



# JS ECMAScript 2015

#JavaScript Notes

# ECMA Script 2015

## ES6

# ECMA Script

- In 1996 Javascript was Found.
- The ECMAScript 6 is a scripting language specification institutionalized by ECMA International. ECMA, named in **1994**, is an international organization, related to information and communication system.
- ECMA stands for “**European Computer Manufacturers Association.**”



# ECMA Script

- **ECMAScript 6** or **ECMAScript 2015** is the sixth and latest version of the scripting language standard.
- The syntax rules of **ECMAScript 6** make it easier for developers to write complex web application by taking advantage of new classes, modules, methods, keywords, and data types

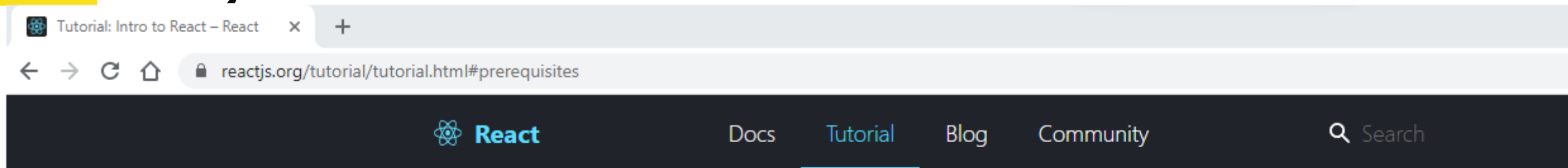


# ECMAScript Versions

Edition	Name	Description
1	ECMAScript 1	First Edition released in 1997
2	ECMAScript 2	Second Edition released in 1998, minor changes to meet ISO/IEC 16262 standard
3	ECMAScript 3	Third Edition released in 1999 with language enhancements
4	ECMAScript 4	Fourth Edition release plan was dropped, few features added later in ES6 & other complex features dropped
5	ECMAScript 5	Fifth Edition released in 2009
5.1	ECMAScript 5.1	5.1 Edition released in 2011, minor changes to meet ISO/IEC 16262:2011 standard
6	ECMAScript 2015/ES6	Sixth Edition released in 2015, see ES6 chapters for new features
7	ECMAScript 2016/ES7	Seventh Edition released in 2016, see ES7 chapters for new features
8	ECMAScript 2017/ES8	Eight Edition released in 2017, see ES8 chapters for new features
9	ECMAScript 2018/ES9	Ninth Edition released in 2018, see ES9 chapters for new



# Why to Learn

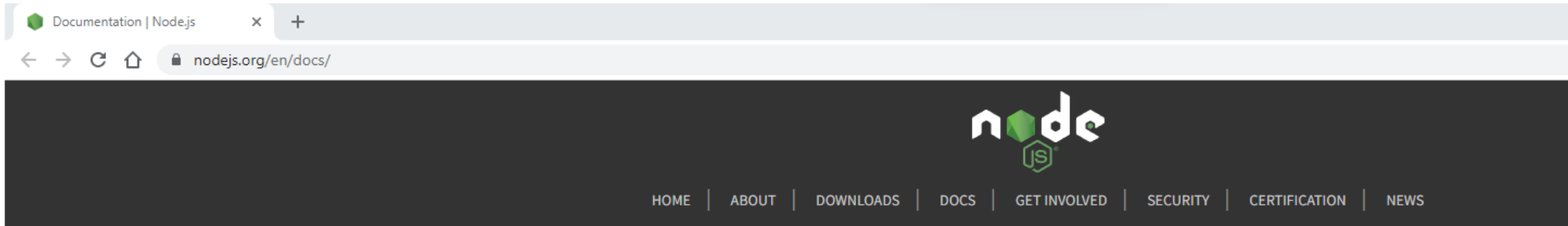


## Prerequisites

We'll assume that you have some familiarity with HTML and JavaScript, but you should be able to follow along even if you're coming from a different programming language. We'll also assume that you're familiar with programming concepts like functions, objects, arrays, and to a lesser extent, classes.

