

JAVA.UTIL.HASHMAP CLASS

http://www.tutorialspoint.com/java/util/java_util_hashmap.htm

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Introduction

The **java.util.HashMap** class is the Hash table based implementation of the Map interface. Following are the important points about HashMap:

- This class makes no guarantees as to the iteration order of the map; in particular, it does not guarantee that the order will remain constant over time.
- This class permits null values and the null key.

Class declaration

Following is the declaration for **java.util.HashMap** class:

```
public class HashMap<K,V>
    extends AbstractMap<K,V>
    implements Map<K,V>, Cloneable, Serializable
```

Parameters

Following is the parameter for **java.util.HashMap** class:

- **K** -- This is the type of keys maintained by this map.
- **V** -- This is the type of mapped values.

Class constructors

S.N.	Constructor & Description
1	HashMap This constructs an empty HashMap with the default initial capacity 16 and the default load factor 0.75.
2	HashMapCollection < ? extends E > c This constructs an empty HashMap with the specified initial capacity and the default load factor 0.75.
3	HashMap intinitialCapacity, floatloadFactor This constructs an empty HashMap with the specified initial capacity and load factor.
4	HashMap Map < ? extends K, ? extends V > m This constructs a new HashMap with the same mappings as the specified Map.

Class methods

S.N. Method & Description

- 1
[void clear](#)
This method removes all of the mappings from this map.
- 2
[Object clone](#)
This method returns a shallow copy of this HashMap instance, the keys and values themselves are not cloned.
- 3
[boolean containsKeyObjectkey](#)
This method returns true if this map contains a mapping for the specified key.
- 4
[boolean containsValueObjectvalue](#)
This method returns true if this map maps one or more keys to the specified value.
- 5
[Set<Map.Entry<K,V>> entrySet](#)
This method returns a Set view of the mappings contained in this map.
- 6
[V getObjectkey](#)
This method returns the value to which the specified key is mapped, or null if this map contains no mapping for the key.
- 7
[boolean isEmpty](#)
This method returns true if this map contains no key-value mapping.
- 8
[Set<K> keySet](#)
This method returns a Set view of the keys contained in this map.
- 9
[V putKkey, Vvalue](#)
This method associates the specified value with the specified key in this map.
- 10
[void putAllMap < ?extendsK, ?extendsV > m](#)
This method copies all of the mappings from the specified map to this map.
- 11
[V removeObjectkey](#)
This method removes the mapping for the specified key from this map if present.
- 12

[int size](#)

This method returns the number of key-value mappings in this map.

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[Collection<V> values](#)

This method returns a Collection view of the values contained in this map.

Methods inherited

This class inherits methods from the following classes:

- `java.util.AbstractMap`
- `java.util.Object`
- `java.util.Map`

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