| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Attributes.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   [**NEXT CLASS**](http://docs.google.com/java/util/jar/Attributes.Name.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/Attributes.html)    [**NO FRAMES**](http://docs.google.com/Attributes.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#tyjcwt) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#3rdcrjn) | [METHOD](#1ksv4uv) |

## **java.util.jar**

Class Attributes

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

**All Implemented Interfaces:** [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>

public class **Attributes**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>, [Cloneable](http://docs.google.com/java/lang/Cloneable.html)

The Attributes class maps Manifest attribute names to associated string values. Valid attribute names are case-insensitive, are restricted to the ASCII characters in the set [0-9a-zA-Z\_-], and cannot exceed 70 characters in length. Attribute values can contain any characters and will be UTF8-encoded when written to the output stream. See the [JAR File Specification](http://docs.google.com/technotes/guides/jar/jar.html) for more information about valid attribute names and values.

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

| **Nested Class Summary** | |
| --- | --- |
| static class | [**Attributes.Name**](http://docs.google.com/java/util/jar/Attributes.Name.html)            The Attributes.Name class represents an attribute name stored in this Map. |

| **Nested classes/interfaces inherited from interface java.util.**[**Map**](http://docs.google.com/java/util/Map.html) |
| --- |
| [Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<[K](http://docs.google.com/java/util/Map.Entry.html),[V](http://docs.google.com/java/util/Map.Entry.html)> |

| **Field Summary** | |
| --- | --- |
| protected  [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> | [**map**](http://docs.google.com/java/util/jar/Attributes.html#map)            The attribute name-value mappings. |

| **Constructor Summary** | |
| --- | --- |
| [**Attributes**](http://docs.google.com/java/util/jar/Attributes.html#Attributes())()            Constructs a new, empty Attributes object with default size. |
| [**Attributes**](http://docs.google.com/java/util/jar/Attributes.html#Attributes(java.util.jar.Attributes))([Attributes](http://docs.google.com/java/util/jar/Attributes.html) attr)            Constructs a new Attributes object with the same attribute name-value mappings as in the specified Attributes. |
| [**Attributes**](http://docs.google.com/java/util/jar/Attributes.html#Attributes(int))(int size)            Constructs a new, empty Attributes object with the specified initial size. |

