# Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS

SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes All Classes

DETAIL: FIELD | CONSTR | METHOD

org.junit

# **Class Assert**

```
public class Assert
extends java.lang.Object
```

A set of assertion methods useful for writing tests. Only failed assertions are recorded. These methods can be used directly: Assert\_assertEquals(...), however, they read better if they are referenced through static import:

```
import static org.junit.Assert.*;
...
assertEquals(...);
```

### See Also:

AssertionError

# **Constructor Summary**

byte[] actuals)

protected | Assert()

Protect constructor since it is a static only class

Asserts that two byte arrays are equal.

# **Method Summary**

Michiga	
static void	<pre>assertArrayEquals(byte[] expecteds, byte[] actuals) Asserts that two byte arrays are equal.</pre>
static void	<pre>assertArrayEquals(char[] expecteds, char[] actuals) Asserts that two char arrays are equal.</pre>
static void	<pre>assertArrayEquals(int[] expecteds, int[] actuals) Asserts that two int arrays are equal.</pre>
static void	<pre>assertArrayEquals(long[] expecteds, long[] actuals) Asserts that two long arrays are equal.</pre>
static void	<pre>assertArrayEquals(java.lang.Object[] expecteds, java.lang.Object[] actuals)    Asserts that two object arrays are equal.</pre>
static void	<pre>assertArrayEquals(short[] expecteds, short[] actuals) Asserts that two short arrays are equal.</pre>
static void	<pre>assertArrayEquals(java.lang.String message, byte[] expecteds,</pre>

static void	<pre>assertArrayEquals(java.lang.String message, char[] expecteds, char[] actuals)    Asserts that two char arrays are equal.</pre>
static void	<pre>assertArrayEquals(java.lang.String message, int[] expecteds, int[] actuals)    Asserts that two int arrays are equal.</pre>
static void	assertArrayEquals(java.lang.String message, long[] expecteds, long[] actuals)  Asserts that two long arrays are equal.
static void	<pre>assertArrayEquals(java.lang.String message, java.lang.Object[] expecteds, java.lang.Object[] actuals)     Asserts that two object arrays are equal.</pre>
static void	<pre>assertArrayEquals(java.lang.String message, short[] expecteds, short[] actuals)    Asserts that two short arrays are equal.</pre>
static void	assertEquals (double expected, double actual)  Deprecated. Use assertEquals (double expected, double actual, double epsilon) instead
static void	assertEquals (double expected, double actual, double delta) Asserts that two doubles or floats are equal to within a positive delta.
static void	assertEquals (long expected, long actual) Asserts that two longs are equal.
static void	<pre>assertEquals(java.lang.Object[] expecteds, java.lang.Object[] actuals) Deprecated.use assertArrayEquals</pre>
static void	assertEquals (java.lang.Object expected, java.lang.Object actual) Asserts that two objects are equal.
static void	assertEquals (java.lang.String message, double expected, double actual)  Deprecated. Use assertEquals (String message, double expected, double actual, double epsilon) instead
static void	assertEquals(java.lang.String message, double expected, double actual, double delta)  Asserts that two doubles or floats are equal to within a positive delta.
static void	<u>assertEquals</u> (java.lang.String message, long expected, long actual) Asserts that two longs are equal.
static void	<pre>assertEquals(java.lang.String message, java.lang.Object[] expecteds, java.lang.Object[] actuals)     Deprecated.use assertArrayEquals</pre>
static void	<pre>assertEquals(java.lang.String message, java.lang.Object expected, java.lang.Object actual)    Asserts that two objects are equal.</pre>
static void	assertFalse(boolean condition) Asserts that a condition is false.
static void	assertFalse(java.lang.String message, boolean condition) Asserts that a condition is false.
static void	assertNotNull(java.lang.Object object) Asserts that an object isn't null.
static void	assertNotNull(java.lang.String message, java.lang.Object object)

	Asserts that an object isn't null.
static void	assertNotSame(java.lang.Object unexpected, java.lang.Object actual) Asserts that two objects do not refer to the same object.
static void	assertNotSame(java.lang.String message, java.lang.Object unexpected, java.lang.Object actual)  Asserts that two objects do not refer to the same object.
static void	assertNull (java.lang.Object object) Asserts that an object is null.
static void	assertNull(java.lang.String message, java.lang.Object object) Asserts that an object is null.
static void	assertSame (java.lang.Object expected, java.lang.Object actual) Asserts that two objects refer to the same object.
static void	assertSame(java.lang.String message, java.lang.Object expected, java.lang.Object actual)  Asserts that two objects refer to the same object.
	<pre>assertThat(java.lang.String reason, T actual, org.hamcrest.Matcher<t> matcher)     Asserts that actual satisfies the condition specified by matcher.</t></pre>
static <t> void</t>	assertThat (T actual, org.hamcrest.Matcher <t> matcher) Asserts that actual satisfies the condition specified by matcher.</t>
static void	assertTrue (boolean condition) Asserts that a condition is true.
static void	assertTrue(java.lang.String message, boolean condition) Asserts that a condition is true.
static void	Fails a test with no message.
static void	fail(java.lang.String message) Fails a test with the given message.

