
UIImageBrowserDataSource Protocol Reference

Graphics & Animation: 2D Drawing



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UIImagePickerControllerDataSource Protocol Reference

(informal protocol)

Adopted by	UIImagePickerController
Framework	/System/Library/Frameworks/Quartz.framework/ImageKit.framework
Declared in	UIImagePickerController.h

Overview

The UIImagePickerControllerDataSource informal protocol declares the methods that an instance of the UIImagePickerController class uses to access the contents of its data source object.

Tasks

Providing Information About Items (Required)

- [numberOfItemsInImageBrowser:](#) (page 9) *required method*
Returns the number of records managed by the data source object. (required)
- [imageBrowser:itemAtIndex:](#) (page 6) *required method*
Returns an object for the item in an image browser view that corresponds to the specified index. (required)

Supporting Item Editing (Optional)

- [imageBrowser:removeItemsAtIndexes:](#) (page 7) *required method*
Signals that a remove operation should be applied to the specified items. (required)
- [imageBrowser:moveItemsAtIndexes:toIndex:](#) (page 7) *required method*
Signals that the specified items should be moved to the specified destination. (required)
- [imageBrowser:writeItemsAtIndexes:toPasteboard:](#) (page 8) *required method*
Signals that a drag should begin. (required)

Providing Information About Groups (Optional)

- [numberOfGroupsInImageBrowser:](#) (page 8) *required method*
Returns the number of groups in an image browser view. (required)

- [imageBrowser:groupAtIndex:](#) (page 6) *required method*
Returns the group at the specified index. (required)

Instance Methods

imageBrowser:groupAtIndex:

Returns the group at the specified index. (required)

```
- (NSDictionary *) imageBrowser:(IKImageBrowserView *) aBrowser
    groupAtIndex:(NSUInteger) index;
```

Parameters

aBrowser

An image browser view.

index

The index of the group you want to retrieve.

Return Value

A dictionary that defines the group. The keys in this dictionary can be any of the following constants:

IKImageBrowserGroupStyle, IKImageBrowserGroupBackgroundColorKey,

IKImageBrowserGroupTitleKey, and IKImageBrowserGroupRangeKey. For more information on these constants, see *IKImageBrowserView Class Reference*.

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageBrowser:itemAtIndex:

Returns an object for the item in an image browser view that corresponds to the specified index. (required)

```
- (id) imageBrowser:(IKImageBrowserView *) aBrowser itemAtIndex:(NSUInteger) index;
```

Parameters

aBrowser

An image browser view.

index

The index of the item you want to retrieve.

Return Value

An `IKImageBrowserItem` object.

Discussion

Your data source must implement this method. The returned object must implement the required methods of the `IKImageBrowserItem` protocol.

Availability

Available in Mac OS X v10.5 and later.

Declared In

`IKImageBrowserView.h`

imageBrowser:moveItemsAtIndexes:toIndex:

Signals that the specified items should be moved to the specified destination. (required)

```
- (BOOL) imageBrowser:(IKImageBrowserView *) aBrowser moveItemsAtIndexes:(NSIndexSet *)indexes toIndex:(NSUInteger)destinationIndex;
```

Parameters

aBrowser

An image browser view.

indexes

The indexes of the items that should be reordered.

destinationIndex

The starting index of the destination the items should be moved to.

Return Value

YES if successful; NO otherwise.

Discussion

This method is optional. It is invoked by the image browser view after Image Kit determines that a reordering operation should be applied. The data source should update itself by reordering its elements.

Availability

Available in Mac OS X v10.5 and later.

See Also

- `setAllowsReordering:`

Declared In

`IKImageBrowserView.h`

imageBrowser:removeItemsAtIndexes:

Signals that a remove operation should be applied to the specified items. (required)

```
- (void) imageBrowser:(IKImageBrowserView *) aBrowser removeItemsAtIndexes:(NSIndexSet *) indexes;
```

Parameters

aBrowser

An image browser view.

indexes

The indexes of the items that should be removed.

Discussion

This method is optional. It is invoked by the image browser after Image Kit determines that a remove operation should be applied. In response, the data source should update itself by removing the specified items.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageBrowser:writeItemsAtIndexes:toPasteboard:

Signals that a drag should begin. (required)

```
- (NSInteger) imageBrowser:(IKImageBrowserView *) aBrowser
  writeItemsAtIndexes:(NSIndexSet *) itemIndexes toPasteboard:(NSPasteboard
*)pasteboard;
```

Parameters

aBrowser

An image browser view.

itemIndexes

The indexes of the items that should be dragged.

pasteboard

The pasteboard to copy the items to.

Return Value

The number of items written to the pasteboard.

Discussion

This method is optional. It is invoked after Image Kit determines that a drag should begin, but before the drag has been started.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

numberOfGroupsInImageBrowser:

Returns the number of groups in an image browser view. (required)

```
- (NSInteger) numberOfGroupsInImageBrowser:(IKImageBrowserView *) aBrowser;
```

Parameters

aBrowser

An image browser view.

Return Value

The number of groups.

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

numberOfItemsInImageBrowser:

Returns the number of records managed by the data source object. (required)

```
- (NSInteger) numberOfItemsInImageBrowser:(IKImageBrowserView *) aBrowser;
```

Parameters

aBrowser

An image browser view.

Return Value

The number of records managed by the image browser view.

Discussion

Your data source must implement this method. An `IKImageView` object uses this method to determine how many cells it should create and display.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

Document Revision History

This table describes the changes to *UIImageBrowserDataSource Protocol Reference*.

Date	Notes
2007-07-17	New document that describes the informal protocol used to access the data source associated with an image browser view.

REVISION HISTORY

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`imageBrowser:itemAtIndex:` **protocol instance method 6**
`imageBrowser:moveItemsAtIndexes:toIndex:` **protocol instance method 7**
`imageBrowser:removeItemsAtIndexes:` **protocol instance method 7**
`imageBrowser:writeItemsAtIndexes:toPasteboard:` **protocol instance method 8**

N

`numberOfGroupsInImageBrowser:` **protocol instance method 8**
`numberOfItemsInImageBrowser:` **protocol instance method 9**