| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/FileSystemView.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/swing/filechooser/FileNameExtensionFilter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/filechooser/FileView.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/filechooser/FileSystemView.html)    [**NO FRAMES**](http://docs.google.com/FileSystemView.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.swing.filechooser**

Class FileSystemView

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.swing.filechooser.FileSystemView**

public abstract class **FileSystemView**extends [Object](http://docs.google.com/java/lang/Object.html)

FileSystemView is JFileChooser's gateway to the file system. Since the JDK1.1 File API doesn't allow access to such information as root partitions, file type information, or hidden file bits, this class is designed to intuit as much OS-specific file system information as possible.

Java Licensees may want to provide a different implementation of FileSystemView to better handle a given operating system.

| **Constructor Summary** | |
| --- | --- |
| [**FileSystemView**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#FileSystemView())() |

| **Method Summary** | |
| --- | --- |
| [File](http://docs.google.com/java/io/File.html) | [**createFileObject**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#createFileObject(java.io.File,%20java.lang.String))([File](http://docs.google.com/java/io/File.html) dir, [String](http://docs.google.com/java/lang/String.html) filename)            Returns a File object constructed in dir from the given filename. |
| [File](http://docs.google.com/java/io/File.html) | [**createFileObject**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#createFileObject(java.lang.String))([String](http://docs.google.com/java/lang/String.html) path)            Returns a File object constructed from the given path string. |
| protected  [File](http://docs.google.com/java/io/File.html) | [**createFileSystemRoot**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#createFileSystemRoot(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Creates a new File object for f with correct behavior for a file system root directory. |
| abstract  [File](http://docs.google.com/java/io/File.html) | [**createNewFolder**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#createNewFolder(java.io.File))([File](http://docs.google.com/java/io/File.html) containingDir)            Creates a new folder with a default folder name. |
| [File](http://docs.google.com/java/io/File.html) | [**getChild**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getChild(java.io.File,%20java.lang.String))([File](http://docs.google.com/java/io/File.html) parent, [String](http://docs.google.com/java/lang/String.html) fileName) |
| [File](http://docs.google.com/java/io/File.html) | [**getDefaultDirectory**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getDefaultDirectory())()            Return the user's default starting directory for the file chooser. |
| [File](http://docs.google.com/java/io/File.html)[] | [**getFiles**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getFiles(java.io.File,%20boolean))([File](http://docs.google.com/java/io/File.html) dir, boolean useFileHiding)            Gets the list of shown (i.e. |
| static [FileSystemView](http://docs.google.com/javax/swing/filechooser/FileSystemView.html) | [**getFileSystemView**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getFileSystemView())() |
| [File](http://docs.google.com/java/io/File.html) | [**getHomeDirectory**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getHomeDirectory())() |
| [File](http://docs.google.com/java/io/File.html) | [**getParentDirectory**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getParentDirectory(java.io.File))([File](http://docs.google.com/java/io/File.html) dir)            Returns the parent directory of dir. |
| [File](http://docs.google.com/java/io/File.html)[] | [**getRoots**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getRoots())()            Returns all root partitions on this system. |
| [String](http://docs.google.com/java/lang/String.html) | [**getSystemDisplayName**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getSystemDisplayName(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Name of a file, directory, or folder as it would be displayed in a system file browser. |
| [Icon](http://docs.google.com/javax/swing/Icon.html) | [**getSystemIcon**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getSystemIcon(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Icon for a file, directory, or folder as it would be displayed in a system file browser. |
| [String](http://docs.google.com/java/lang/String.html) | [**getSystemTypeDescription**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#getSystemTypeDescription(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Type description for a file, directory, or folder as it would be displayed in a system file browser. |
| boolean | [**isComputerNode**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isComputerNode(java.io.File))([File](http://docs.google.com/java/io/File.html) dir)            Used by UI classes to decide whether to display a special icon for a computer node, e.g. |
| boolean | [**isDrive**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isDrive(java.io.File))([File](http://docs.google.com/java/io/File.html) dir)            Used by UI classes to decide whether to display a special icon for drives or partitions, e.g. |
| boolean | [**isFileSystem**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isFileSystem(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Checks if f represents a real directory or file as opposed to a special folder such as "Desktop". |
| boolean | [**isFileSystemRoot**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isFileSystemRoot(java.io.File))([File](http://docs.google.com/java/io/File.html) dir)            Is dir the root of a tree in the file system, such as a drive or partition. |
| boolean | [**isFloppyDrive**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isFloppyDrive(java.io.File))([File](http://docs.google.com/java/io/File.html) dir)            Used by UI classes to decide whether to display a special icon for a floppy disk. |
| boolean | [**isHiddenFile**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isHiddenFile(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Returns whether a file is hidden or not. |
| boolean | [**isParent**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isParent(java.io.File,%20java.io.File))([File](http://docs.google.com/java/io/File.html) folder, [File](http://docs.google.com/java/io/File.html) file)            On Windows, a file can appear in multiple folders, other than its parent directory in the filesystem. |
| boolean | [**isRoot**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isRoot(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Determines if the given file is a root in the navigatable tree(s). |
| [Boolean](http://docs.google.com/java/lang/Boolean.html) | [**isTraversable**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isTraversable(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Returns true if the file (directory) can be visited. |

