

Class `java.util.Dictionary`

```
java.lang.Object
|
+----java.util.Dictionary
```

public class **Dictionary**
extends [Object](#)

The Dictionary class is the abstract parent of Hashtable, which maps keys to values. Any object can be used as a key and/or value.

See Also:

[Hashtable](#), [hashCode](#), [equals](#)

Version:

1.1, 07 Aug 1995

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o [Dictionary\(\)](#)

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o [elements\(\)](#)

Returns an enumeration of the elements.

o [get\(Object\)](#)

Gets the object associated with the specified key in the Dictionary.

o [isEmpty\(\)](#)

Returns true if the Dictionary contains no elements.

o [keys\(\)](#)

Returns an enumeration of the Dictionary's keys.

o [put\(Object, Object\)](#)

Puts the specified element into the Dictionary, using the specified key.

o [remove\(Object\)](#)

Removes the element corresponding to the key.

o [size\(\)](#)

Returns the number of elements contained within the Dictionary.

Constructors

o Dictionary

```
public Dictionary()
```

Methods

o size

```
public abstract int size()
```

Returns the number of elements contained within the Dictionary.

o isEmpty

```
public abstract boolean isEmpty()
```

Returns true if the Dictionary contains no elements.

o keys

```
public abstract Enumeration keys()
```

Returns an enumeration of the Dictionary's keys.

See Also:

elements, Enumeration

o elements

```
public abstract Enumeration elements()
```

Returns an enumeration of the elements. Use the Enumeration methods on the returned object to fetch the elements sequentially.

See Also:

keys, Enumeration

o get

```
public abstract Object get(Object key)
```

Gets the object associated with the specified key in the Dictionary.

Parameters:

key – the key in the hash table

Returns:

the element for the key or null if the key is not defined in the hash table.

See Also:

put

o put

```
public abstract Object put(Object key,  
                           Object value)
```

Puts the specified element into the Dictionary, using the specified key. The element may be retrieved by doing a `get()` with the same key. The key and the element cannot be null.

Parameters:

key – the specified hashtable key
value – the specified element

Returns:

the old value of the key, or null if it did not have one.

Throws: NullPointerException

If the value of the specified element is null.

See Also:

get

o remove

```
public abstract Object remove(Object key)
```

Removes the element corresponding to the key. Does nothing if the key is not present.

Parameters:

key – the key that needs to be removed

Returns:

the value of key, or null if the key was not found.