

JSUnit



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Supported Clients

SmartClient WebClient NGClient MobileClient

Methods Summary

void	assertEquals(expected, actual)	Asserts that two values are equal.
void	assertEquals(message, expected, actual)	Asserts that two values are equal.
void	assertFalse(boolean_condition)	Asserts that a condition is false.
void	assertFalse(message, boolean_condition)	Asserts that a condition is false.
void	assertFloatEquals(expectedFloat, actualFloat, tolerance)	Asserts that two floating point values are equal to within a given tolerance.
void	assertFloatEquals(message, expectedFloat, actualFloat, tolerance)	Asserts that two floating point values are equal to within a given tolerance.
void	assertMatches(regularExpression, actualString)	Asserts that a regular expression matches a string.
void	assertMatches(message, regularExpression, actualString)	Asserts that a regular expression matches a string.
void	assertNotNull(object)	Asserts that an object is not null.
void	assertNotNull(message, object)	Asserts that an object is not null.
void	assertNotSame(notExpected, actual)	Asserts that two values are not the same.
void	assertNotSame(message, notExpected, actual)	Asserts that two values are not the same.
void	assertNotUndefined(definedObject)	Asserts that an object is not undefined.
void	assertNotUndefined(message, definedObject)	Asserts that an object is not undefined.
void	assertNull(nullValue)	Asserts that an object is null.
void	assertNull(message, nullValue)	Asserts that an object is null.
void	assertSame(expected, actual)	Asserts that two values are the same.
void	assertSame(message, expected, actual)	Asserts that two values are the same.
void	assertTrue(boolean_condition)	Asserts that a condition is true.
void	assertTrue(message, boolean_condition)	Asserts that a condition is true.
void	assertUndefined(undefinedValue)	Asserts that an object is undefined.
void	assertUndefined(message, undefinedValue)	Asserts that an object is undefined.
void	fail(message)	Fails a test.
void	fail(message, instanceOfCallStack)	Fails a test.
void	fail(message, instanceOfCallStack, userMessage)	Fails a test.

Methods Details

assertEquals(expected, actual)

Asserts that two values are equal. `AssertionFailedError` is thrown if the actual value does not match the regular expression.

Parameters

- `Object` expected the expected value.
- `Object` actual the actual value.

Supported Clients

SmartClient,WebClient,NGClient,MobileClient

Sample

```
// Asserts that two values are equal. AssertionFailedError is thrown if the actual value does not match the regular expression.
jsunit.assertEquals("Solution name test", "someSolution", application.getSolutionName());
jsunit.assertEquals("Simple math test", 2, 1 + 1);
```

assertEquals(message, expected, actual)

Asserts that two values are equal. `AssertionFailedError` is thrown if the actual value does not match the regular expression.

Parameters

`String` message The test description/message.
`Object` expected the expected value.
`Object` actual the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that two values are equal. AssertionError is thrown if the actual value does not match the
regular expression.
jsunit.assertEquals("Solution name test", "someSolution", application.getSolutionName());
jsunit.assertEquals("Simple math test", 2, 1 + 1);
```

assertFalse(boolean_condition)

Asserts that a condition is false. `AssertionFailedError` is thrown if the evaluation was not false.

Parameters

`Boolean` boolean_condition the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that a condition is false. AssertionError is thrown if the evaluation was not false.
jsunit.assertFalse("False test", application.isLastPrintPreviewPrinted());
```

assertFalse(message, boolean_condition)

Asserts that a condition is false. `AssertionFailedError` is thrown if the evaluation was not false.

Parameters

`String` message The test description/message.
`Boolean` boolean_condition the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that a condition is false. AssertionError is thrown if the evaluation was not false.
jsunit.assertFalse("False test", application.isLastPrintPreviewPrinted());
```

assertFloatEquals(expectedFloat, actualFloat, tolerance)

Asserts that two floating point values are equal to within a given tolerance. `AssertionFailedError` is thrown if the expected value is not within the tolerance of the actual one.

Parameters

`Number` expectedFloat the expected value.
`Number` actualFloat the actual value.
`Number` tolerance tolerance when comparing.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that two floating point values are equal to within a given tolerance. AssertionError is thrown
if the expected value is not within the tolerance of the actual one.
jsunit.assertFloatEquals("Float equals test", 3.12, 3.121, 0.0015);
```

assertFloatEquals(message, expectedFloat, actualFloat, tolerance)

Asserts that two floating point values are equal to within a given tolerance. `AssertionFailedError` is thrown if the expected value is not within the tolerance of the actual one.

