

**Minutes of the:
held in:
on:**

**Ecma TC39-TG1
Phone conference
13th February 2007**

Attendees

- Brendan Eich, Mozilla Foundation
- Graydon Hoare, Mozilla Foundation
- Prataq Lakshman, Microsoft
- Jeff Dyer, Adobe Systems
- Doug Crockford, Yahoo!

Agenda

- Is there a compelling use-case for parameterized functions? Do they add enough value for the additional complexity they introduce?
- Enums support? I've added JScript syntax for enums at bottom of https://intranet.mozilla.org/ECMA/wiki/doku.php?id=discussion:switch_class
- We need to re-export the wiki. That should enable us to get richer external feedback.
- Do we have adequate feedback from JavaScript engine implementors (who are not already on TG1) on ES4?

— [Pratap Lakshman](#) 2007/02/13 07:46

Presumably by “engine implementors (who are not already on TG1)” you mean commercially important engines? The only major script-enabled browsers I can think of that are not represented are Safari and Netfront/Access. Then there's Rhino, now important because it's part of Java SE, but I had assumed Brendan and Graydon represented that. There are many minor engines (many more than listed on http://en.wikipedia.org/wiki/List_of_JavaScript_engines) but they are often noncompliant / subset / experimental, and anyway their authors have the ability to comment on the draft on the es4-disuss list.

There was one embedded-size commercial engine that was heavily promoted some years back, but I can't remember... maybe Chris knows. There's a Wiki page internally at Opera that lists all of these

— [Lars T Hansen](#) 2007/02/13 08:20

Resolved

- Magic call and convert hooks on classes
 - `function to C() { }` for conversions, instead of intrinsic static function `to() { }` in class C.
 - `function call C() { }` for calling class C (ES1-3 `[[Call]]` internal method), instead of intrinsic static function `invoke() { }` in class C
 - Ed proposed these long ago; he was right.
- Logical connective forms
 - `&&=` and `||=` approved (they're in AS3 but not JScript.NET)

- ^^ and ^^= denied (they aren't in AS3 or JScript.NET)
- Prata's issues
 - Type parameters for functions are a basic part of the type system (consider `interface I.<T> { function m():T; }`).
 - `enum` based on JScript.NET
 - looks like it will fit without breaking anything
 - creates subrange types of `int` or `uint`
 - but do we need the `int` or `uint` type annotation?
 - secret bit feature? TG1 to study MSDN docs
 - Re-export of wiki soon, at next face-to-face if not sooner.
 - We think we have enough feedback from implementors to finish ES4.
 - Reference implementation, released in binary easy-to-run form, will help find bugs and shake out final ES4 this year.
 - Lars's comment above notes we have all majors represented.
 - Brendan recalled Apple's interest but apparent lack of time, so you could say "they had their chance" or "they trust us not to screw up" – possibly both.
 - [Rhino](#) has new and motivated hackers contributing, and some of them promise to track ES4.