| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KeyPair.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/security/KeyManagementException.html)   [**NEXT CLASS**](http://docs.google.com/java/security/KeyPairGenerator.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/KeyPair.html)    [**NO FRAMES**](http://docs.google.com/KeyPair.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.security**

Class KeyPair

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.security.KeyPair**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public final class **KeyPair**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

This class is a simple holder for a key pair (a public key and a private key). It does not enforce any security, and, when initialized, should be treated like a PrivateKey.

**See Also:**[PublicKey](http://docs.google.com/java/security/PublicKey.html), [PrivateKey](http://docs.google.com/java/security/PrivateKey.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.security.KeyPair)

| **Constructor Summary** | |
| --- | --- |
| [**KeyPair**](http://docs.google.com/java/security/KeyPair.html#KeyPair(java.security.PublicKey,%20java.security.PrivateKey))([PublicKey](http://docs.google.com/java/security/PublicKey.html) publicKey, [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) privateKey)            Constructs a key pair from the given public key and private key. |

| **Method Summary** | |
| --- | --- |
| [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) | [**getPrivate**](http://docs.google.com/java/security/KeyPair.html#getPrivate())()            Returns a reference to the private key component of this key pair. |
| [PublicKey](http://docs.google.com/java/security/PublicKey.html) | [**getPublic**](http://docs.google.com/java/security/KeyPair.html#getPublic())()            Returns a reference to the public key component of this key pair. |

| **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** |
| --- |

### KeyPair

public **KeyPair**([PublicKey](http://docs.google.com/java/security/PublicKey.html) publicKey,  
 [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) privateKey)

Constructs a key pair from the given public key and private key.

Note that this constructor only stores references to the public and private key components in the generated key pair. This is safe, because Key objects are immutable.

**Parameters:**publicKey - the public key.privateKey - the private key.

| **Method Detail** |
| --- |

### getPublic

public [PublicKey](http://docs.google.com/java/security/PublicKey.html) **getPublic**()

Returns a reference to the public key component of this key pair.

**Returns:**a reference to the public key.

### getPrivate

public [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) **getPrivate**()

Returns a reference to the private key component of this key pair.

**Returns:**a reference to the private key.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KeyPair.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/security/KeyManagementException.html)   [**NEXT CLASS**](http://docs.google.com/java/security/KeyPairGenerator.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/KeyPair.html)    [**NO FRAMES**](http://docs.google.com/KeyPair.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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