| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SimpleJavaFileObject.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/OptionChecker.html)   [**NEXT CLASS**](http://docs.google.com/javax/tools/StandardJavaFileManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/tools/SimpleJavaFileObject.html)    [**NO FRAMES**](http://docs.google.com/SimpleJavaFileObject.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#tyjcwt) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

## **javax.tools**

Class SimpleJavaFileObject

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.tools.SimpleJavaFileObject**

**All Implemented Interfaces:** [FileObject](http://docs.google.com/javax/tools/FileObject.html), [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html)

public class **SimpleJavaFileObject**extends [Object](http://docs.google.com/java/lang/Object.html)implements [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html)

Provides simple implementations for most methods in JavaFileObject. This class is designed to be subclassed and used as a basis for JavaFileObject implementations. Subclasses can override the implementation and specification of any method of this class as long as the general contract of JavaFileObject is obeyed.

**Since:** 1.6

| **Nested Class Summary** | |
| --- | --- |

| **Nested classes/interfaces inherited from interface javax.tools.**[**JavaFileObject**](http://docs.google.com/javax/tools/JavaFileObject.html) |
| --- |
| [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) |

| **Field Summary** | |
| --- | --- |
| protected  [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) | [**kind**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#kind)            The kind of this file object. |
| protected  [URI](http://docs.google.com/java/net/URI.html) | [**uri**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#uri)            A URI for this file object. |

| **Constructor Summary** | |
| --- | --- |
| protected | [**SimpleJavaFileObject**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#SimpleJavaFileObject(java.net.URI,%20javax.tools.JavaFileObject.Kind))([URI](http://docs.google.com/java/net/URI.html) uri, [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) kind)            Construct a SimpleJavaFileObject of the given kind and with the given URI. |

| **Method Summary** | |
| --- | --- |
| boolean | [**delete**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#delete())()            This implementation does nothing. |
| [Modifier](http://docs.google.com/javax/lang/model/element/Modifier.html) | [**getAccessLevel**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getAccessLevel())()            This implementation returns null. |
| [CharSequence](http://docs.google.com/java/lang/CharSequence.html) | [**getCharContent**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getCharContent(boolean))(boolean ignoreEncodingErrors)            This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). |
| [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) | [**getKind**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getKind())()            Gets the kind of this file object. |
| long | [**getLastModified**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getLastModified())()            This implementation returns 0L. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getName())()            Gets a user-friendly name for this file object. |
| [NestingKind](http://docs.google.com/javax/lang/model/element/NestingKind.html) | [**getNestingKind**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getNestingKind())()            This implementation returns null. |
| boolean | [**isNameCompatible**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#isNameCompatible(java.lang.String,%20javax.tools.JavaFileObject.Kind))([String](http://docs.google.com/java/lang/String.html) simpleName, [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) kind)            This implementation compares the path of its URI to the given simple name. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | [**openInputStream**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#openInputStream())()            This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | [**openOutputStream**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#openOutputStream())()            This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). |
| [Reader](http://docs.google.com/java/io/Reader.html) | [**openReader**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#openReader(boolean))(boolean ignoreEncodingErrors)            Wraps the result of [getCharContent(boolean)](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getCharContent(boolean)) in a Reader. |
| [Writer](http://docs.google.com/java/io/Writer.html) | [**openWriter**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#openWriter())()            Wraps the result of openOutputStream in a Writer. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#toString())()            Returns a string representation of the object. |
| [URI](http://docs.google.com/java/net/URI.html) | [**toUri**](http://docs.google.com/javax/tools/SimpleJavaFileObject.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()), [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** |
| --- |

### uri

protected final [URI](http://docs.google.com/java/net/URI.html) **uri**

A URI for this file object.

### kind

protected final [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) **kind**

The kind of this file object.

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

### SimpleJavaFileObject

protected **SimpleJavaFileObject**([URI](http://docs.google.com/java/net/URI.html) uri,  
 [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) kind)

Construct a SimpleJavaFileObject of the given kind and with the given URI.

**Parameters:**uri - the URI for this file objectkind - the kind of 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)

This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). Subclasses can change this behavior as long as the contract of [FileObject](http://docs.google.com/javax/tools/FileObject.html) is obeyed.

