| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/WeakReference.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/lang/ref/SoftReference.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/lang/ref/WeakReference.html)    [**NO FRAMES**](http://docs.google.com/WeakReference.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | METHOD |

## **java.lang.ref**

Class WeakReference<T>

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.lang.ref.Reference](http://docs.google.com/java/lang/ref/Reference.html)<T>  
 **java.lang.ref.WeakReference<T>**

public class **WeakReference<T>**extends [Reference](http://docs.google.com/java/lang/ref/Reference.html)<T>

Weak reference objects, which do not prevent their referents from being made finalizable, finalized, and then reclaimed. Weak references are most often used to implement canonicalizing mappings.

Suppose that the garbage collector determines at a certain point in time that an object is [weakly reachable](http://docs.google.com/package-summary.html#reachability). At that time it will atomically clear all weak references to that object and all weak references to any other weakly-reachable objects from which that object is reachable through a chain of strong and soft references. At the same time it will declare all of the formerly weakly-reachable objects to be finalizable. At the same time or at some later time it will enqueue those newly-cleared weak references that are registered with reference queues.

**Since:** 1.2

| **Constructor Summary** | |
| --- | --- |
| [**WeakReference**](http://docs.google.com/java/lang/ref/WeakReference.html#WeakReference(T))([T](http://docs.google.com/java/lang/ref/WeakReference.html) referent)            Creates a new weak reference that refers to the given object. |
| [**WeakReference**](http://docs.google.com/java/lang/ref/WeakReference.html#WeakReference(T,%20java.lang.ref.ReferenceQueue))([T](http://docs.google.com/java/lang/ref/WeakReference.html) referent, [ReferenceQueue](http://docs.google.com/java/lang/ref/ReferenceQueue.html)<? super [T](http://docs.google.com/java/lang/ref/WeakReference.html)> q)            Creates a new weak reference that refers to the given object and is registered with the given queue. |

| **Method Summary** | |
| --- | --- |

| **Methods inherited from class java.lang.ref.**[**Reference**](http://docs.google.com/java/lang/ref/Reference.html) |
| --- |
| [clear](http://docs.google.com/java/lang/ref/Reference.html#clear()), [enqueue](http://docs.google.com/java/lang/ref/Reference.html#enqueue()), [get](http://docs.google.com/java/lang/ref/Reference.html#get()), [isEnqueued](http://docs.google.com/java/lang/ref/Reference.html#isEnqueued()) |

| **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()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [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** |
| --- |

### WeakReference

public **WeakReference**([T](http://docs.google.com/java/lang/ref/WeakReference.html) referent)

Creates a new weak reference that refers to the given object. The new reference is not registered with any queue.

**Parameters:**referent - object the new weak reference will refer to

### WeakReference

public **WeakReference**([T](http://docs.google.com/java/lang/ref/WeakReference.html) referent,  
 [ReferenceQueue](http://docs.google.com/java/lang/ref/ReferenceQueue.html)<? super [T](http://docs.google.com/java/lang/ref/WeakReference.html)> q)

Creates a new weak reference that refers to the given object and is registered with the given queue.

**Parameters:**referent - object the new weak reference will refer toq - the queue with which the reference is to be registered, or null if registration is not required

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/WeakReference.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/lang/ref/SoftReference.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/lang/ref/WeakReference.html)    [**NO FRAMES**](http://docs.google.com/WeakReference.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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[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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