# NSDirectoryEnumerator Class Reference

Cocoa > File Management



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## NSDirectoryEnumerator Class Reference

Inherits from NSEnumerator: NSObject

Conforms to NSFastEnumeration (NSEnumerator)

NSObject (NSObject)

Framework /System/Library/Frameworks/Foundation.framework

**Availability** Available in Mac OS X v10.0 and later.

**Companion guide** Low-Level File Management Programming Topics

**Declared in** NSFileManager.h

Related sample code BundleLoader

DeskPictAppDockMenu NSOperationSample

## Overview

An NSDirectoryEnumerator object enumerates the contents of a directory, returning the pathnames of all files and directories contained within that directory. These pathnames are relative to the directory.

You obtain a directory enumerator using NSFileManager's enumeratorAtPath: method. For more details, see Low-Level File Management Programming Topics.

An enumeration is recursive, including the files of all subdirectories, and crosses device boundaries. An enumeration does not resolve symbolic links, or attempt to traverse symbolic links that point to directories.

## **Tasks**

## **Getting File and Directory Attributes**

- directoryAttributes (page 6)

Returns an NSDictionary object that contains the attributes of the directory at which enumeration started.

- fileAttributes (page 6)

Returns an NSDictionary object that contains the attributes of the most recently returned file or subdirectory (as referenced by the pathname).

### **Skipping Subdirectories**

- skipDescendents (page 7)

Causes the receiver to skip recursion into the most recently obtained subdirectory.

### Instance Methods

## directoryAttributes

Returns an NSDictionary object that contains the attributes of the directory at which enumeration started.

- (NSDictionary \*)directoryAttributes

#### **Return Value**

An NSDictionary object that contains the attributes of the directory at which enumeration started.

#### Discussion

See the description of the fileAttributesAtPath:traverseLink: method of NSFileManager for details on obtaining the attributes from the dictionary.

#### **Availability**

Available in Mac OS X v10.0 and later.

#### See Also

createDirectoryAtPath:attributes: (NSFileManager)

#### **Declared In**

NSFileManager.h

#### fileAttributes

Returns an NSDictionary object that contains the attributes of the most recently returned file or subdirectory (as referenced by the pathname).

- (NSDictionary \*)fileAttributes

#### **Return Value**

An NSDictionary object that contains the attributes of the most recently returned file or subdirectory (as referenced by the pathname).

#### Discussion

See the description of the fileAttributesAtPath:traverseLink: method of NSFileManager for details on obtaining the attributes from the dictionary.

#### **Availability**

Available in Mac OS X v10.0 and later.

#### **Related Sample Code**

**NSOperationSample** 

#### **Declared In**

NSFileManager.h

## skipDescendents

Causes the receiver to skip recursion into the most recently obtained subdirectory.

- (void)skipDescendents

#### **Availability**

Available in Mac OS X v10.0 and later.

#### **Declared In**

NSFileManager.h

NSDirectoryEnumerator Class Reference

# **Document Revision History**

This table describes the changes to NSDirectoryEnumerator Class Reference.

Date	Notes
2008-10-15	Added note in Introduction to show how to retrieve a directory enumerator instance.
2007-02-23	Revised task headings.
2006-05-23	First publication of this content as a separate document.

#### **REVISION HISTORY**

**Document Revision History** 

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