

Introduction to Javascript.next (ES6)

About

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Committee

- standards process
- vs framework developers

Foundation

- 1961 European Computer Manufacturers Association (ECMA) - private non-profit standards board
- April 1995 Brendan Eich (Netscape) wants to bring scheme to browser: names mocha, livescript, finally javascript
- December 1995 Sun/Netscape announce “Javascript” in netscape 2 Beta
- August 1995 MSFT creates JScript and includes in IE3
- November 1996 Netscape submits ECMA-262 to standardize “Javascript”

Timeline

- ES1 - 1997
- ES2 - 1998
- ES3 - 1999
- ES4 - <abondoned>
- ES5 - 2009
- ES6 - 2015
- ES7 - in progress

Innovators Dilemma

- talent retention
- startup competitive advantage
- enterprise TCO

Targets/Containers

- browser
 - babel
- server
 - —harmony flag
 - “use strict”;

Module Adoption

- mongoose
- react
- rx.js (React.native)
- gulp
- angular (especially Angular DI)

Development Resources

- newbs
- framework developers
- everyone

Simple Lang

- impl: coffeescript, typescript
- up: terse, class approach, the good parts
- down: code gen, strange interoperability, non-native

Let, Const

- code

Default, Rest, Spread

- simplified parameterizing
- deconstructed assignments
- code

Destructuring

- python influences
- underscorejs
- code

Object Literals

- code

Arrow Functions

- `() => {}`
- `code`

Template Strings

- ruby style strings
- code

Collections

- Map, Set, WeakMap, WeakSet
- Weak references
- code

Symbols

- like ruby
- performance
- code

Iterators, For...Of

- code

Generators

- code

Async Callbacks

- callback hell
- brittle
- `async.js`
- `code`

Promise Libraries

- functional scope
- 3rd party
- non-native
- code

Native Promises

- generators!!!
- code

Proxies

- code

Modules

- AM
- commonjs
- enhanced export
- code

Classes

- code

The future (ES7)

- is it functional?
 - class decorators (annotations)
 - class properties
 - rest, spread on properties
 - typed objects
- bind operator - function binding, method extraction
- async functions, generators

Learn More

- Learning ECMAScript 6 by Narayan Prusty
- JS.Next: ECMAScript 6 by Aaron Frost (free online available)
- <http://www.ecmascript.org>
- <https://kangax.github.io/compat-table/es6>

Questions?

- <https://s3.amazonaws.com/barrelproofapps/dev-dexus/es6.pdf>
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