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

**Uses of Class**

**java.lang.ref.Reference**

| Packages that use [Reference](http://docs.google.com/java/lang/ref/Reference.html) | |
| --- | --- |
| [**java.lang.ref**](#3znysh7) | Provides reference-object classes, which support a limited degree of interaction with the garbage collector. |

| Uses of [Reference](http://docs.google.com/java/lang/ref/Reference.html) in [java.lang.ref](http://docs.google.com/java/lang/ref/package-summary.html) | |
| --- | --- |

| Subclasses of [Reference](http://docs.google.com/java/lang/ref/Reference.html) in [java.lang.ref](http://docs.google.com/java/lang/ref/package-summary.html) | |
| --- | --- |
| class | [**PhantomReference<T>**](http://docs.google.com/java/lang/ref/PhantomReference.html)            Phantom reference objects, which are enqueued after the collector determines that their referents may otherwise be reclaimed. |
| class | [**SoftReference<T>**](http://docs.google.com/java/lang/ref/SoftReference.html)            Soft reference objects, which are cleared at the discretion of the garbage collector in response to memory demand. |
| class | [**WeakReference<T>**](http://docs.google.com/java/lang/ref/WeakReference.html)            Weak reference objects, which do not prevent their referents from being made finalizable, finalized, and then reclaimed. |

| Methods in [java.lang.ref](http://docs.google.com/java/lang/ref/package-summary.html) that return [Reference](http://docs.google.com/java/lang/ref/Reference.html) | |
| --- | --- |
| [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> | **ReferenceQueue.**[**poll**](http://docs.google.com/java/lang/ref/ReferenceQueue.html#poll())()            Polls this queue to see if a reference object is available. |
| [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> | **ReferenceQueue.**[**remove**](http://docs.google.com/java/lang/ref/ReferenceQueue.html#remove())()            Removes the next reference object in this queue, blocking until one becomes available. |
| [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> | **ReferenceQueue.**[**remove**](http://docs.google.com/java/lang/ref/ReferenceQueue.html#remove(long))(long timeout)            Removes the next reference object in this queue, blocking until either one becomes available or the given timeout period expires. |

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

[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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