If you need to review JavaScript, we recommend reading [this guide](#). Note that we're also using some features from ES6 — a recent version of JavaScript. In this tutorial, we're using [arrow functions](#), [classes](#), [let](#), and [const](#) statements. You can use the [Babel REPL](#) to check what ES6 code compiles to.





## Docs

ES6 and beyond

v16.13.2 API LTS

v17.4.0 API

Guides

Dependencies

## About documentation

There are several types of documentation available on this website:

- API reference documentation
- ES6 features
- Guides

## API reference documentation

The [API reference documentation](#) provides detailed information about a function or object in Node.js. This documentation indicates what arguments a method accepts, the return value of that method, and what errors may be related to that method. It also indicates which methods are available for different versions of Node.js.



Angular - Setting up the local en x +

angular.io/guide/setup-local

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Introduction

Getting Started

What is Angular?

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Setup

Understanding Angular

Developer guides

Best Practices

Angular Tools

Tutorials

Release Information

Reference

stable (v13.2.0)

Prerequisites

To use the Angular framework, you should be familiar with the following:

- JavaScript
- HTML
- CSS

Knowledge of TypeScript is helpful, but not required.

To install Angular on your local system, you need the following:

- Node.js

Angular requires an active LTS or maintenance LTS version of Node.js.

For information about specific version requirements, see the engines key in the package.json file.

For more information on installing Node.js, see nodejs.org. If you are unsure what version of Node.js runs on your system, run node -v in a terminal window.

- npm package manager

Angular, the Angular CLI, and Angular applications depend on npm packages for many features and functions. To download and install npm packages, you need an npm package manager. This guide uses the npm client command line interface, which is installed with Node.js by default. To check that you have the npm client installed, run npm -v in a terminal window.





# Why ES6 is the future of JavaScript and Web Development

- ES6 is really fast.
- ES6 has Object-Oriented Classes.
- Modules are built into ES6
- ES6 has template literal strings
- ES6 has Promises



# Browser Supports

compat

ES

ECMAScript

5

6

2016+

next

intl

non-standard

compatibility table

Sort by

Engine types

Show obsolete platforms

Show unstable platforms

V8

SpiderMonkey

JavaScriptCore

Chakra

Carakan

KJS

Other

Minor difference (1 point)

Small feature (2 points)

Medium feature (4 points)

