Status Report – May 2011

test262
Agenda

- Site changes since previous TC39 Meeting
- Test coverage
- Path to test262 “RTM”
Changes since previous TC39 Meeting

- Site certificate issue on http://bugs.ecmascript.org fixed (thanks Dave!)
- Roughly 450 (mostly Strict Mode) test case additions since March
- Sputnik negative test semantics preserved
- More of Sputnik (positive/negative) test case metadata preserved
- Many small bug fixes
Test Coverage
ES5 Additions Completely Missing Tests

None known*
## Test Coverage

### ES5 Additions With Insufficient Coverage

<table>
<thead>
<tr>
<th>Section</th>
<th>Existing Tests</th>
<th>Missing Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 10</td>
<td>107</td>
<td>None known</td>
</tr>
</tbody>
</table>
Path to test262 *RTM* (aka 1.0) Proposal

1. Develop test262 into the most comprehensive JavaScript test suite publicly available
2. Identify and fill test holes discovered in test262’s coverage of ES5
3. Cleanup
4. Continue with periodic test case updates as needed*
Path to test262 *RTM* (aka 1.0)

**Goals**

test262 viewed *positively* by the web community and JavaScript implementers:
- Holes in test coverage identified and filled
- User-reported website bugs fixed
- Remaining invalid tests identified and either fixed or disabled
- test262 RTMs within *six* months of test262 officially being labeled as Beta
# Path to test262 RTM (aka 1.0)

**Levels of Investment**

<table>
<thead>
<tr>
<th>Minimal</th>
<th>Expected</th>
<th>Full</th>
</tr>
</thead>
<tbody>
<tr>
<td>Must-fix website issues.</td>
<td>Normal priority website issues/features resolved.</td>
<td>• Test “Search” feature</td>
</tr>
<tr>
<td>Cost: 10.75 hours</td>
<td>Cost: +29 hours</td>
<td>• HTML’ized spec w/ tests embedded</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost: +205 hours</td>
</tr>
<tr>
<td>Must-fix harness issues.</td>
<td>Normal priority harness issues/features.</td>
<td>• Non-ES5 extensions to harness</td>
</tr>
<tr>
<td>Cost: 40 hours</td>
<td>Cost: +80 hours</td>
<td>• Etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost: +20 hours</td>
</tr>
<tr>
<td>Must-fix test case defects/holes.</td>
<td>Normal test case defects/holes.</td>
<td>• Academic-like review of existing test coverage</td>
</tr>
<tr>
<td>Cost: 89 hours</td>
<td>Cost: +31 hours</td>
<td>• Etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost: +322 hours</td>
</tr>
</tbody>
</table>

**Notes (this slide only)**

Priorities correlate to work item priorities on [http://bugs.ecmascript.org](http://bugs.ecmascript.org):
- Minimal ➔ High Priority
- Expected ➔ Normal Priority
- Full ➔ Low Priority

Costing also based on bugs.ecmascript.org costing and *high-quality* implementations. A lower quality resolution implies less costing.
Server powering test262.ecmascript.org seems a bit sluggish
Root access to test262.ecmascript.org
Many disabled Sputnik tests today