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Currently v1.0.1

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QUnit

QUnit is a JavaScript unit testing framework.

Minimal Setup

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>QUnit Example</title>
  <link rel="stylesheet" href="//code.jquery.com/qunit/qunit-1.18.0.
css">
</head>
<body>
  <div id="qunit"></div>
  <div id="qunit-fixture"></div>
  <script src="//code.jquery.com/qunit/qunit-1.18.0.js"></script>
  <script src="tests.js"></script>
```

```
</body>
</html>
```

Assertions

- `ok(truthy [, message]` - A boolean check, passes if the first argument is truthy.

```
QUnit.test( "ok test", function( assert ) {
  assert.ok( true, "true succeeds" );
  assert.ok( "non-empty", "non-empty string succeeds" );

  assert.ok( false, "false fails" );
  assert.ok( 0, "0 fails" );
  assert.ok( NaN, "NaN fails" );
  assert.ok( "", "empty string fails" );
  assert.ok( null, "null fails" );
  assert.ok( undefined, "undefined fails" );
});
```

- `equal(value, expected[, message])` - Verify the value provided is equal the expected parameter using a non-strict comparison (==).

```
QUnit.test( "equal test", function( assert ) {
  assert.equal( 0, 0, "Zero, Zero; equal succeeds" );
  assert.equal( "", 0, "Empty, Zero; equal succeeds" );
  assert.equal( "", "", "Empty, Empty; equal succeeds" );
  assert.equal( 0, false, "Zero, false; equal succeeds" );

  assert.equal( "three", 3, "Three, 3; equal fails" );
  assert.equal( null, false, "null, false; equal fails" );
});
```

Compared to `ok()`, `equal()` makes it much easier to debug tests that failed, because it's obvious which value caused the test to fail.

When you need a strict comparison (`===`), use `strictEqual()` instead.

- `deepEqual(value, expected[, message])` - A recursive, strict comparison that works on all the JavaScript types. The assertion passes if value and expected are identical in terms of properties, values, and they have the same prototype.

```
QUnit.test( "deepEqual test", function( assert ) {
  var obj = { foo: "bar" };

  assert.deepEqual( obj, { foo: "bar" }, "Two objects can be the sam
```

```
e in value" );
});
```

- `notDeepEqual(actual, expected[, message])` - Same as `deepEqual()` but tests for inequality.

```
QUnit.test( "notDeepEqual test", function( assert ) {
    var obj = { foo: "bar" };

    assert.notDeepEqual( obj, { foo: "bla" }, "Different object, same
    key, different value, not equal" );
});
```

- `notEqual(actual, expected[, message])` - A non-strict comparison, checking for inequality.

```
QUnit.test( "a test", function( assert ) {
    assert.notEqual( 1, "2", "String '2' and number 1 don't have the s
    ame value" );
});
```

- `propEqual(value, expected[, message])` - A strict comparison of the properties and values of an object. The assertion passes if all the properties and the values are identical.

```
QUnit.test( "propEqual test", function( assert ) {
    function Foo( x, y, z ) {
        this.x = x;
        this.y = y;
        this.z = z;
    }
    Foo.prototype.doA = function () {};
    Foo.prototype.doB = function () {};
    Foo.prototype.bar = 'prototype';

    var foo = new Foo( 1, "2", [] );
    var bar = {
        x : 1,
        y : "2",
        z : []
    };

    assert.propEqual( foo, bar, "Strictly the same properties without
    comparing objects constructors." );
});
```

- `strictEqual(actual, expected[, message])` - Verify the value provided is equal to the expected parameter using a strict comparison (`===`);

```
QUnit.test( "strictEqual test", function( assert ) {
    assert.strictEqual( 1, 1, "1 and 1 have the same value and type"
);
});
```

- `notPropEqual(actual, expected[, message])` - A strict comparison of an object's own properties, checking for inequality.

```
QUnit.test( "notPropEqual test", function( assert ) {
    function Foo( x, y, z ) {
        this.x = x;
        this.y = y;
        this.z = z;
    }
    Foo.prototype.doA = function () {};
    Foo.prototype.doB = function () {};
    Foo.prototype.bar = 'prototype';

    var foo = new Foo( 1, "2", [] );
    var bar = new Foo( "1", 2, {} );
    assert.notPropEqual( foo, bar, "Properties values are strictly compared." );
});
```

- `notStrictEqual(actual, expected[, message])` - Same as `strictEqual()` but tests for inequality

```
QUnit.test( "a test", function( assert ) {
    assert.notStrictEqual( 1, "1", "String '1' and number 1 have the same value but not the same type" );
});
```

- `throws(function [, expected] [, message])` - Test if a callback throws an exception, and optionally compare the thrown error;

```
QUnit.test( "throws", function( assert ) {

    function CustomError( message ) {
        this.message = message;
    }

    CustomError.prototype.toString = function() {
        return this.message;
    };

    assert.throws(
        function() {
            throw "error"
        }
    );
});
```

```
    },
    "throws with just a message, not using the 'expected' argument"
  );

assert.throws(
  function() {
    throw new CustomError("some error description");
  },
  /description/,
  "raised error message contains 'description'"
);

assert.throws(
  function() {
    throw new CustomError();
  },
  CustomError,
  "raised error is an instance of CustomError"
);

assert.throws(
  function() {
    throw new CustomError("some error description");
  },
  new CustomError("some error description"),
  "raised error instance matches the CustomError instance"
);

assert.throws(
  function() {
    throw new CustomError("some error description");
  },
  function( err ) {
    return err.toString() === "some error description";
  },
  "raised error instance satisfies the callback function"
);
});
```