| | [**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.SimpleImmutableEntry.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.SimpleEntry.html)   [**NEXT CLASS**](http://docs.google.com/java/util/AbstractQueue.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/AbstractMap.SimpleImmutableEntry.html)    [**NO FRAMES**](http://docs.google.com/AbstractMap.SimpleImmutableEntry.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.SimpleImmutableEntry<K,V>

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.util.AbstractMap.SimpleImmutableEntry<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.SimpleImmutableEntry<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 an immutable key and value. This class does not support method setValue. This class may be convenient in methods that return thread-safe snapshots of key-value mappings.

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

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

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.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.SimpleImmutableEntry.html) | [**getKey**](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html#getKey())()            Returns the key corresponding to this entry. |
| [V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html) | [**getValue**](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html#getValue())()            Returns the value corresponding to this entry. |
| int | [**hashCode**](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html#hashCode())()            Returns the hash code value for this map entry. |
| [V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html) | [**setValue**](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html#setValue(V))([V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html) value)            Replaces the value corresponding to this entry with the specified value (optional operation). |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.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.SimpleImmutableEntry

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

public **AbstractMap.SimpleImmutableEntry**([Map.Entry](http://docs.google.com/java/util/Map.Entry.html)<? extends [K](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html),? extends [V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.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.SimpleImmutableEntry.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.SimpleImmutableEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html)> **Returns:**the key corresponding to this entry

### getValue

public [V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.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.SimpleImmutableEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html)> **Returns:**the value corresponding to this entry

### setValue

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

Replaces the value corresponding to this entry with the specified value (optional operation). This implementation simply throws UnsupportedOperationException, as this class implements an *immutable* map entry.

**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.SimpleImmutableEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.html)> **Parameters:**value - new value to be stored in this entry **Returns:**(Does not return) **Throws:** [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html) - always

### 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.SimpleImmutableEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.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.SimpleImmutableEntry.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.SimpleImmutableEntry.html),[V](http://docs.google.com/java/util/AbstractMap.SimpleImmutableEntry.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.SimpleImmutableEntry.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.SimpleImmutableEntry.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.SimpleEntry.html)   [**NEXT CLASS**](http://docs.google.com/java/util/AbstractQueue.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/AbstractMap.SimpleImmutableEntry.html)    [**NO FRAMES**](http://docs.google.com/AbstractMap.SimpleImmutableEntry.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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