| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ForwardingFileObject.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/tools/FileObject.html)   [**NEXT CLASS**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/tools/ForwardingFileObject.html)    [**NO FRAMES**](http://docs.google.com/ForwardingFileObject.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

## **javax.tools**

Class ForwardingFileObject<F extends [**FileObject**](http://docs.google.com/javax/tools/FileObject.html)>

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.tools.ForwardingFileObject<F>**

**Type Parameters:**F - the kind of file object forwarded to by this object **All Implemented Interfaces:** [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Direct Known Subclasses:** [ForwardingJavaFileObject](http://docs.google.com/javax/tools/ForwardingJavaFileObject.html)

public class **ForwardingFileObject<F extends** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html)**>**extends [Object](http://docs.google.com/java/lang/Object.html)implements [FileObject](http://docs.google.com/javax/tools/FileObject.html)

Forwards calls to a given file object. Subclasses of this class might override some of these methods and might also provide additional fields and methods.

**Since:** 1.6

| **Field Summary** | |
| --- | --- |
| protected  [F](http://docs.google.com/javax/tools/ForwardingFileObject.html) | [**fileObject**](http://docs.google.com/javax/tools/ForwardingFileObject.html#fileObject)            The file object which all methods are delegated to. |

| **Constructor Summary** | |
| --- | --- |
| protected | [**ForwardingFileObject**](http://docs.google.com/javax/tools/ForwardingFileObject.html#ForwardingFileObject(F))([F](http://docs.google.com/javax/tools/ForwardingFileObject.html) fileObject)            Creates a new instance of ForwardingFileObject. |

| **Method Summary** | |
| --- | --- |
| boolean | [**delete**](http://docs.google.com/javax/tools/ForwardingFileObject.html#delete())()            Deletes this file object. |
| [CharSequence](http://docs.google.com/java/lang/CharSequence.html) | [**getCharContent**](http://docs.google.com/javax/tools/ForwardingFileObject.html#getCharContent(boolean))(boolean ignoreEncodingErrors)            Gets the character content of this file object, if available. |
| long | [**getLastModified**](http://docs.google.com/javax/tools/ForwardingFileObject.html#getLastModified())()            Gets the time this file object was last modified. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/javax/tools/ForwardingFileObject.html#getName())()            Gets a user-friendly name for this file object. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | [**openInputStream**](http://docs.google.com/javax/tools/ForwardingFileObject.html#openInputStream())()            Gets an InputStream for this file object. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | [**openOutputStream**](http://docs.google.com/javax/tools/ForwardingFileObject.html#openOutputStream())()            Gets an OutputStream for this file object. |
| [Reader](http://docs.google.com/java/io/Reader.html) | [**openReader**](http://docs.google.com/javax/tools/ForwardingFileObject.html#openReader(boolean))(boolean ignoreEncodingErrors)            Gets a reader for this object. |
| [Writer](http://docs.google.com/java/io/Writer.html) | [**openWriter**](http://docs.google.com/javax/tools/ForwardingFileObject.html#openWriter())()            Gets a Writer for this file object. |
| [URI](http://docs.google.com/java/net/URI.html) | [**toUri**](http://docs.google.com/javax/tools/ForwardingFileObject.html#toUri())()            Returns a URI identifying this file object. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Field Detail** |
| --- |

### fileObject

protected final [F](http://docs.google.com/javax/tools/ForwardingFileObject.html) extends [FileObject](http://docs.google.com/javax/tools/FileObject.html) **fileObject**

The file object which all methods are delegated to.

| **Constructor Detail** |
| --- |

### ForwardingFileObject

protected **ForwardingFileObject**([F](http://docs.google.com/javax/tools/ForwardingFileObject.html) fileObject)

Creates a new instance of ForwardingFileObject.

**Parameters:**fileObject - delegate to this file object

| **Method Detail** |
| --- |

### toUri

public [URI](http://docs.google.com/java/net/URI.html) **toUri**()

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#toUri()) Returns a URI identifying this file object.

