

TEST THE WEB FORWARD

Testharness.js

April 12th 2013

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Microsoft Internet Explorer

- ▶ Javascript library
- ▶ Created by James Graham (Opera)
- ▶ Used by 10,000+ W3C Tests
- ▶ Best choice when test can do validation via script (e.g. 'DOM')
- ▶ Supports Sync and Async Tests
- ▶ Contains many 'assert_*'

WHAT IS TESTHARNESS.JS?

<http://w3c-test.org/web-platform-tests/master/html/dom/dynamic-markup-insertion/document-write/001.html>

OPEN THIS LINK AND LOOK AT THE SOURCE

SYNC TEST!

A decorative graphic consisting of several parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

The image shows a browser window with two tabs. The active tab is titled 'document.write' and shows a test result page from w3c-test.org. The page displays 'PASS' at the top, followed by a 'Summary' section with the heading 'Found 1 tests' and a checkmark next to '1 Pass'. Below this is a 'Details' section with a table:

Result	Test Name
PASS	document.write

The second tab is titled 'http://w3c-test.org/web-platform-tests/mas...' and shows the source code of the test. The code is as follows:

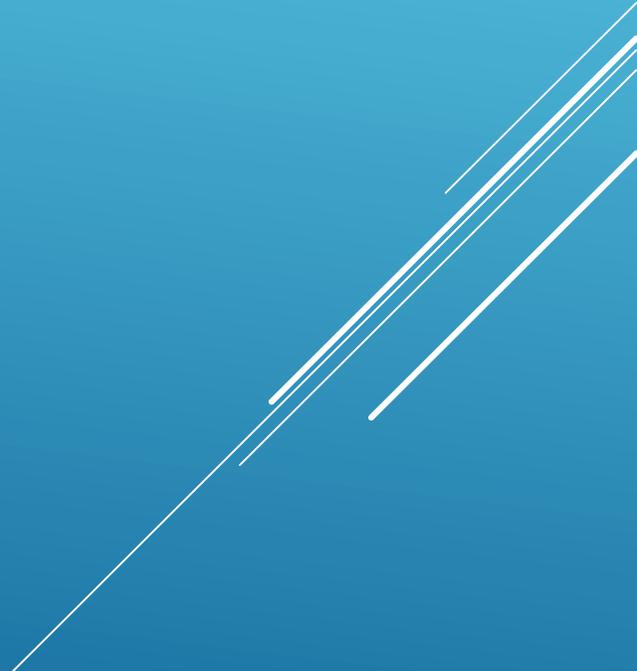
```
1 <!doctype html>
2 <title>document.write</title>
3 <script src="/resources/testharness.js"></script>
4 <script src="/resources/testharnessreport.js"></script>
5 <script>
6 test(
7   function() {
8     document.write("PASS");
9     assert_equals(document.body.textContent, "PASS");
10  }
11 );
12 <div id="log"></div>
13
```

12 LINES !

<http://w3c-test.org/resources/apisample2.htm>

OPEN THIS LINK AND LOOK AT THE SOURCE

ASYNC TEST!

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Sample HTML5 API Tests

There should be two results

Summary

Found 2 tests

2 Pass

Details

Result

PASS	Test 0
PASS	Test 1

```
1 <!DOCTYPE HTML>
2 <html>
3 <head>
4 <title>Sample HTML5 API Tests</title>
5 </head>
6 <body onload="load_test_attr.done()">
7 <h1>Sample HTML5 API Tests</h1>
8 <p>There should be two results</p>
9 <div id="log"></div>
10 <script src="testharness.js"></script>
11 <script src="testharnessreport.js"></script>
12 <script>
13 setup({explicit_done:true})
14 test(function() {assert_true(true)}, "Test defined before onload");
15
16 onload = function() {test(function (){assert_true(true)}, "Test defined after onload");
17 done();
18 }
19 </script>
```

19 LINES 2 TESTS !!

- ▶ Use relative path `/resource/testharness.js`
- ▶ Run multiple tests in one page
- ▶ Read the ~300 line comment in `testharness.js` (really it's quite good!)
- ▶ Look at the three example pages
 - ▶ <http://w3c-test.org/resources/apisample.htm>
 - ▶ <http://w3c-test.org/resources/apisample2.htm>
 - ▶ <http://w3c-test.org/resources/apisample3.htm>

GITHUB

<https://github.com/w3c/testharness.js/commits/master/testharness.js>

Explore

<http://www.w3c-test.org/>

HOW TO BECOME AN EXPERT