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# IKImageBrowserView Class Reference

[Graphics & Imaging](#) > Quartz





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# IKImageBrowserView 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/ImageKit.framework
<b>Availability</b>	Available in Mac OS X v10.5 and later.
<b>Declared in</b>	IKImageBrowserView.h

## 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)  
Sets the zoom value.
- [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)  
Selects cells at the specified indexes.
- [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)

**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

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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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