

ES6 draft status

November 2013

Status

- Spreadsheet
<https://skydrive.live.com/view.aspx?resid=704A682DC00D8AAD!59602&app=Excel&authkey=!AAMixsO0TuyPYwc>
- http://wiki.ecmascript.org/doku.php?id=harmony:specification_drafts
- Parameterized Grammar productions
- Unreserve 'let' in sloppy mode, `let[x] = expr;` is a declaration not an assignment.
- Unicode RegExp
- Webv Reality RegExp Annex
- Module Syntax and static semantics
- Specified how to determine if a call is in tail position
- Eliminated the `[[Invoke]]` MOP operation
- Spread now requires an Iterable rather than an array-like
- Replaced JSON grammar with normative reference to ECMA-404
- Updated `toLocale*String` methods with reference Ecma-402

- Currently having major Word issues.

Strict Formal Parameters

- Decouple strict formal parameters and eval/arguments declaration restrictions
- strict mode code
 - can't creating bindings for 'eval or 'arguments'
- StrictFormalParameter and any parameter list with new parameter syntax
 - can't have duplicated param names, get's an array as its arguments object
- Do arrow functions have an arguments object?

[Computed Property Keys]

- No dynamic checking for duplicate computed property names in object literals or classes:

```
{[expr1]: 1
```

```
[[expr2]: 2
```

```
} //does not check if expr1 == expr2
```

Class/ optional yield arg ambiguity

```
function *g() {  
  class foo extends yield { } //are those braces the class body?  
  {}  
}
```

- Proposed solutions
 - 1) disallow trailing yield in extends clause
 - requires an extra parameter to Expression and AssignmentExpression
 - 2) extends LeftHandSideExpression
 - would be only place an expression isn't explicitly Expression or AssignmentExpression

Cross-Realm Symbol registration

- <https://mail.mozilla.org/pipermail/es-discuss/2013-September/033799.html>
- <https://mail.mozilla.org/pipermail/es-discuss/2013-September/033801.html>

`Symbol.for(aString) ==> aSymbol` //creates a new Symbol if key is not registered.

`Symbol.keyFor(aSymbol) ==> aString`

- where for all strings S:
`Symbol.keyFor(Symbol.for(S)) === S`
- the use case for `Symbol.keyFor` is serialization

**Introduce a prototype object to
contains sloppy arguments object
@@iterator function?**

Conventions for ignore over-ride of @@iterator, etc.

- Property whose value is undefined. Should null value also mean not available.
- or just ToBoolean??

(function Foo() {}).bind(x).name ??

- treat name for bound functions like anonymous functions or try to compute a new name derived from target function. eg,

name: 'bound ' + this.[[target]].name

```
get name() {return 'bound '+this.[[target]].name}
```

- should avoid unnecessary extra computation when binding a function

time to obsolete statement about native objects??

- The map function is intentionally generic; it does not require that its this value be an Array object. Therefore it can be transferred to other kinds of objects for use as a method. *Whether the map function can be applied successfully to an **exotic** [native?] object that is not an Array is implementation-dependent.*

super and object literals

- Issue: How do you mixin some methods that reference super?
- `Object.mixin(obj, ???);`

Super is currently explicitly illegal within an object literal

```
Object.mixin(obj, {  
  toString() {  
    return `mixed(${super.toString()})`  
  }  
});
```



Static Error

Current Workarounds

```
Object.mixin(obj, class {  
  toString() {  
    return `mixed(${super.toString()})`  
  }.prototype  
});
```

```
Object.mixin(obj, class {  
  static toString() {  
    return `mixed(${super.toString()})`  
  }  
});
```

Fix?

- Remove restriction on super in object literals
- Concerns
 - The reason for the restriction was that some of us were worried about the foot-gun potential of super in object literals.