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

# **Constructor Detail**

### Assert

protected Assert()

Protect constructor since it is a static only class

# **Method Detail**

# assertTrue

Asserts that a condition is true. If it isn't it throws an AssertionError with the given message.

### **Parameters:**

message - the identifying message for the AssertionError (null okay) condition - condition to be checked

### assertTrue

public static void assertTrue(boolean condition)

Asserts that a condition is true. If it isn't it throws an AssertionError without a message.

#### **Parameters:**

condition - condition to be checked

### assertFalse

Asserts that a condition is false. If it isn't it throws an AssertionError with the given message.

### **Parameters:**

message - the identifying message for the AssertionError (null okay) condition - condition to be checked

### assertFalse

public static void assertFalse(boolean condition)

Asserts that a condition is false. If it isn't it throws an AssertionError without a message.

#### **Parameters:**

condition - condition to be checked

### fail

public static void fail(java.lang.String message)

Fails a test with the given message.

#### **Parameters:**

message - the identifying message for the AssertionError (null okay)

#### See Also:

AssertionError

```
public static void fail()
```

Fails a test with no message.

# assertEquals

Asserts that two objects are equal. If they are not, an AssertionError is thrown with the given message. If expected and actual are null, they are considered equal.

### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expected - expected value actual - actual value
```

# assertEquals

Asserts that two objects are equal. If they are not, an AssertionError without a message is thrown. If expected and actual are null, they are considered equal.

#### **Parameters:**

```
expected - expected value actual - the value to check against expected
```

# assertArrayEquals

Asserts that two object arrays are equal. If they are not, an AssertionError is thrown with the given message. If expecteds and actuals are null, they are considered equal.

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expecteds - Object array or array of arrays (multi-dimensional array) with expected values. actuals - Object array or array of arrays (multi-dimensional array) with actual values
```

#### **Throws:**

org.junit.internal.ArrayComparisonFailure

### assertArrayEquals

Asserts that two object arrays are equal. If they are not, an AssertionError is thrown. If expected and actual are null, they are considered equal.

#### **Parameters:**

expecteds - Object array or array of arrays (multi-dimensional array) with expected values actuals - Object array or array of arrays (multi-dimensional array) with actual values

### assertArrayEquals

Asserts that two byte arrays are equal. If they are not, an AssertionError is thrown with the given message.

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expecteds - byte array with expected values. actuals - byte array with actual values
```

#### **Throws:**

org.junit.internal.ArrayComparisonFailure

### assertArrayEquals

Asserts that two byte arrays are equal. If they are not, an AssertionError is thrown.

#### **Parameters:**

```
expecteds - byte array with expected values. actuals - byte array with actual values
```

## assertArrayEquals

Asserts that two char arrays are equal. If they are not, an AssertionError is thrown with the given message.

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expecteds - char array with expected values. actuals - char array with actual values
```

### **Throws:**

org.junit.internal.ArrayComparisonFailure

## assertArrayEquals

Asserts that two char arrays are equal. If they are not, an AssertionError is thrown.

### **Parameters:**

```
expecteds - char array with expected values. actuals - char array with actual values
```

# assertArrayEquals

Asserts that two short arrays are equal. If they are not, an AssertionError is thrown with the given message.

### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expecteds - short array with expected values. actuals - short array with actual values
```

### **Throws:**

org.junit.internal.ArrayComparisonFailure

# assert Array Equals

Asserts that two short arrays are equal. If they are not, an AssertionError is thrown.

### **Parameters:**

```
expecteds - short array with expected values. actuals - short array with actual values
```

# assertArrayEquals

Asserts that two int arrays are equal. If they are not, an AssertionError is thrown with the given message.

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expecteds - int array with expected values. actuals - int array with actual values
```

#### **Throws:**

org.junit.internal.ArrayComparisonFailure

## assertArrayEquals

Asserts that two int arrays are equal. If they are not, an AssertionError is thrown.

#### **Parameters:**

```
expecteds - int array with expected values. actuals - int array with actual values
```

### assertArrayEquals

Asserts that two long arrays are equal. If they are not, an AssertionError is thrown with the given message.

### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expecteds - long array with expected values. actuals - long array with actual values
```

#### **Throws:**

org.junit.internal.ArrayComparisonFailure

### assertArrayEquals

Asserts that two long arrays are equal. If they are not, an AssertionError is thrown.

#### **Parameters:**

```
expecteds - long array with expected values. actuals - long array with actual values
```

# assertEquals

Asserts that two doubles or floats are equal to within a positive delta. If they are not, an AssertionError is thrown with the given message. If the expected value is infinity then the delta value is ignored. NaNs are considered equal: assertEquals(Double.NaN, Double.NaN, \*) passes

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay)
expected - expected value
actual - the value to check against expected
delta - the maximum delta between expected and actual for which both numbers are still
considered equal.
```

## assertEquals

Asserts that two longs are equal. If they are not, an AssertionError is thrown.