Parameters

`String` message The test description/message.
`Number` expectedFloat the expected value.
`Number` actualFloat the actual value.
`Number` tolerance tolerance when comparing.

Supported Clients

SmartClient,WebClient,NGClient,MobileClient

Sample

```
// Asserts that two floating point values are equal to within a given tolerance. AssertionError is thrown
if the expected value is not within the tolerance of the actual one.
jsunit.assertFloatEquals("Float equals test", 3.12, 3.121, 0.0015);
```

assertMatches(regularExpression, actualString)

Asserts that a regular expression matches a string. `AssertionFailedError` is thrown if the expected value is not the actual one.

Parameters

`Object` regularExpression the regular expression used for matching.
`String` actualString the actual value to be matched.

Supported Clients

SmartClient,WebClient,NGClient,MobileClient

Sample

```
// Asserts that a regular expression matches a string. AssertionError is thrown if the expected value is
not the actual one.
jsunit.assertMatches(new RegExp("gr(a|e)y"), "gray");
```

assertMatches(message, regularExpression, actualString)

Asserts that a regular expression matches a string. `AssertionFailedError` is thrown if the expected value is not the actual one.

Parameters

`String` message The test description/message.
`Object` regularExpression the regular expression used for matching.
`String` actualString the actual value to be matched.

Supported Clients

SmartClient,WebClient,NGClient,MobileClient

Sample

```
// Asserts that a regular expression matches a string. AssertionError is thrown if the expected value is
not the actual one.
jsunit.assertMatches("Match test", new RegExp("gr(a|e)y"), "gray");
```

assertNotNull(object)

Asserts that an object is not null. `AssertionFailedError` is thrown if the object is not null.

Parameters

`Object` object the actual value.

Supported Clients

SmartClient,WebClient,NGClient,MobileClient

Sample

```
// Asserts that an object is not null. AssertionError is thrown if the object is not null.
var a; // this is undefined, not null
jsunit.assertNotNull(a);
```

assertNotNull(message, object)

Asserts that an object is not null. `AssertionFailedError` is thrown if the object is not null.

Parameters

`String` message The test description/message.
`Object` object the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that an object is not null. AssertionError is thrown if the object is not null.
var a; // this is undefined, not null
jsunit.assertNotNull("Not null test", a);
```

assertNotSame(notExpected, actual)

Asserts that two values are not the same. `AssertionFailedError` is thrown if the expected value is the actual one.

Parameters

`Object` notExpected the value that is not expected.
`Object` actual the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that two values are not the same. AssertionError is thrown if the expected value is the actual
one.
var a = new Date(1990, 1, 1);
var b = new Date(1990, 1, 1);
jsunit.assertNotSame(a, b);
jsunit.assertEquals("But equals", a, b);
```

assertNotSame(message, notExpected, actual)

Asserts that two values are not the same. `AssertionFailedError` is thrown if the expected value is the actual one.

Parameters

`String` message The test description/message.
`Object` notExpected the value that is not expected.
`Object` actual the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that two values are not the same. AssertionError is thrown if the expected value is the actual
one.
var a = new Date(1990, 1, 1);
var b = new Date(1990, 1, 1);
jsunit.assertNotSame("Not same test", a, b);
jsunit.assertEquals("But equals", a, b);
```

assertNotUndefined(definedObject)

Asserts that an object is not undefined. `AssertionFailedError` is thrown if the object is undefined.

Parameters

`Object` definedObject the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that an object is not undefined. AssertionError is thrown if the object is undefined.
var a = 0;
jsunit.assertNotUndefined(a);
```

assertNotUndefined(message, definedObject)

Asserts that an object is not undefined. `AssertionFailedError` is thrown if the object is undefined.

