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# IKSlideshowDataSource Protocol Reference

Graphics & Animation: 2D Drawing



2009-08-25



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Apple Inc.  
1 Infinite Loop  
Cupertino, CA 95014  
408-996-1010

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# IKSlideshowDataSource Protocol Reference

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<b>Adopted by</b>	IKSlideshow
<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>	IKSlideshow.h

## Overview

The `IKSlideshowDataSource` protocol describes the methods that an `IKSlideshow` object uses to access the contents of its data source object.

**Important:** Slide show data source methods may be called on secondary threads. When you implement these methods, you must ensure that they are safe to run on threads other than the main thread.

## Tasks

### Providing Slideshow Information

- `numberOfSlideshowItems` (page 6) *required method*  
Returns the number of items in a slideshow. (required)
- `slideshowItemAtIndex:` (page 8) *required method*  
Returns the item for a given index (required)
- `nameOfSlideshowItemAtIndex:` (page 6)  
Returns the display name for item at the specified index.
- `canExportSlideshowItemAtIndex:toApplication:` (page 6)  
Reports whether the export button should be enabled for a a slideshow item.

### Performing Custom Tasks

- `slideshowWillStart` (page 8)  
Performs custom tasks when the slideshow is about to start.

- [slideshowDidStop](#) (page 7)  
Performs custom tasks when the slideshow stops.
- [slideshowDidChangeCurrentIndex:](#) (page 7)  
Performs custom tasks when the slideshow changes to the item at the specified index.

## Instance Methods

### **canExportSlideshowItemAtIndex:toApplication:**

Reports whether the export button should be enabled for a a slideshow item.

```
- (BOOL)canExportSlideshowItemAtIndex:(NSUInteger) index toApplication:(NSString *)applicationBundleIdentifier
```

#### **Return Value**

YES if the export button should be enabled for an item; otherwise NO.

#### **Availability**

Available in Mac OS X v 10.5 and later.

#### **Declared In**

IKSlideshow.h

### **nameOfSlideshowItemAtIndex:**

Returns the display name for item at the specified index.

```
- (NSString *)nameOfSlideshowItemAtIndex:(NSUInteger) index
```

#### **Parameters**

*index*

The index for a slideshow item.

#### **Return Value**

The display name. For the best user experience, you should provide the localized name, because this string appears in the user interface.

#### **Discussion**

This method is optional.

#### **Availability**

Available in Mac OS X v 10.5 and later.

#### **Declared In**

IKSlideshow.h

### **numberOfSlideshowItems**

Returns the number of items in a slideshow. (required)

- (NSUInteger)numberOfSlideshowItems

#### Return Value

The number of items in the slideshow.

#### Discussion

Your data source must implement this method.

#### Availability

Available in Mac OS X v 10.5 and later.

#### Declared In

IKSlideshow.h

## slideshowDidChangeCurrentIndex:

Performs custom tasks when the slideshow changes to the item at the specified index.

- (void)slideshowDidChangeCurrentIndex:(NSUInteger)newIndex

#### Parameters

*newIndex*

The index of the current item.

#### Discussion

Image Kit invokes this method when the slideshow changes to the specified item. Implement this method to perform custom tasks at that time.

#### Availability

Available in Mac OS X v 10.5 and later.

#### Declared In

IKSlideshow.h

## slideshowDidStop

Performs custom tasks when the slideshow stops.

- (void)slideshowDidStop

#### Discussion

Image Kit invokes this method when the slideshow stops. Implement this method to perform custom tasks at that time.

#### Availability

Available in Mac OS X v 10.5 and later.

#### See Also

- [slideshowWillStart](#) (page ?)

#### Declared In

IKSlideshow.h

## slideshowItemAtIndex:

Returns the item for a given index (required)

- (id)slideshowItemAtIndex:(NSInteger) *index*

### Parameters

*index*

An index of an item in the slideshow.

### Return Value

The object that corresponds to the item at the specified index. The item can be any of the following objects: `UIImage`, `NSString` (to specify a path name), `NSURL`, `NSFileWrapper`, `CGImageRef`, or `PDFPage`.

### Discussion

Your data source must implement this method.

### Availability

Available in Mac OS X v 10.5 and later.

### Declared In

`IKSlideshow.h`

## slideshowWillStart

Performs custom tasks when the slideshow is about to start.

- (void)slideshowWillStart

### Discussion

Image Kit invokes this method when the slideshow is about to start. Implement this method to perform custom tasks at that time.

### Availability

Available in Mac OS X v 10.5 and later.

### See Also

- [slideshowDidStop](#) (page ?)

### Declared In

`IKSlideshow.h`

# Document Revision History

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

Date	Notes
2009-08-25	Updated for Mac OS X v 10.6.
2009-03-04	Adding note that data source methods may be called on secondary threads.
2006-12-06	New document that describes the methods that a slideshow object uses to access the contents of its data source object.

## REVISION HISTORY

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