| **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)) |

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

### FileSystemView

public **FileSystemView**()

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

### getFileSystemView

public static [FileSystemView](http://docs.google.com/javax/swing/filechooser/FileSystemView.html) **getFileSystemView**()

### isRoot

public boolean **isRoot**([File](http://docs.google.com/java/io/File.html) f)

Determines if the given file is a root in the navigatable tree(s). Examples: Windows 98 has one root, the Desktop folder. DOS has one root per drive letter, C:\, D:\, etc. Unix has one root, the "/" directory. The default implementation gets information from the ShellFolder class.

**Parameters:**f - a File object representing a directory **Returns:**true if f is a root in the navigatable tree.**See Also:**[isFileSystemRoot(java.io.File)](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isFileSystemRoot(java.io.File))

### isTraversable

public [Boolean](http://docs.google.com/java/lang/Boolean.html) **isTraversable**([File](http://docs.google.com/java/io/File.html) f)

Returns true if the file (directory) can be visited. Returns false if the directory cannot be traversed.

**Parameters:**f - the File **Returns:**true if the file/directory can be traversed, otherwise false**Since:** 1.4 **See Also:**[JFileChooser.isTraversable(java.io.File)](http://docs.google.com/javax/swing/JFileChooser.html#isTraversable(java.io.File)), [FileView.isTraversable(java.io.File)](http://docs.google.com/javax/swing/filechooser/FileView.html#isTraversable(java.io.File))

### getSystemDisplayName

public [String](http://docs.google.com/java/lang/String.html) **getSystemDisplayName**([File](http://docs.google.com/java/io/File.html) f)

Name of a file, directory, or folder as it would be displayed in a system file browser. Example from Windows: the "M:\" directory displays as "CD-ROM (M:)" The default implementation gets information from the ShellFolder class.

**Parameters:**f - a File object **Returns:**the file name as it would be displayed by a native file chooser**Since:** 1.4 **See Also:**[JFileChooser.getName(java.io.File)](http://docs.google.com/javax/swing/JFileChooser.html#getName(java.io.File))

### getSystemTypeDescription

public [String](http://docs.google.com/java/lang/String.html) **getSystemTypeDescription**([File](http://docs.google.com/java/io/File.html) f)

Type description for a file, directory, or folder as it would be displayed in a system file browser. Example from Windows: the "Desktop" folder is desribed as "Desktop". Override for platforms with native ShellFolder implementations.

**Parameters:**f - a File object **Returns:**the file type description as it would be displayed by a native file chooser or null if no native information is available.**Since:** 1.4 **See Also:**[JFileChooser.getTypeDescription(java.io.File)](http://docs.google.com/javax/swing/JFileChooser.html#getTypeDescription(java.io.File))

### getSystemIcon

public [Icon](http://docs.google.com/javax/swing/Icon.html) **getSystemIcon**([File](http://docs.google.com/java/io/File.html) f)

Icon for a file, directory, or folder as it would be displayed in a system file browser. Example from Windows: the "M:\" directory displays a CD-ROM icon. The default implementation gets information from the ShellFolder class.

**Parameters:**f - a File object **Returns:**an icon as it would be displayed by a native file chooser**Since:** 1.4 **See Also:**[JFileChooser.getIcon(java.io.File)](http://docs.google.com/javax/swing/JFileChooser.html#getIcon(java.io.File))

### isParent

public boolean **isParent**([File](http://docs.google.com/java/io/File.html) folder,  
 [File](http://docs.google.com/java/io/File.html) file)

On Windows, a file can appear in multiple folders, other than its parent directory in the filesystem. Folder could for example be the "Desktop" folder which is not the same as file.getParentFile().

