
UIImageBrowserCell Class Reference

Graphics & Animation: 2D Drawing



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IKImageBrowserCell Class Reference

Inherits from	NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/Quartz.framework/ImageKit.framework
Availability	Available in Mac OS X v10.6 and later.
Declared in	IKImageBrowserCell.h
Related sample code	ImageBrowserViewAppearance ImageKitDemo

Overview

The `IKImageBrowserCell` class is used to display a cell conforming to the `IKImageBrowserItem` Protocol protocol in an `IKImageBrowserView`.

Tasks

Cell Component Frames

- [frame](#) (page 7)
Returns the receiver's frame rectangle, which defines its position in its `IKImageBrowserView`.
- [imageFrame](#) (page 9)
Returns the receiver's image frame rectangle, which defines the position of the thumbnail in its `IKImageBrowserView`.
- [subtitleFrame](#) (page 11)
Returns the receiver's subtitle frame rectangle.
- [titleLabel](#) (page 12)
Returns the receiver's title frame rectangle.
- [imageContainerFrame](#) (page 8)
Returns the receiver's image container frame rectangle, which defines the position of the container of the thumbnail.

Represented Item

- [indexOfRepresentedItem](#) (page 9)
Returns the index of the receiver's represented object in the datasource.
- [representedItem](#) (page 11)
Returns the receiver's represented object.

Selection Handling

- [isSelected](#) (page 9)
Returns whether the cell is selected.
- [selectionFrame](#) (page 11)
Returns the receiver's selection frame rectangle, which defines the position of the selection rectangle in its `IKImageBrowserView`.

Cell Content Display

- [imageAlignment](#) (page 7)
Returns the position of the cell's image in the frame.
- [opacity](#) (page 10)
Returns the opacity of the receiver.

Getting The Cell State

- [cellState](#) (page 7)
Returns the current cell state of the receiver.

Core Animation Integration

- [layerForType:](#) (page 10)
Returns a layer for the specified position.

Getting The Parent Browser View

- [imageBrowserView](#) (page 8)
Returns the view the receiver uses to display the cell.

Instance Methods

cellState

Returns the current cell state of the receiver.

- (IKImageBrowserCellState)cellState

Return Value

The current state of the cell. See “[IKImageBrowserCellState](#)” (page 12) for possible values.

Discussion

The `IKImageBrowserView` creates thumbnails asynchronously. This method returns the current state.

Availability

Available in Mac OS X v10.6 and later.

Related Sample Code

`ImageBrowserViewAppearance`

`ImageKitDemo`

Declared In

`IKImageBrowserCell.h`

frame

Returns the receiver’s frame rectangle, which defines its position in its `IKImageBrowserView`.

- (NSRect)frame

Return Value

The coordinates of the frame, in the `IKImageBrowserView` coordinate space.

Discussion

Subclasses should not override this method.

Availability

Available in Mac OS X v10.6 and later.

Declared In

`IKImageBrowserCell.h`

imageAlignment

Returns the position of the cell’s image in the frame.

- (NSImageAlignment)imageAlignment

Return Value

The alignment of the image. See `NSImageAlignment` for possible values.

Discussion

Subclasses can override this method to customize the image alignment.

The image frame will be computed automatically from the image container frame by taking in account the image alignment and the image aspect ratio.

Availability

Available in Mac OS X v10.6 and later.

Declared In

IKImageBrowserCell.h

imageBrowserView

Returns the view the receiver uses to display the cell.

```
- (IKImageBrowserView *)imageBrowserView
```

Return Value

The browser view containing the cell.

Discussion

Subclasses should not override this method.

Availability

Available in Mac OS X v10.6 and later.

Declared In

IKImageBrowserCell.h

imageContainerFrame

Returns the receiver's image container frame rectangle, which defines the position of the container of the thumbnail.

```
- (NSRect)imageContainerFrame
```

Return Value

The coordinates of image container frame, in the `IKImageBrowserView` coordinate space.

Discussion

The image frame is computed automatically from the image container frame by taking in account the image alignment and the image aspect ratio.

Subclasses can override this method to customize the position of the thumbnail container.

Availability

Available in Mac OS X v10.6 and later.

Related Sample Code

ImageBrowserViewAppearance

ImageKitDemo

Declared In

IKImageBrowserCell.h

imageFrame

Returns the receiver's image frame rectangle, which defines the position of the thumbnail in its `IKImageBrowserView`.

- (NSRect)imageFrame

Return Value

The coordinates of the frame, in the `IKImageBrowserView` coordinate space.

Discussion

It is the developer's responsibility to compute the `imageFrame` such that it lies entirely within the cell's `frame` (page 7) rectangle.

Subclasses can override this method to customize the position of the thumbnail.

Availability

Available in Mac OS X v10.6 and later.

Related Sample Code

`ImageBrowserViewAppearance`

`ImageKitDemo`

Declared In

IKImageBrowserCell.h

indexOfRepresentedItem

Returns the index of the receiver's represented object in the datasource.

- (NSInteger)indexOfRepresentedItem

Return Value

The index of the represented object in the datasource.