Parameters

`String` message The test description/message.
`Object` definedObject the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that an object is not undefined. AssertionFailedError is thrown if the object is undefined.
var a = 0;
jsunit.assertNotUndefined("Not undefined test", a);
```

assertNull(nullValue)

Asserts that an object is null. `AssertionFailedError` is thrown if the object is not null.

Parameters

`Object` nullValue the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that an object is null. AssertionFailedError is thrown if the object is not null.
jsunit.assertNull("Null test", null);
```

assertNull(message, nullValue)

Asserts that an object is null. `AssertionFailedError` is thrown if the object is not null.

Parameters

`String` message The test description/message.
`Object` nullValue the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that an object is null. AssertionFailedError is thrown if the object is not null.
jsunit.assertNull("Null test", null);
```

assertSame(expected, actual)

Asserts that two values are the same. `AssertionFailedError` is thrown if the expected value is not the actual one.

Parameters

`Object` expected the expected value.
`Object` actual the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that two values are the same. AssertionFailedError is thrown if the expected value is not the actual one.
var a = new Date(1990, 1, 1);
var b = a;
jsunit.assertSame(a, b);
```

assertSame(message, expected, actual)

Asserts that two values are the same. `AssertionFailedError` is thrown if the expected value is not the actual one.

Parameters

`String` message The test description/message.
`Object` expected the expected value.
`Object` actual the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that two values are the same. AssertionError is thrown if the expected value is not the actual one.
var a = new Date(1990, 1, 1);
var b = a;
jsunit.assertSame("Same test", a, b);
```

assertTrue(boolean_condition)

Asserts that a condition is true. `AssertionFailedError` is thrown if the evaluation was not true.

Parameters

`Boolean` boolean_condition the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that a condition is true. AssertionError is thrown if the evaluation was not true.
jsunit.assertTrue("True test", application.isLastPrintPreviewPrinted());
```

assertTrue(message, boolean_condition)

Asserts that a condition is true. `AssertionFailedError` is thrown if the evaluation was not true.

Parameters

`String` message The test description/message.
`Boolean` boolean_condition the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that a condition is true. AssertionError is thrown if the evaluation was not true.
jsunit.assertTrue("True test", application.isLastPrintPreviewPrinted());
```

assertUndefined(undefinedValue)

Asserts that an object is undefined. `AssertionFailedError` is thrown if the object is defined.

Parameters

`Object` undefinedValue the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that an object is undefined. AssertionError is thrown if the object is defined.
jsunit.assertUndefined("Undefined test", thisIsUndefined);
```

assertUndefined(message, undefinedValue)

Asserts that an object is undefined. `AssertionFailedError` is thrown if the object is defined.

Parameters

`String` message The test description/message.
`Object` undefinedValue the actual value.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Asserts that an object is undefined. AssertionError is thrown if the object is defined.
jsunit.assertUndefined(thisIsUndefined);
```

fail(message)

Fails a test. AssertionError is always thrown.

Parameters

String message The test description/message. This is usually the only parameter specified when calling this method.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Fails a test. AssertionError is always thrown.
jsunit.fail("Fail test");
jsunit.fail("test", null, "Fail"); // 2nd param is not used in Servoy, params 3 and 1 get merged to form a
message. The result is the same as in the line above.
```

fail(message, instanceOfCallStack)

Fails a test. AssertionError is always thrown.

Parameters

String message The test description/message. This is usually the only parameter specified when calling this method.

Object instanceOfCallStack an internal JSUnit call stack. Use null for this if you want to get to the next optional parameter. Usually not specified.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Fails a test. AssertionError is always thrown.
jsunit.fail("Fail test");
jsunit.fail("test", null, "Fail"); // 2nd param is not used in Servoy, params 3 and 1 get merged to form a
message. The result is the same as in the line above.
```

fail(message, instanceOfCallStack, userMessage)

Fails a test. AssertionError is always thrown.

Parameters

String message The test description/message. This is usually the only parameter specified when calling this method.

Object instanceOfCallStack an internal JSUnit call stack. Use null for this if you want to get to the next optional parameter. Usually not specified.

String userMessage a user message. Usually not specified.

Supported Clients

SmartClient, WebClient, NGClient, MobileClient

Sample

```
// Fails a test. AssertionError is always thrown.
jsunit.fail("Fail test");
jsunit.fail("test", null, "Fail"); // 2nd param is not used in Servoy, params 3 and 1 get merged to form a
message. The result is the same as in the line above.
```