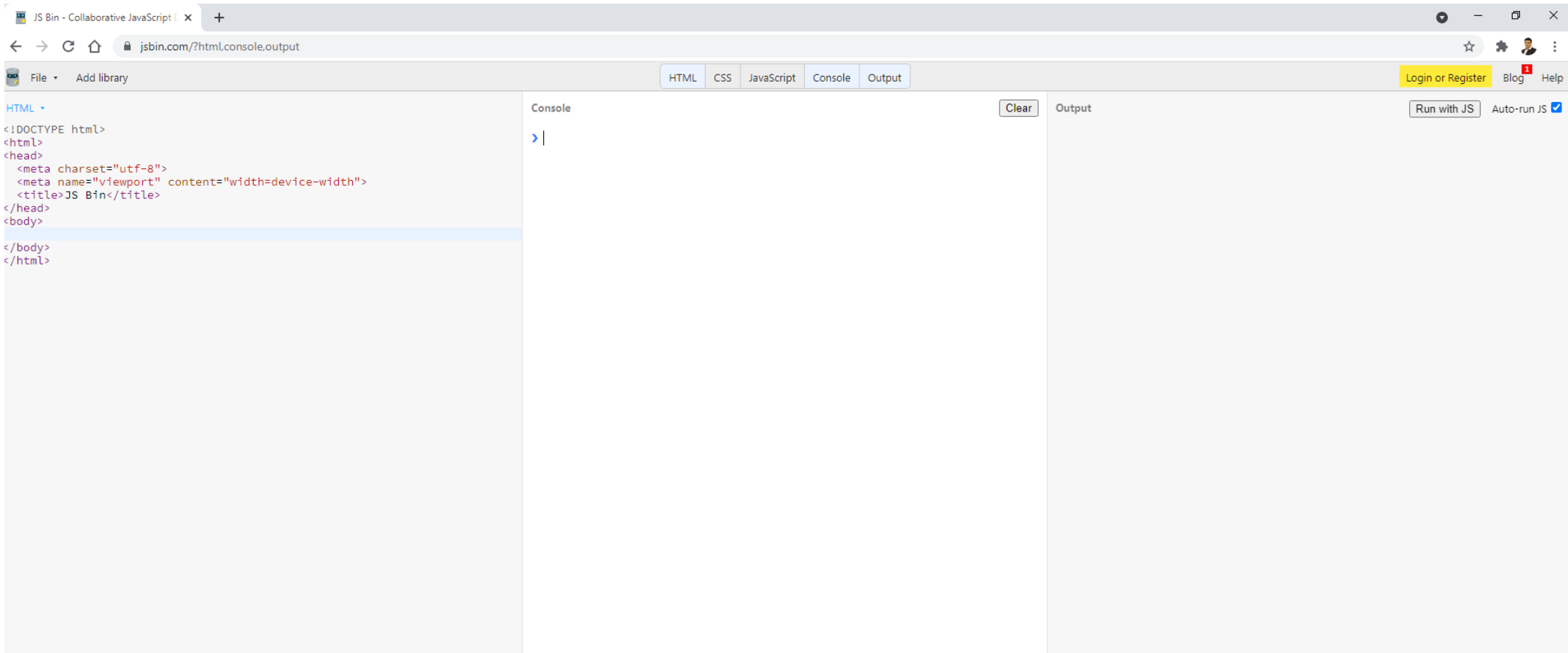
Large feature (8)

		Compilers/polyfills								Desktop browsers														
Feature name	Current browser																							
Optimisation																								
proper tail calls (tail call optimisation)	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	
Syntax																								
default function parameters	7/7	4/7	4/7	4/7	5/7	5/7	0/7	0/7	0/7	7/7	7/7	7/7	6/7	7/7	7/7	7/7	7/7	7/7	7/7	7/7	7/7	7/7	7/7	
rest parameters	5/5	4/5	3/5	3/5	2/5	4/5	0/5	0/5	0/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	
spread (...) operator	15/15	15/15	13/15	13/15	11/15	4/15	0/15	0/15	0/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	
object literal extensions	6/6	6/6	6/6	6/6	5/6	6/6	0/6	0/6	0/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	
for...of loops	9/9	9/9	9/9	9/9	6/9	3/9	0/9	0/9	0/9	9/9	9/9	9/9	7/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	
octal and binary literals	4/4	2/4	4/4	4/4	2/4	4/4	2/4	0/4	0/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	
template literals	5/5	4/5	4/5	4/5	3/5	3/5	0/5	0/5	0/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	
RegExp "y" and "u" flags	5/5	3/5	3/5	3/5	0/5	0/5	0/5	0/5	0/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	
destructuring, declarations	22/22	20/22	21/22	21/22	19/22	15/22	0/22	0/22	0/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	
destructuring, assignment	24/24	23/24	24/24	24/24	21/24	19/24	0/24	0/24	0/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	
destructuring, parameters	24/24	19/24	21/24	21/24	19/24	16/24	0/24	0/24	0/24	23/24	23/24	23/24	21/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	
Unicode code point escapes	2/2	1/2	1/2	1/2	1/2	1/2	0/2	0/2	0/2	2/2	2/2	2/2	1/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	
new.target	2/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	
Bindings																								
const	16/16	14/16	14/16	14/16	14/16	14/16	0/16	2/16	12/16	16/16	16/16	16/16	16/16	16/16	16/16	16/16	16/16	16/16	16/16	16/16	16/16	16/16	16/16	
let	12/12	10/12	10/12	10/12	10/12	10/12	0/12	0/12	10/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12	
block-level function declaration	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Functions																								
arrow functions	13/13	11/13	9/13	9/13	10/13	9/13	0/13	0/13	0/13	13/13	13/13	13/13	13/13	13/13	13/13	13/13	13/13	13/13	13/13	13/13	13/13	13/13	13/13	
class	24/24	17/24	19/24	19/24	14/24	19/24	0/24	0/24	0/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	