Discussion

Subclasses should not override this method.

Availability

Available in Mac OS X v10.6 and later.

Declared In

IKImageBrowserCell.h

isSelected

Returns whether the cell is selected.

- (BOOL)isSelected

Return Value

YES if the cell is selected, otherwise NO.

Discussion

Subclasses should not override this method.

Availability

Available in Mac OS X v10.6 and later.

Declared In

IKImageBrowserCell.h

layerForType:

Returns a layer for the specified position.

- (CALayer *)layerForType:(NSString *)type

Parameters

type

A string representing the layer location. See [“Cell Layer Positions”](#) (page 13) for possible values.

Return Value

The CALayer to display in the specified position.

Discussion

Subclasses can override this method to add a Core Animation layer to the cell

Availability

Available in Mac OS X v10.6 and later.

Declared In

IKImageBrowserCell.h

opacity

Returns the opacity of the receiver.

- (CGFloat)opacity

Return Value

The cell's opacity.

Discussion

Possible values are between 0.0 (transparent) and 1.0 (opaque).

Subclasses can override this method to customize the opacity of the cell.

Availability

Available in Mac OS X v10.6 and later.

Declared In

IKImageBrowserCell.h

representedItem

Returns the receiver's represented object.

- (id)representedItem

Return Value

The item represented by the cell.

Discussion

Subclasses should not override this method.

Availability

Available in Mac OS X v10.6 and later.

Declared In

IKImageBrowserCell.h

selectionFrame

Returns the receiver's selection frame rectangle, which defines the position of the selection rectangle in its `IKImageBrowserView`.

- (NSRect)selectionFrame

Return Value

The cell's selection frame, in the `IKImageBrowserView` coordinate space.

Discussion

Subclasses can override this method to customize the position of the selection frame.

Availability

Available in Mac OS X v10.6 and later.

Related Sample Code

ImageBrowserViewAppearance
ImageKitDemo

Declared In

IKImageBrowserCell.h

subtitleFrame

Returns the receiver's subtitle frame rectangle.

- (NSRect)subtitleFrame

Return Value

The coordinates of the subtitle frame, in the `IKImageBrowserView` coordinate space.

Discussion

It is the developer's responsibility to compute the `subtitleFrame` such that it lies entirely within the cell's [frame](#) (page 7) rectangle.

Subclasses can override this method to customize the position of the subtitle.

Availability

Available in Mac OS X v10.6 and later.

Declared In

IKImageBrowserCell.h

titleFrame

Returns the receiver’s title frame rectangle.

- (NSRect)titleFrame

Return Value

The coordinates of the title frame, in the `IKImageBrowserView` coordinate space.

Discussion

It is the developer’s responsibility to compute the `titleFrame` such that it lies entirely within the cell’s [frame](#) (page 7) rectangle.

Subclasses can override this method to customize the position of the title.

Availability

Available in Mac OS X v10.6 and later.

Related Sample Code

ImageBrowserViewAppearance

ImageKitDemo

Declared In

IKImageBrowserCell.h

Constants

IKImageBrowserCellState

The possible states for the browser cell. These values are used by the [cellState](#) (page 7) method.

```
typedef enum{
    IKImageStateNoImage=0,
    IKImageStateInvalid,
    IKImageStateReady,
} IKImageBrowserCellState;
```

Constants

IKImageStateNoImage

Returned until a thumbnail has been created from the represented object.

Available in Mac OS X v10.6 and later.

Declared in `IKImageBrowserCell.h`.

`IKImageStateInvalid`

The thumbnail is invalid. For example, an unsupported image is provided.

Available in Mac OS X v10.6 and later.

Declared in `IKImageBrowserCell.h`.

`IKImageStateReady`

The receiver's represented object has been set and the cell is ready to display.

Available in Mac OS X v10.6 and later.

Declared in `IKImageBrowserCell.h`.

Cell Layer Positions

Optional positioning of additional layers displayed with the cell. Used by the [layerForType:](#) (page 10) method.

```
NSString *const IKImageBrowserCellBackgroundLayer;  
NSString *const IKImageBrowserCellForegroundLayer;  
NSString *const IKImageBrowserCellSelectionLayer;  
NSString *const IKImageBrowserCellPlaceholderLayer;
```

Constants

`IKImageBrowserCellBackgroundLayer`

Layer displayed in the background.

Available in Mac OS X v10.6 and later.

Declared in `IKImageBrowserCell.h`.

`IKImageBrowserCellForegroundLayer`

Layer displayed in the foreground.

Available in Mac OS X v10.6 and later.

Declared in `IKImageBrowserCell.h`.

`IKImageBrowserCellSelectionLayer`

Layer displayed as the selection.

Available in Mac OS X v10.6 and later.

Declared in `IKImageBrowserCell.h`.

`IKImageBrowserCellPlaceholderLayer`

Layer displayed as a placeholder when an image is not yet available.

Available in Mac OS X v10.6 and later.

Declared in `IKImageBrowserCell.h`.

Document Revision History

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

Date	Notes
2010-03-24	New document that describes a cell displayed in an image browser.

REVISION HISTORY

Document Revision History