### **Parameters:**

```
expected - expected long value. actual - actual long value
```

# assertEquals

Asserts that two longs are equal. If they are not, an AssertionError is thrown with the given message.

### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expected - long expected value. actual - long actual value
```

## assertEquals

Deprecated. Use assertEquals(double expected, double actual, double epsilon) instead

# assert Equals

Deprecated. Use assertEquals(String message, double expected, double actual, double epsilon) instead

# assertEquals

Asserts that two doubles or floats are equal to within a positive delta. If they are not, an AssertionError is thrown. If the expected value is infinity then the delta value is ignored. NaNs are considered equal: assertEquals(Double.NaN, Double.NaN, \*) passes

### **Parameters:**

```
expected - expected value actual - the value to check against expected delta - the maximum delta between expected and actual for which both numbers are still considered equal.
```

### assertNotNull

Asserts that an object isn't null. If it is an AssertionError is thrown with the given message.

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) object - Object to check or null
```

### assertNotNull

```
public static void assertNotNull(java.lang.Object object)
```

Asserts that an object isn't null. If it is an AssertionError is thrown.

#### **Parameters:**

object - Object to check or null

### assertNull

Asserts that an object is null. If it is not, an AssertionError is thrown with the given message.

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) object - Object to check or null
```

### assertNull

```
public static void assertNull(java.lang.Object object)
```

Asserts that an object is null. If it isn't an AssertionError is thrown.

### **Parameters:**

object - Object to check or null

### assertSame

Asserts that two objects refer to the same object. If they are not, an AssertionError is thrown with the given message.

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expected - the expected object actual - the object to compare to expected
```

### assertSame

Asserts that two objects refer to the same object. If they are not the same, an AssertionError without a message is thrown.

#### **Parameters:**

```
expected - the expected object actual - the object to compare to expected
```

### assertNotSame

Asserts that two objects do not refer to the same object. If they do refer to the same object, an AssertionError is thrown with the given message.

### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) unexpected - the object you don't expect actual - the object to compare to unexpected
```

### assertNotSame

Asserts that two objects do not refer to the same object. If they do refer to the same object, an

AssertionError without a message is thrown.

### **Parameters:**

```
unexpected - the object you don't expect actual - the object to compare to unexpected
```

### assertEquals

### **Deprecated.** use assertArrayEquals

Asserts that two object arrays are equal. If they are not, an AssertionError is thrown with the given message. If expecteds and actuals are null, they are considered equal.

#### **Parameters:**

```
message - the identifying message for the AssertionError (null okay) expecteds - Object array or array of arrays (multi-dimensional array) with expected values. actuals - Object array or array of arrays (multi-dimensional array) with actual values
```

# assert Equals

### **Deprecated.** use assertArrayEquals

Asserts that two object arrays are equal. If they are not, an AssertionError is thrown. If expected and actual are null, they are considered equal.

#### **Parameters:**

expecteds - Object array or array of arrays (multi-dimensional array) with expected values actuals - Object array or array of arrays (multi-dimensional array) with actual values

### assertThat

Asserts that actual satisfies the condition specified by matcher. If not, an AssertionError is thrown with information about the matcher and failing value. Example:

```
assertThat(0, is(1)); // fails:
  // failure message:
  // expected: is <1>
  // got value: <0>
assertThat(0, is(not(1))) // passes
```

### **Type Parameters:**

T - the static type accepted by the matcher (this can flag obvious compile-time problems such as assertThat(1, is("a"))

#### **Parameters:**

actual - the computed value being compared
matcher - an expression, built of Matchers, specifying allowed values

### See Also:

CoreMatchers, <u>JUnitMatchers</u>

### assertThat

Asserts that actual satisfies the condition specified by matcher. If not, an AssertionError is thrown with the reason and information about the matcher and failing value. Example:

```
assertThat("Help! Integers don't work", 0, is(1)); // fails:
    // failure message:
    // Help! Integers don't work
    // expected: is <1>
    // got value: <0>
assertThat("Zero is one", 0, is(not(1))) // passes
```

### **Type Parameters:**

T - the static type accepted by the matcher (this can flag obvious compile-time problems such as assertThat(1, is("a"))

#### **Parameters:**

reason - additional information about the error actual - the computed value being compared matcher - an expression, built of Matchers, specifying allowed values

### See Also:

CoreMatchers, <u>JUnitMatchers</u>

### Overview Package Class Tree Deprecated Index Help

PREV CLASS NEXT CLASS
SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES All Classes
DETAIL: FIELD | CONSTR | METHOD