# Online Compiler

- <https://jsbin.com/>



# Other Online Compiler

- <https://es6console.com/>
- <https://onecompiler.com/javascript>
- <https://playcode.io/new/>

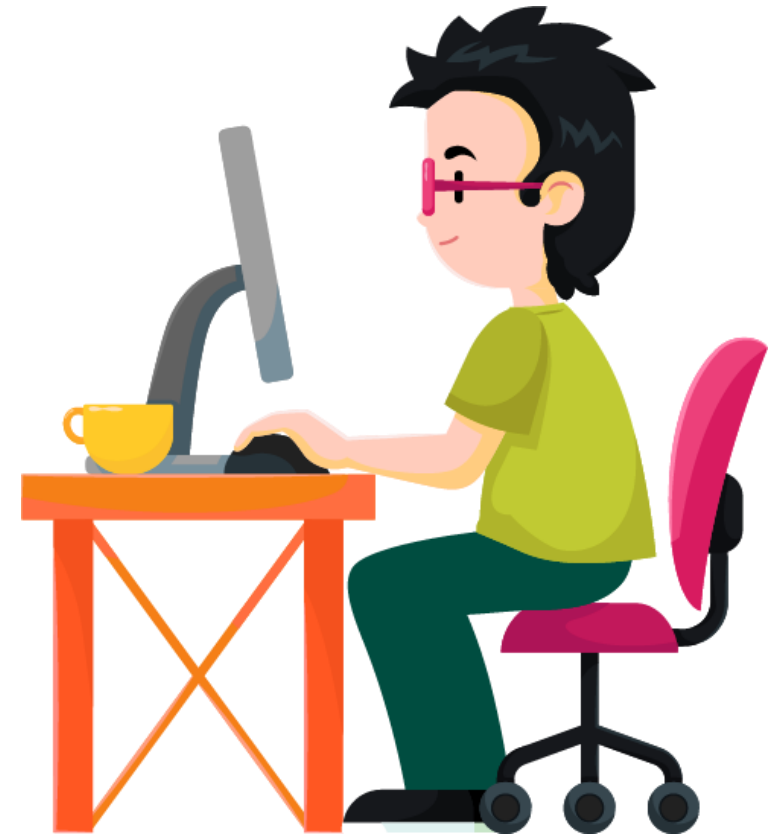


# Whats New

- Let & Const
- Template String
- Arrow Function
- Destructing
- Default Arguments



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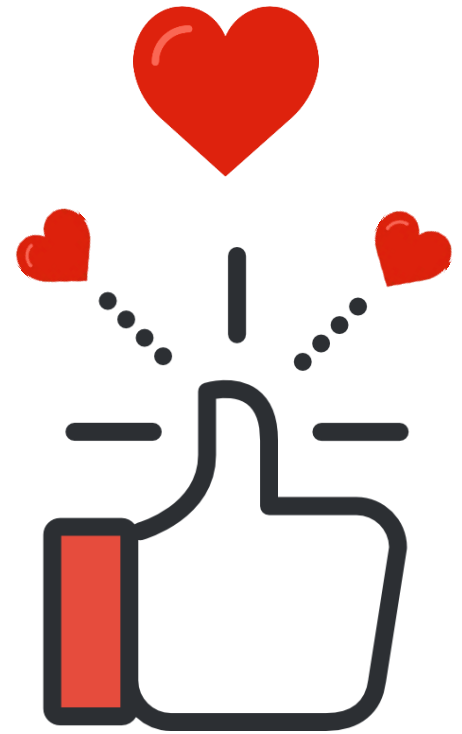
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