**Specified by:**[toUri](http://docs.google.com/javax/tools/FileObject.html#toUri()) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Returns:**a URI

### getName

public [String](http://docs.google.com/java/lang/String.html) **getName**()

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#getName()) Gets a user-friendly name for this file object. The exact value returned is not specified but implementations should take care to preserve names as given by the user. For example, if the user writes the filename "BobsApp\Test.java" on the command line, this method should return "BobsApp\Test.java" whereas the [toUri](http://docs.google.com/javax/tools/FileObject.html#toUri()) method might return file:///C:/Documents%20and%20Settings/UncleBob/BobsApp/Test.java.

**Specified by:**[getName](http://docs.google.com/javax/tools/FileObject.html#getName()) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Returns:**a user-friendly name

### openInputStream

public [InputStream](http://docs.google.com/java/io/InputStream.html) **openInputStream**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#openInputStream()) Gets an InputStream for this file object.

**Specified by:**[openInputStream](http://docs.google.com/javax/tools/FileObject.html#openInputStream()) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Returns:**an InputStream **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this file object was opened for writing and does not support reading [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html) - if this kind of file object does not support byte access [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurred

### openOutputStream

public [OutputStream](http://docs.google.com/java/io/OutputStream.html) **openOutputStream**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#openOutputStream()) Gets an OutputStream for this file object.

**Specified by:**[openOutputStream](http://docs.google.com/javax/tools/FileObject.html#openOutputStream()) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Returns:**an OutputStream **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this file object was opened for reading and does not support writing [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html) - if this kind of file object does not support byte access [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurred

### openReader

public [Reader](http://docs.google.com/java/io/Reader.html) **openReader**(boolean ignoreEncodingErrors)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#openReader(boolean)) Gets a reader for this object. The returned reader will replace bytes that cannot be decoded with the default translation character. In addition, the reader may report a diagnostic unless ignoreEncodingErrors is true.

**Specified by:**[openReader](http://docs.google.com/javax/tools/FileObject.html#openReader(boolean)) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Parameters:**ignoreEncodingErrors - ignore encoding errors if true **Returns:**a Reader **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this file object was opened for writing and does not support reading [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html) - if this kind of file object does not support character access [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurred

### getCharContent

public [CharSequence](http://docs.google.com/java/lang/CharSequence.html) **getCharContent**(boolean ignoreEncodingErrors)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#getCharContent(boolean)) Gets the character content of this file object, if available. Any byte that cannot be decoded will be replaced by the default translation character. In addition, a diagnostic may be reported unless ignoreEncodingErrors is true.

**Specified by:**[getCharContent](http://docs.google.com/javax/tools/FileObject.html#getCharContent(boolean)) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Parameters:**ignoreEncodingErrors - ignore encoding errors if true **Returns:**a CharSequence if available; null otherwise **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this file object was opened for writing and does not support reading [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html) - if this kind of file object does not support character access [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurred

### openWriter

public [Writer](http://docs.google.com/java/io/Writer.html) **openWriter**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#openWriter()) Gets a Writer for this file object.

**Specified by:**[openWriter](http://docs.google.com/javax/tools/FileObject.html#openWriter()) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Returns:**a Writer **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this file object was opened for reading and does not support writing [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html) - if this kind of file object does not support character access [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurred

### getLastModified

public long **getLastModified**()

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#getLastModified()) Gets the time this file object was last modified. The time is measured in milliseconds since the epoch (00:00:00 GMT, January 1, 1970).

**Specified by:**[getLastModified](http://docs.google.com/javax/tools/FileObject.html#getLastModified()) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Returns:**the time this file object was last modified; or 0 if the file object does not exist, if an I/O error occurred, or if the operation is not supported

### delete

public boolean **delete**()

**Description copied from interface:** [**FileObject**](http://docs.google.com/javax/tools/FileObject.html#delete()) Deletes this file object. In case of errors, returns false.

**Specified by:**[delete](http://docs.google.com/javax/tools/FileObject.html#delete()) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Returns:**true if and only if this file object is successfully deleted; false otherwise

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ForwardingFileObject.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/tools/FileObject.html)   [**NEXT CLASS**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/tools/ForwardingFileObject.html)    [**NO FRAMES**](http://docs.google.com/ForwardingFileObject.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).