| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Manifest.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/java/util/jar/JarOutputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/jar/Pack200.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/Manifest.html)    [**NO FRAMES**](http://docs.google.com/Manifest.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#17dp8vu) |

## **java.util.jar**

Class Manifest

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.util.jar.Manifest**

**All Implemented Interfaces:** [Cloneable](http://docs.google.com/java/lang/Cloneable.html)

public class **Manifest**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Cloneable](http://docs.google.com/java/lang/Cloneable.html)

The Manifest class is used to maintain Manifest entry names and their associated Attributes. There are main Manifest Attributes as well as per-entry Attributes. For information on the Manifest format, please see the  [Manifest format specification](http://docs.google.com/technotes/guides/jar/jar.html).

**Since:** 1.2 **See Also:**[Attributes](http://docs.google.com/java/util/jar/Attributes.html)

| **Constructor Summary** | |
| --- | --- |
| [**Manifest**](http://docs.google.com/java/util/jar/Manifest.html#Manifest())()            Constructs a new, empty Manifest. |
| [**Manifest**](http://docs.google.com/java/util/jar/Manifest.html#Manifest(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) is)            Constructs a new Manifest from the specified input stream. |
| [**Manifest**](http://docs.google.com/java/util/jar/Manifest.html#Manifest(java.util.jar.Manifest))([Manifest](http://docs.google.com/java/util/jar/Manifest.html) man)            Constructs a new Manifest that is a copy of the specified Manifest. |

| **Method Summary** | |
| --- | --- |
| void | [**clear**](http://docs.google.com/java/util/jar/Manifest.html#clear())()            Clears the main Attributes as well as the entries in this Manifest. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**clone**](http://docs.google.com/java/util/jar/Manifest.html#clone())()            Returns a shallow copy of this Manifest. |
| boolean | [**equals**](http://docs.google.com/java/util/jar/Manifest.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) o)            Returns true if the specified Object is also a Manifest and has the same main Attributes and entries. |
| [Attributes](http://docs.google.com/java/util/jar/Attributes.html) | [**getAttributes**](http://docs.google.com/java/util/jar/Manifest.html#getAttributes(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns the Attributes for the specified entry name. |
| [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Attributes](http://docs.google.com/java/util/jar/Attributes.html)> | [**getEntries**](http://docs.google.com/java/util/jar/Manifest.html#getEntries())()            Returns a Map of the entries contained in this Manifest. |
| [Attributes](http://docs.google.com/java/util/jar/Attributes.html) | [**getMainAttributes**](http://docs.google.com/java/util/jar/Manifest.html#getMainAttributes())()            Returns the main Attributes for the Manifest. |
| int | [**hashCode**](http://docs.google.com/java/util/jar/Manifest.html#hashCode())()            Returns the hash code for this Manifest. |
| void | [**read**](http://docs.google.com/java/util/jar/Manifest.html#read(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) is)            Reads the Manifest from the specified InputStream. |
| void | [**write**](http://docs.google.com/java/util/jar/Manifest.html#write(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes the Manifest to the specified OutputStream. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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** |
| --- |

### Manifest

public **Manifest**()

Constructs a new, empty Manifest.

### Manifest

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

Constructs a new Manifest from the specified input stream.

**Parameters:**is - the input stream containing manifest data **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occured

### Manifest

public **Manifest**([Manifest](http://docs.google.com/java/util/jar/Manifest.html) man)

Constructs a new Manifest that is a copy of the specified Manifest.

**Parameters:**man - the Manifest to copy

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

### getMainAttributes

public [Attributes](http://docs.google.com/java/util/jar/Attributes.html) **getMainAttributes**()

Returns the main Attributes for the Manifest.

**Returns:**the main Attributes for the Manifest

### getEntries

public [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[Attributes](http://docs.google.com/java/util/jar/Attributes.html)> **getEntries**()

Returns a Map of the entries contained in this Manifest. Each entry is represented by a String name (key) and associated Attributes (value). The Map permits the null key, but no entry with a null key is created by [read(java.io.InputStream)](http://docs.google.com/java/util/jar/Manifest.html#read(java.io.InputStream)), nor is such an entry written by using [write(java.io.OutputStream)](http://docs.google.com/java/util/jar/Manifest.html#write(java.io.OutputStream)).

**Returns:**a Map of the entries contained in this Manifest

### getAttributes

public [Attributes](http://docs.google.com/java/util/jar/Attributes.html) **getAttributes**([String](http://docs.google.com/java/lang/String.html) name)

Returns the Attributes for the specified entry name. This method is defined as:

return (Attributes)getEntries().get(name)

Though null is a valid name, when getAttributes(null) is invoked on a Manifest obtained from a jar file, null will be returned. While jar files themselves do not allow null-named attributes, it is possible to invoke [getEntries()](http://docs.google.com/java/util/jar/Manifest.html#getEntries()) on a Manifest, and on that result, invoke put with a null key and an arbitrary value. Subsequent invocations of getAttributes(null) will return the just-put value.

Note that this method does not return the manifest's main attributes; see [getMainAttributes()](http://docs.google.com/java/util/jar/Manifest.html#getMainAttributes()).

**Parameters:**name - entry name **Returns:**the Attributes for the specified entry name

### clear

public void **clear**()

Clears the main Attributes as well as the entries in this Manifest.

### write

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

Writes the Manifest to the specified OutputStream. Attributes.Name.MANIFEST\_VERSION must be set in MainAttributes prior to invoking this method.

**Parameters:**out - the output stream **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred**See Also:**[getMainAttributes()](http://docs.google.com/java/util/jar/Manifest.html#getMainAttributes())

### read

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

Reads the Manifest from the specified InputStream. The entry names and attributes read will be merged in with the current manifest entries.

**Parameters:**is - the input stream **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error has occurred

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) o)

Returns true if the specified Object is also a Manifest and has the same main Attributes and entries.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**o - the object to be compared **Returns:**true if the specified Object is also a Manifest and has the same main Attributes and entries**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

public int **hashCode**()

Returns the hash code for this Manifest.

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hash code value for this object.**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### clone

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

Returns a shallow copy of this Manifest. The shallow copy is implemented as follows:

public Object clone() { return new Manifest(this); }

**Overrides:**[clone](http://docs.google.com/java/lang/Object.html#clone()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a shallow copy of this Manifest**See Also:**[Cloneable](http://docs.google.com/java/lang/Cloneable.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Manifest.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/java/util/jar/JarOutputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/util/jar/Pack200.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/Manifest.html)    [**NO FRAMES**](http://docs.google.com/Manifest.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#17dp8vu) |

[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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