

java.util

Interface Map.Entry

Enclosing interface:

[Map](#)

public static interface **Map.Entry**

A map entry (key-value pair). The `Map.entrySet` method returns a collection-view of the map, whose elements are of this class. The *only* way to obtain a reference to a map entry is from the iterator of this collection-view. These `Map.Entry` objects are valid *only* for the duration of the iteration; more formally, the behavior of a map entry is undefined if the backing map has been modified after the entry was returned by the iterator, except through the iterator's own `remove` operation, or through the `setValue` operation on a map entry returned by the iterator.

Since:

1.2

See Also:

[Map.entrySet\(\)](#)

Method Summary

boolean	equals (Object o) Compares the specified object with this entry for equality.
Object	getKey () Returns the key corresponding to this entry.
Object	getValue () Returns the value corresponding to this entry.
int	hashCode () Returns the hash code value for this map entry.
Object	setValue (Object value) Replaces the value corresponding to this entry with the specified value (optional operation).

Method Detail

getKey

```
public Object getKey()
```

Returns the key corresponding to this entry.

Returns:

the key corresponding to this entry.

getValue

```
public Object getValue()
```

Returns the value corresponding to this entry. If the mapping has been removed from the backing map (by the iterator's remove operation), the results of this call are undefined.

Returns:

the value corresponding to this entry.

setValue

```
public Object setValue(Object value)
```

Replaces the value corresponding to this entry with the specified value (optional operation). (Writes through to the map.) The behavior of this call is undefined if the mapping has already been removed from the map (by the iterator's remove operation).

Parameters:

value - new value to be stored in this entry.

Returns:

old value corresponding to the entry.

Throws:

[UnsupportedOperationException](#) - if the put operation is not supported by the backing map.

[ClassCastException](#) - if the class of the specified value prevents it from being stored in the backing map.

[IllegalArgumentException](#) - if some aspect of this value prevents it from being stored in the backing map.

[NullPointerException](#) - the backing map does not permit null values, and the specified value is null.

equals

```
public boolean equals(Object 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.

Overrides:

[equals](#) in class [Object](#)

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:

[Object.hashCode\(\)](#), [Hashtable](#)

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.

Overrides:

[hashCode](#) in class [Object](#)

Returns:

the hash code value for this map entry.

See Also:

[Object.hashCode\(\)](#), [Object.equals\(Object\)](#), [equals\(Object\)](#)

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SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

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For further API reference and developer documentation, see [Java 2 SDK SE Developer Documentation](#). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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