

ES6 in Node 6

ECMAScript AND NODE.JS



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Introduction



Ecma?

What is ECMAScript?

ES6 features and support.

Node's ES6 adoption.



What Is Ecma?

**Industry Association
dedicated to
standardizing information**

**Aims to facilitate and
standardize the use of
information communication**

**Encourage the correct use of
standards**

Publishes the standards



So what is ECMAScript?



ECMA-262

The standards that JavaScript is built on.



It's Not The Only One



**Microsoft's
JScript**



In the following rules, “token” means the actual recognized lexical token determined using the current lexical goal symbol as described in [clause 11](#).

There are three basic rules of **semicolon** insertion:

1. When, as a *Script* or *Module* is parsed from left to right, a token (called the *offending token*) is encountered that is not allowed by any production of the grammar, then a **semicolon** is automatically inserted before the offending token if one or more of the following conditions is true:
 - The offending token is separated from the previous token by at least one *LineTerminator*.
 - The offending token is `}`.
 - The previous token is `)` and the inserted **semicolon** would then be parsed as the terminating **semicolon** of a do-while statement ([13.7.2](#)).
2. When, as the *Script* or *Module* is parsed from left to right, the end of the input stream of tokens is encountered and the parser is unable to parse the input token stream as a single complete ECMAScript *Script* or *Module*, then a **semicolon** is automatically inserted at the end of the input stream.
3. When, as the *Script* or *Module* is parsed from left to right, a token is encountered that is allowed by some production of the grammar, but the production is a *restricted production* and the token would be the first token for a terminal or nonterminal immediately following the annotation “[no *LineTerminator* here]” within the restricted production (and therefore such a token is called a restricted token), and the restricted token is separated from the previous token by at least one *LineTerminator*, then a **semicolon** is automatically inserted before the restricted token.

However, there is an additional overriding condition on the preceding rules: a **semicolon** is never inserted automatically if the **semicolon** would then be parsed as an empty statement or if that **semicolon** would become



So what is
ECMAScript2015?
(ES6)



What Is ECMAScript2015?

Adds a new set of features to the Ecma 262 Standards

We can adopt all or only some of the features

Its up to each engine to support each feature

Kangax is our friend...



kangax



Node.js and ES6



ES6 Adoption in Node



Some Adoption



More
~50%



Even More
~60%



Almost Total
Adoption



Let's Explore



Work through kangax feature list.

Each section is a module.

I will let you know what is allowed when.

