStyleMask](#) (page 9)

Declared In

IKImageBrowserView.h

setConstrainsToOriginalSize:

Sets whether the receiver constrains the cell’s image to its original size.

- (void) setConstrainsToOriginalSize:(BOOL) flag;

Parameters

flag

A flag that specifies whether to constrain the image. The default value is NO.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [constrainsToOriginalSize](#) (page 10)

Declared In

IKImageBrowserView.h

setContentResizingMask:

Determines how the receiver resizes its content when zooming.

- (void) setContentResizingMask:(NSUInteger) mask;

Parameters

mask

A resizing mask. You specify a mask by combining any of the following options using the C bitwise OR operator: `NSViewWidthSizable`, `NSViewHeightSizable`. Other values are ignored.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [contentResizingMask](#) (page 10)

Declared In

IKImageBrowserView.h

setDataSource:

Sets the data source of the receiver.

```
- (void) setDataSource:(id) source;
```

Parameters

source

A data source (IKImageBrowserDataSource).

Availability

Available in Mac OS X v10.5 and later.

See Also

- [dataSource](#) (page 11)

Declared In

IKImageBrowserView.h

setDelegate:

Sets the delegate of the receiver.

```
- (void) setDelegate: (id) aDelegate;
```

Parameters

aDelegate

The delegate must implement the IKImageBrowserDelegate informal protocol.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [delegate](#) (page 11)

Declared In

IKImageBrowserView.h

setDraggingDestinationDelegate:

Sets the dragging destination delegate of the receiver.

```
- (void) setDraggingDestinationDelegate:(id) delegate;
```

Parameters

delegate

The delegate (NSDraggingDestination) to set.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [draggingDestinationDelegate](#) (page 11)

Declared In

IKImageBrowserView.h

setSelectionIndexes:byExtendingSelection:

Selects cells at the specified indexes.

```
- (void) setSelectionIndexes:(NSIndexSet *) indexes byExtendingSelection:(BOOL)
    extendSelection;
```

Parameters

indexes

The indexes of the cells you want to select.

extendSelection

A BOOL value that specifies whether to extend the current selection. Pass YES to extends the selection; NO replaces the current selection.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [selectionIndexes](#) (page 15)

Related Sample Code

ImageKitDemo

Declared In

IKImageBrowserView.h

setZoomValue:

Sets the zoom value.

```
- (void) setZoomValue:(float)aValue;
```

Parameters

aValue

The zoom value. This value should be greater or equal to zero and less or equal than one. A zoom value of zero corresponds to the minimum size (40x40 pixels). A zoom value of one means images fits the browser bounds. Other values are interpolated.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [zoomValue](#) (page 20)

Declared In

IKImageBrowserView.h

zoomValue

Returns the current zoom value.

```
- (float) zoomValue;
```

Return Value

The zoom value.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [setZoomValue:](#) (page 19)

Declared In

IKImageBrowserView.h

Constants

Cell Appearance Style Masks

Masks for the appearance style bit field.

```
enum{
    IKCellsStyleNone           =0,
    IKCellsStyleShadowed      =1,
    IKCellsStyleOutlined      =2,
    IKCellsStyleTitled        =4,
    IKCellsStyleSubtitled     =8
};
```

Constants

IKCellsStyleNone

No style.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKCellsStyleShadowed

Cells use shadows.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

`IKCellsStyleOutlined`
Cells are outlined.
Available in Mac OS X v10.5 and later.
Declared in `IKImageBrowserView.h`.

`IKCellsStyleTitled`
Cells display a title.
Available in Mac OS X v10.5 and later.
Declared in `IKImageBrowserView.h`.

`IKCellsStyleSubtitled`
Cells display a subtitle.
Available in Mac OS X v10.5 and later.
Declared in `IKImageBrowserView.h`.

Declared In
`IKImageBrowserView.h`

Group Style Attributes

Attributes for the group style.

```
enum{
    IKGroupBezelStyle,
    IKGroupDisclosureStyle,
};
```

Constants

`IKGroupBezelStyle`
A bezel style.
Available in Mac OS X v10.5 and later.
Declared in `IKImageBrowserView.h`.

`IKGroupDisclosureStyle`
A disclosure triangle.
Available in Mac OS X v10.5 and later.
Declared in `IKImageBrowserView.h`.

Discussion

These constants affect the appearance of a group.

Declared In
`IKImageBrowserView.h`

View Options Keys

Keys for image browser view options.

```
NSString * const IKImageBrowserBackgroundColorKey;
NSString * const IKImageBrowserSelectionColorKey;
NSString * const IKImageBrowserCellsOutlineColorKey;
NSString * const IKImageBrowserCellsTitleAttributesKey;
NSString * const IKImageBrowserCellsHighlightedTitleAttributesKey;
NSString * const IKImageBrowserCellsSubtitleAttributesKey;
```

Constants

IKImageBrowserBackgroundColorKey

A key for the background color of the image browser view. The associated value is an `NSColor` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

IKImageBrowserSelectionColorKey

A key for the color that indicates a selection. The associated value is an `NSColor` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

IKImageBrowserCellsOutlineColorKey

A key for the outline color for an item in the image browser view. The associated value is an `NSColor` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

IKImageBrowserCellsTitleAttributesKey

A key for title attribute of an item in the image browser view. The associated value is an `NSDictionary` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

IKImageBrowserCellsHighlightedTitleAttributesKey

A key for the highlighted title attribute for an item in the image browser view. The associated value is an `NSDictionary` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

IKImageBrowserCellsSubtitleAttributesKey

A key for a subtitle attribute for an item in the image browser view. The associated value is an `NSDictionary` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

Discussion

You can set and retrieve values for these keys using the methods `setValue:forKey` and `valueForKey:`.

Declared In

`IKImageBrowserView.h`

Group Keys

Keys for group attributes.

```
NSString * const IKImageBrowserGroupRangeKey;  
NSString * const IKImageBrowserGroupBackgroundColorKey;  
NSString * const IKImageBrowserGroupTitleKey;  
NSString * const IKImageBrowserGroupStyleKey;
```

Constants

IKImageBrowserGroupRangeKey

A key for the range of a group. The associated value is an `NSValue` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

IKImageBrowserGroupBackgroundColorKey

A key for the background color of a group. The associated value is an `NSColor` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

IKImageBrowserGroupTitleKey

A key for the title of a group. The associated value is an `NSString` object.

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

IKImageBrowserGroupStyleKey

A key for the style of a group. The associated value is one of the constants defined in [“Group Style Attributes”](#) (page 21).

Available in Mac OS X v10.5 and later.

Declared in `IKImageBrowserView.h`.

Declared In

`IKImageBrowserView.h`

Document Revision History

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

Date	Notes
2006-12-13	New document that describes the class that can display and browse a large amount of images and movies in an efficient manner.

REVISION HISTORY

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