| **Method Summary** | |
| --- | --- |
| void | [**clear**](http://docs.google.com/java/util/jar/Attributes.html#clear())()            Removes all attributes from this Map. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**clone**](http://docs.google.com/java/util/jar/Attributes.html#clone())()            Returns a copy of the Attributes, implemented as follows: |
| boolean | [**containsKey**](http://docs.google.com/java/util/jar/Attributes.html#containsKey(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) name)            Returns true if this Map contains the specified attribute name (key). |
| boolean | [**containsValue**](http://docs.google.com/java/util/jar/Attributes.html#containsValue(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) value)            Returns true if this Map maps one or more attribute names (keys) to the specified value. |
| [Set](http://docs.google.com/java/util/Set.html)<[Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>> | [**entrySet**](http://docs.google.com/java/util/jar/Attributes.html#entrySet())()            Returns a Collection view of the attribute name-value mappings contained in this Map. |
| boolean | [**equals**](http://docs.google.com/java/util/jar/Attributes.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) o)            Compares the specified Attributes object with this Map for equality. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**get**](http://docs.google.com/java/util/jar/Attributes.html#get(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) name)            Returns the value of the specified attribute name, or null if the attribute name was not found. |
| [String](http://docs.google.com/java/lang/String.html) | [**getValue**](http://docs.google.com/java/util/jar/Attributes.html#getValue(java.util.jar.Attributes.Name))([Attributes.Name](http://docs.google.com/java/util/jar/Attributes.Name.html) name)            Returns the value of the specified Attributes.Name, or null if the attribute was not found. |
| [String](http://docs.google.com/java/lang/String.html) | [**getValue**](http://docs.google.com/java/util/jar/Attributes.html#getValue(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns the value of the specified attribute name, specified as a string, or null if the attribute was not found. |
| int | [**hashCode**](http://docs.google.com/java/util/jar/Attributes.html#hashCode())()            Returns the hash code value for this Map. |
| boolean | [**isEmpty**](http://docs.google.com/java/util/jar/Attributes.html#isEmpty())()            Returns true if this Map contains no attributes. |
| [Set](http://docs.google.com/java/util/Set.html)<[Object](http://docs.google.com/java/lang/Object.html)> | [**keySet**](http://docs.google.com/java/util/jar/Attributes.html#keySet())()            Returns a Set view of the attribute names (keys) contained in this Map. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**put**](http://docs.google.com/java/util/jar/Attributes.html#put(java.lang.Object,%20java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) name, [Object](http://docs.google.com/java/lang/Object.html) value)            Associates the specified value with the specified attribute name (key) in this Map. |
| void | [**putAll**](http://docs.google.com/java/util/jar/Attributes.html#putAll(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<?,?> attr)            Copies all of the attribute name-value mappings from the specified Attributes to this Map. |
| [String](http://docs.google.com/java/lang/String.html) | [**putValue**](http://docs.google.com/java/util/jar/Attributes.html#putValue(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) name, [String](http://docs.google.com/java/lang/String.html) value)            Associates the specified value with the specified attribute name, specified as a String. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**remove**](http://docs.google.com/java/util/jar/Attributes.html#remove(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) name)            Removes the attribute with the specified name (key) from this Map. |
| int | [**size**](http://docs.google.com/java/util/jar/Attributes.html#size())()            Returns the number of attributes in this Map. |
| [Collection](http://docs.google.com/java/util/Collection.html)<[Object](http://docs.google.com/java/lang/Object.html)> | [**values**](http://docs.google.com/java/util/jar/Attributes.html#values())()            Returns a Collection view of the attribute values contained in this Map. |

| **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)) |

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

### map

protected [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **map**

The attribute name-value mappings.

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

### Attributes

public **Attributes**()

Constructs a new, empty Attributes object with default size.

### Attributes

public **Attributes**(int size)

Constructs a new, empty Attributes object with the specified initial size.

**Parameters:**size - the initial number of attributes

### Attributes

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

Constructs a new Attributes object with the same attribute name-value mappings as in the specified Attributes.

**Parameters:**attr - the specified Attributes

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

### get

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

Returns the value of the specified attribute name, or null if the attribute name was not found.

**Specified by:**[get](http://docs.google.com/java/util/Map.html#get(java.lang.Object)) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**name - the attribute name **Returns:**the value of the specified attribute name, or null if not found.

### getValue

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

Returns the value of the specified attribute name, specified as a string, or null if the attribute was not found. The attribute name is case-insensitive.

This method is defined as:

return (String)get(new Attributes.Name((String)name));

**Parameters:**name - the attribute name as a string **Returns:**the String value of the specified attribute name, or null if not found. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the attribute name is invalid

### getValue

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

Returns the value of the specified Attributes.Name, or null if the attribute was not found.

This method is defined as:

return (String)get(name);

**Parameters:**name - the Attributes.Name object **Returns:**the String value of the specified Attribute.Name, or null if not found.

### put

public [Object](http://docs.google.com/java/lang/Object.html) **put**([Object](http://docs.google.com/java/lang/Object.html) name,  
 [Object](http://docs.google.com/java/lang/Object.html) value)

Associates the specified value with the specified attribute name (key) in this Map. If the Map previously contained a mapping for the attribute name, the old value is replaced.

**Specified by:**[put](http://docs.google.com/java/util/Map.html#put(K,%20V)) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**name - the attribute namevalue - the attribute value **Returns:**the previous value of the attribute, or null if none **Throws:** [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - if the name is not a Attributes.Name or the value is not a String

### putValue

public [String](http://docs.google.com/java/lang/String.html) **putValue**([String](http://docs.google.com/java/lang/String.html) name,  
 [String](http://docs.google.com/java/lang/String.html) value)

Associates the specified value with the specified attribute name, specified as a String. The attributes name is case-insensitive. If the Map previously contained a mapping for the attribute name, the old value is replaced.

