| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractMap.SimpleEntry.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/AbstractMap.html)   [**NEXT CLASS**](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/AbstractMap.SimpleEntry.html)    [**NO FRAMES**](http://docs.google.com/AbstractMap.SimpleEntry.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**

Class AbstractMap.SimpleEntry<K,V>

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.util.AbstractMap.SimpleEntry<K,V>**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<K,V> **Enclosing class:**[AbstractMap](http://docs.google.com/java/util/AbstractMap.html)<[K](http://docs.google.com/java/util/AbstractMap.html),[V](http://docs.google.com/java/util/AbstractMap.html)>

public static class **AbstractMap.SimpleEntry<K,V>**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<K,V>, [Serializable](http://docs.google.com/java/io/Serializable.html)

An Entry maintaining a key and a value. The value may be changed using the setValue method. This class facilitates the process of building custom map implementations. For example, it may be convenient to return arrays of SimpleEntry instances in method Map.entrySet().toArray.

**Since:** 1.6 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.util.AbstractMap.SimpleEntry)

| **Constructor Summary** | |
| --- | --- |
| [**AbstractMap.SimpleEntry**](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#AbstractMap.SimpleEntry(K,%20V))([K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) key, [V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) value)            Creates an entry representing a mapping from the specified key to the specified value. |
| [**AbstractMap.SimpleEntry**](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#AbstractMap.SimpleEntry(java.util.Map.Entry))([Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<? extends [K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html),? extends [V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html)> entry)            Creates an entry representing the same mapping as the specified entry. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) o)            Compares the specified object with this entry for equality. |
| [K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) | [**getKey**](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#getKey())()            Returns the key corresponding to this entry. |
| [V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) | [**getValue**](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#getValue())()            Returns the value corresponding to this entry. |
| int | [**hashCode**](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#hashCode())()            Returns the hash code value for this map entry. |
| [V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) | [**setValue**](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#setValue(V))([V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) value)            Replaces the value corresponding to this entry with the specified value. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#toString())()            Returns a String representation of this map entry. |

| **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()), [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()), [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** |
| --- |

### AbstractMap.SimpleEntry

public **AbstractMap.SimpleEntry**([K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) key,  
 [V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) value)

Creates an entry representing a mapping from the specified key to the specified value.

**Parameters:**key - the key represented by this entryvalue - the value represented by this entry

### AbstractMap.SimpleEntry

public **AbstractMap.SimpleEntry**([Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<? extends [K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html),? extends [V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html)> entry)

Creates an entry representing the same mapping as the specified entry.

**Parameters:**entry - the entry to copy

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

### getKey

public [K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) **getKey**()

Returns the key corresponding to this entry.

**Specified by:**[getKey](http://docs.google.com/java/util/Map.Entry.html#getKey()) in interface [Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<[K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html)> **Returns:**the key corresponding to this entry

### getValue

public [V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) **getValue**()

Returns the value corresponding to this entry.

**Specified by:**[getValue](http://docs.google.com/java/util/Map.Entry.html#getValue()) in interface [Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<[K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html)> **Returns:**the value corresponding to this entry

### setValue

public [V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) **setValue**([V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html) value)

Replaces the value corresponding to this entry with the specified value.

**Specified by:**[setValue](http://docs.google.com/java/util/Map.Entry.html#setValue(V)) in interface [Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<[K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html)> **Parameters:**value - new value to be stored in this entry **Returns:**the old value corresponding to the entry

### equals

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

Compares the specified object with this entry for equality. Returns true if the given object is also a map entry and the two entries represent the same mapping. More formally, two entries e1 and e2 represent the same mapping if

(e1.getKey()==null ?  
 e2.getKey()==null :  
 e1.getKey().equals(e2.getKey()))  
 &&  
 (e1.getValue()==null ?  
 e2.getValue()==null :  
 e1.getValue().equals(e2.getValue()))

This ensures that the equals method works properly across different implementations of the Map.Entry interface.

**Specified by:**[equals](http://docs.google.com/java/util/Map.Entry.html#equals(java.lang.Object)) in interface [Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<[K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.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 - object to be compared for equality with this map entry **Returns:**true if the specified object is equal to this map entry**See Also:**[hashCode()](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#hashCode())

### hashCode

public int **hashCode**()

Returns the hash code value for this map entry. The hash code of a map entry e is defined to be:

(e.getKey()==null ? 0 : e.getKey().hashCode()) ^  
 (e.getValue()==null ? 0 : e.getValue().hashCode())

This ensures that e1.equals(e2) implies that e1.hashCode()==e2.hashCode() for any two Entries e1 and e2, as required by the general contract of [Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()).

**Specified by:**[hashCode](http://docs.google.com/java/util/Map.Entry.html#hashCode()) in interface [Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<[K](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html)>**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**the hash code value for this map entry**See Also:**[equals(java.lang.Object)](http://docs.google.com/java/util/AbstractMap.SimpleEntry.html#equals(java.lang.Object))

### toString

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

Returns a String representation of this map entry. This implementation returns the string representation of this entry's key followed by the equals character ("=") followed by the string representation of this entry's value.

**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 this map entry

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractMap.SimpleEntry.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/AbstractMap.html)   [**NEXT CLASS**](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/AbstractMap.SimpleEntry.html)    [**NO FRAMES**](http://docs.google.com/AbstractMap.SimpleEntry.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.

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).