**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:** [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)

This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). Subclasses can change this behavior as long as the contract of [FileObject](http://docs.google.com/javax/tools/FileObject.html) is obeyed.

**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:** [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)

Wraps the result of [getCharContent(boolean)](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getCharContent(boolean)) in a Reader. Subclasses can change this behavior as long as the contract of [FileObject](http://docs.google.com/javax/tools/FileObject.html) is obeyed.

**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 wrapping the result of getCharContent **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)

This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). Subclasses can change this behavior as long as the contract of [FileObject](http://docs.google.com/javax/tools/FileObject.html) is obeyed.

**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:** [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)

Wraps the result of openOutputStream in a Writer. Subclasses can change this behavior as long as the contract of [FileObject](http://docs.google.com/javax/tools/FileObject.html) is obeyed.

**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 wrapping the result of openOutputStream **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**()

This implementation returns 0L. Subclasses can change this behavior as long as the contract of [FileObject](http://docs.google.com/javax/tools/FileObject.html) is obeyed.

**Specified by:**[getLastModified](http://docs.google.com/javax/tools/FileObject.html#getLastModified()) in interface [FileObject](http://docs.google.com/javax/tools/FileObject.html) **Returns:**0L

### delete

public boolean **delete**()

This implementation does nothing. Subclasses can change this behavior as long as the contract of [FileObject](http://docs.google.com/javax/tools/FileObject.html) is obeyed.

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

### getKind

public [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) **getKind**()

**Description copied from interface:** [**JavaFileObject**](http://docs.google.com/javax/tools/JavaFileObject.html#getKind()) Gets the kind of this file object.

**Specified by:**[getKind](http://docs.google.com/javax/tools/JavaFileObject.html#getKind()) in interface [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) **Returns:**this.kind

### isNameCompatible

public boolean **isNameCompatible**([String](http://docs.google.com/java/lang/String.html) simpleName,  
 [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) kind)

This implementation compares the path of its URI to the given simple name. This method returns true if the given kind is equal to the kind of this object, and if the path is equal to simpleName + kind.extension or if it ends with "/" + simpleName + kind.extension.

This method calls [getKind()](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getKind()) and [toUri()](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#toUri()) and does not access the fields [uri](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#uri) and [kind](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#kind) directly.

Subclasses can change this behavior as long as the contract of [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) is obeyed.

**Specified by:**[isNameCompatible](http://docs.google.com/javax/tools/JavaFileObject.html#isNameCompatible(java.lang.String,%20javax.tools.JavaFileObject.Kind)) in interface [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) **Parameters:**simpleName - a simple name of a classkind - a kind **Returns:**true if this file object is compatible; false otherwise

### getNestingKind

public [NestingKind](http://docs.google.com/javax/lang/model/element/NestingKind.html) **getNestingKind**()

This implementation returns null. Subclasses can change this behavior as long as the contract of [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) is obeyed.

**Specified by:**[getNestingKind](http://docs.google.com/javax/tools/JavaFileObject.html#getNestingKind()) in interface [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) **Returns:**the nesting kind, or null if the nesting kind is not known

### getAccessLevel

public [Modifier](http://docs.google.com/javax/lang/model/element/Modifier.html) **getAccessLevel**()

This implementation returns null. Subclasses can change this behavior as long as the contract of [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) is obeyed.

**Specified by:**[getAccessLevel](http://docs.google.com/javax/tools/JavaFileObject.html#getAccessLevel()) in interface [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) **Returns:**the access level

### toString

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

**Description copied from class:** [**Object**](http://docs.google.com/java/lang/Object.html#toString()) Returns a string representation of the object. In general, the toString method returns a string that "textually represents" this object. The result should be a concise but informative representation that is easy for a person to read. It is recommended that all subclasses override this method.

The toString method for class Object returns a string consisting of the name of the class of which the object is an instance, the at-sign character `@', and the unsigned hexadecimal representation of the hash code of the object. In other words, this method returns a string equal to the value of:

getClass().getName() + '@' + Integer.toHexString(hashCode())

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of the object.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SimpleJavaFileObject.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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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.

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