This method is defined as:

return (String)put(new Attributes.Name(name), value);

**Parameters:**name - the attribute name as a stringvalue - the attribute value **Returns:**the previous value of the attribute, or null if none **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the attribute name is invalid

### remove

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

Removes the attribute with the specified name (key) from this Map. Returns the previous attribute value, or null if none.

**Specified by:**[remove](http://docs.google.com/java/util/Map.html#remove(java.lang.Object)) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**name - attribute name **Returns:**the previous value of the attribute, or null if none

### containsValue

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

Returns true if this Map maps one or more attribute names (keys) to the specified value.

**Specified by:**[containsValue](http://docs.google.com/java/util/Map.html#containsValue(java.lang.Object)) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**value - the attribute value **Returns:**true if this Map maps one or more attribute names to the specified value

### containsKey

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

Returns true if this Map contains the specified attribute name (key).

**Specified by:**[containsKey](http://docs.google.com/java/util/Map.html#containsKey(java.lang.Object)) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**name - the attribute name **Returns:**true if this Map contains the specified attribute name

### putAll

public void **putAll**([Map](http://docs.google.com/java/util/Map.html)<?,?> attr)

Copies all of the attribute name-value mappings from the specified Attributes to this Map. Duplicate mappings will be replaced.

**Specified by:**[putAll](http://docs.google.com/java/util/Map.html#putAll(java.util.Map)) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**attr - the Attributes to be stored in this map **Throws:** [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - if attr is not an Attributes

### clear

public void **clear**()

Removes all attributes from this Map.

**Specified by:**[clear](http://docs.google.com/java/util/Map.html#clear()) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>

### size

public int **size**()

Returns the number of attributes in this Map.

**Specified by:**[size](http://docs.google.com/java/util/Map.html#size()) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Returns:**the number of key-value mappings in this map

### isEmpty

public boolean **isEmpty**()

Returns true if this Map contains no attributes.

**Specified by:**[isEmpty](http://docs.google.com/java/util/Map.html#isEmpty()) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Returns:**true if this map contains no key-value mappings

### keySet

public [Set](http://docs.google.com/java/util/Set.html)<[Object](http://docs.google.com/java/lang/Object.html)> **keySet**()

Returns a Set view of the attribute names (keys) contained in this Map.

**Specified by:**[keySet](http://docs.google.com/java/util/Map.html#keySet()) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Returns:**a set view of the keys contained in this map

### values

public [Collection](http://docs.google.com/java/util/Collection.html)<[Object](http://docs.google.com/java/lang/Object.html)> **values**()

Returns a Collection view of the attribute values contained in this Map.

**Specified by:**[values](http://docs.google.com/java/util/Map.html#values()) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Returns:**a collection view of the values contained in this map

### entrySet

public [Set](http://docs.google.com/java/util/Set.html)<[Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>> **entrySet**()

Returns a Collection view of the attribute name-value mappings contained in this Map.

**Specified by:**[entrySet](http://docs.google.com/java/util/Map.html#entrySet()) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **Returns:**a set view of the mappings contained in this map

### equals

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

Compares the specified Attributes object with this Map for equality. Returns true if the given object is also an instance of Attributes and the two Attributes objects represent the same mappings.

**Specified by:**[equals](http://docs.google.com/java/util/Map.html#equals(java.lang.Object)) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>**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 equal to this Map**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 value for this Map.

**Specified by:**[hashCode](http://docs.google.com/java/util/Map.html#hashCode()) in interface [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>**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 copy of the Attributes, implemented as follows:

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

Since the attribute names and values are themselves immutable, the Attributes returned can be safely modified without affecting the original.

**Overrides:**[clone](http://docs.google.com/java/lang/Object.html#clone()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a clone of this instance.**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/Attributes.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   [**NEXT CLASS**](http://docs.google.com/java/util/jar/Attributes.Name.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/jar/Attributes.html)    [**NO FRAMES**](http://docs.google.com/Attributes.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#tyjcwt) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#3rdcrjn) | [METHOD](#1ksv4uv) |

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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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