

Status Report – March 2011

# Test262

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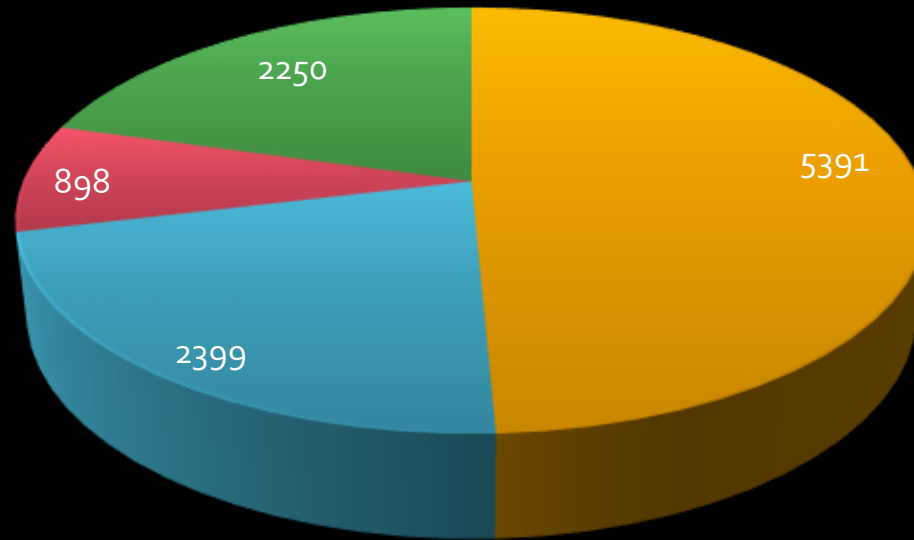
# Agenda

- Site changes since previous TC39 Meeting
- Test coverage
- “Test262 **Beta**”
- Invalid (valid) tests
- Community contributions?

# Site changes since previous TC39 Meeting

- Have a working bug tracker and community involvement. Thanks Mozilla!
- Roughly 3,000 test case additions since January
- Test cases are now in JSON format
- (Most) invalid test cases disabled
- Many small bug fixes

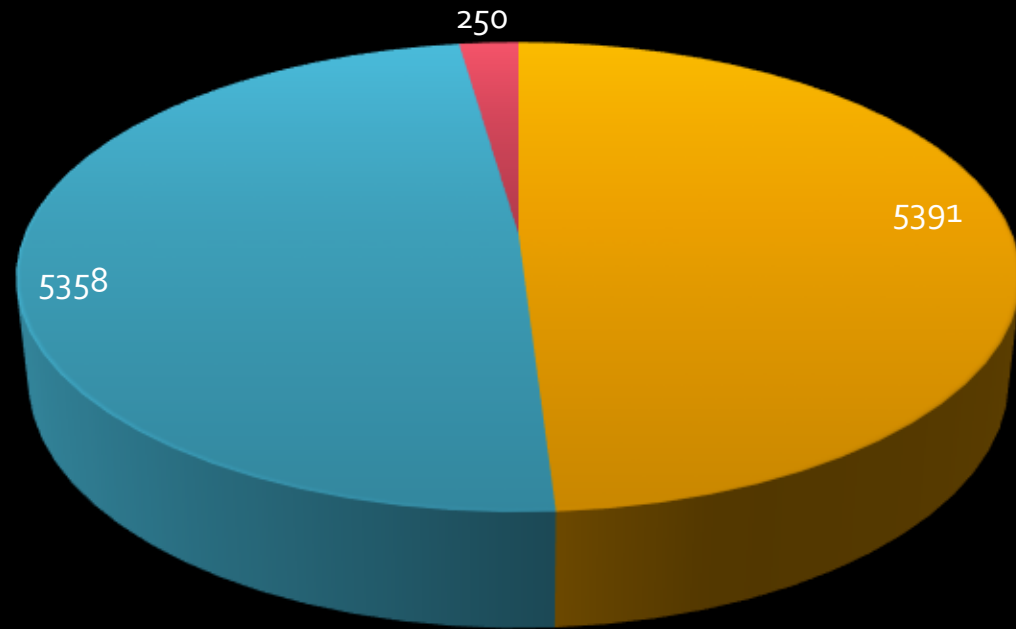
# Test Coverage Big Picture (January)



- ES3 - Google submissions
- ES5 (additions/changes from ES3) - Microsoft submissions
- ES5 (additions/changes from ES3) - anticipated soon from Microsoft
- ES5 (additions/changes from ES3) - estimated missing coverage

# Test Coverage

## Big Picture (March)



- ES<sub>3</sub> - Google submissions
- ES<sub>5</sub> (additions/changes from ES<sub>3</sub>) - Microsoft submissions
- ES<sub>5</sub> (additions/changes from ES<sub>3</sub>) - estimated missing coverage

# Test Coverage

## ES5 Additions Completely Missing Tests

Section	Estimated Missing Tests
Annex C et al. (Strict Mode)	250

# Test Coverage

## ES5 Additions With Insufficient Coverage

Section	Existing Tests	Estimated Missing Tests
Chapter 10	107	???

# Path to Test262 *Beta* (aka 0.9)

- ~~Bug tracking system~~
- ~~Google contributor's agreement to ECMA~~
- Sufficient test coverage including Strict Mode...

Strict Mode test cases are out there today – someone just needs to sign a contributor agreement and officially contribute them 😊

In the meantime, does ~95% → Beta?



# Invalid Valid Tests

ES5 doesn't allow "\1" but...

...FireFox 4, Chrome 10, Opera 11, and IE9 do 😊

and for that matter so does ES5:

An implementation may extend program syntax and regular expression pattern or flag syntax. To permit this, all operations (such as calling **eval**, using a regular expression literal, or using the **Function** or **RegExp** constructor) that are allowed to throw **SyntaxError** are permitted to exhibit implementation-defined behaviour instead of throwing **SyntaxError** when they encounter an implementation-defined extension to the program syntax or regular expression pattern or flag syntax.

\* Annex B also covers octals in strings as a suggested extension

➔ Can we not have negative grammar tests?

# Invalid Valid Tests (cont.)

## PROPOSAL

We allow negative grammar tests, but will immediately disable or 'fix' them if any JavaScript implementer complains via a bug on <http://bugs.ecmascript.org>

# Community Contributions

A few ideas to get a discussion going:

- Openness
- Additional resources for test262
- Legal implications
- Quality of community-submitted tests
- Test cases versus test harness. Patent concerns WRT the latter?
- test262-discuss