**Parameters:**folder - a File object repesenting a directory or special folderfile - a File object **Returns:**true if folder is a directory or special folder and contains file.**Since:** 1.4

### getChild

public [File](http://docs.google.com/java/io/File.html) **getChild**([File](http://docs.google.com/java/io/File.html) parent,  
 [String](http://docs.google.com/java/lang/String.html) fileName)

**Parameters:**parent - a File object repesenting a directory or special folderfileName - a name of a file or folder which exists in parent **Returns:**a File object. This is normally constructed with new File(parent, fileName) except when parent and child are both special folders, in which case the File is a wrapper containing a ShellFolder object.**Since:** 1.4

### isFileSystem

public boolean **isFileSystem**([File](http://docs.google.com/java/io/File.html) f)

Checks if f represents a real directory or file as opposed to a special folder such as "Desktop". Used by UI classes to decide if a folder is selectable when doing directory choosing.

**Parameters:**f - a File object **Returns:**true if f is a real file or directory.**Since:** 1.4

### createNewFolder

public abstract [File](http://docs.google.com/java/io/File.html) **createNewFolder**([File](http://docs.google.com/java/io/File.html) containingDir)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a new folder with a default folder name.

**Throws:** [IOException](http://docs.google.com/java/io/IOException.html)

### isHiddenFile

public boolean **isHiddenFile**([File](http://docs.google.com/java/io/File.html) f)

Returns whether a file is hidden or not.

### isFileSystemRoot

public boolean **isFileSystemRoot**([File](http://docs.google.com/java/io/File.html) dir)

Is dir the root of a tree in the file system, such as a drive or partition. Example: Returns true for "C:\" on Windows 98.

**Parameters:**dir - a File object representing a directory **Returns:**true if f is a root of a filesystem**Since:** 1.4 **See Also:**[isRoot(java.io.File)](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#isRoot(java.io.File))

### isDrive

public boolean **isDrive**([File](http://docs.google.com/java/io/File.html) dir)

Used by UI classes to decide whether to display a special icon for drives or partitions, e.g. a "hard disk" icon. The default implementation has no way of knowing, so always returns false.

**Parameters:**dir - a directory **Returns:**false always**Since:** 1.4

### isFloppyDrive

public boolean **isFloppyDrive**([File](http://docs.google.com/java/io/File.html) dir)

Used by UI classes to decide whether to display a special icon for a floppy disk. Implies isDrive(dir). The default implementation has no way of knowing, so always returns false.

**Parameters:**dir - a directory **Returns:**false always**Since:** 1.4

### isComputerNode

public boolean **isComputerNode**([File](http://docs.google.com/java/io/File.html) dir)

Used by UI classes to decide whether to display a special icon for a computer node, e.g. "My Computer" or a network server. The default implementation has no way of knowing, so always returns false.

**Parameters:**dir - a directory **Returns:**false always**Since:** 1.4

### getRoots

public [File](http://docs.google.com/java/io/File.html)[] **getRoots**()

Returns all root partitions on this system. For example, on Windows, this would be the "Desktop" folder, while on DOS this would be the A: through Z: drives.

### getHomeDirectory

public [File](http://docs.google.com/java/io/File.html) **getHomeDirectory**()

### getDefaultDirectory

public [File](http://docs.google.com/java/io/File.html) **getDefaultDirectory**()

Return the user's default starting directory for the file chooser.

**Returns:**a File object representing the default starting folder**Since:** 1.4

### createFileObject

public [File](http://docs.google.com/java/io/File.html) **createFileObject**([File](http://docs.google.com/java/io/File.html) dir,  
 [String](http://docs.google.com/java/lang/String.html) filename)

Returns a File object constructed in dir from the given filename.

### createFileObject

public [File](http://docs.google.com/java/io/File.html) **createFileObject**([String](http://docs.google.com/java/lang/String.html) path)

Returns a File object constructed from the given path string.

### getFiles

public [File](http://docs.google.com/java/io/File.html)[] **getFiles**([File](http://docs.google.com/java/io/File.html) dir,  
 boolean useFileHiding)

Gets the list of shown (i.e. not hidden) files.

### getParentDirectory

public [File](http://docs.google.com/java/io/File.html) **getParentDirectory**([File](http://docs.google.com/java/io/File.html) dir)

Returns the parent directory of dir.

**Parameters:**dir - the File being queried **Returns:**the parent directory of dir, or null if dir is null

### createFileSystemRoot

protected [File](http://docs.google.com/java/io/File.html) **createFileSystemRoot**([File](http://docs.google.com/java/io/File.html) f)

Creates a new File object for f with correct behavior for a file system root directory.

**Parameters:**f - a File object representing a file system root directory, for example "/" on Unix or "C:\" on Windows. **Returns:**a new File object**Since:** 1.4

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/FileSystemView.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/swing/filechooser/FileNameExtensionFilter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/filechooser/FileView.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/filechooser/FileSystemView.html)    [**NO FRAMES**](http://docs.google.com/FileSystemView.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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.

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