参考链接

- 1.官方文件
- 2.综合介绍
- 3.let 和 const
- 4.解构赋值
- 5.字符串
- 6.正则
- 7.数值
- 8.数组
- 9.函数
- ------
- 10.对象
- 11.Symbol
- 12.Set 和 Map
- 13.Proxy 和 Reflect
- 14.Promise 对象
- 15.Iterator
- 16.Generator
- 17.异步操作和 Async 函数
- 18.Class
- 19.Decorator
- 20.Module
- 21.二进制数组
- **22.SIMD**
- 23.工具

1. 官方文件

- ECMAScript® 2015 Language Specification: ECMAScript 2015 规格
- ECMAScript® 2016 Language Specification: ECMAScript 2016 规格
- ECMAScript® 2017 Language Specification: ECMAScript 2017 规格 (草案)
- ECMAScript Current Proposals: ECMAScript 当前的所有提案
- ECMAScript Active Proposals: 已经进入正式流程的提案
- ECMAScript proposals: 从阶段 0 到阶段 4 的所有提案列表
- TC39 meeting agendas: TC39 委员会历年的会议记录
- ECMAScript Daily: TC39 委员会的动态
- The TC39 Process: 提案进入正式规格的流程
- TC39: A Process Sketch, Stages 0 and 1: Stage 0 和 Stage 1 的含义
- TC39 Process Sketch, Stage 2: Stage 2 的含义

2. 综合介绍

- Axel Rauschmayer, Exploring ES6: Upgrade to the next version of JavaScript: ES6 的专著,本书的许多代码实例 来自该书
- Sayanee Basu, Use ECMAScript 6 Today
- Ariya Hidayat, Toward Modern Web Apps with ECMAScript 6
- Dale Schouten, 10 Ecmascript-6 tricks you can perform right now
- Colin Toh, Lightweight ES6 Features That Pack A Punch: ES6 的一些"轻量级"的特性介绍

- Domenic Denicola, ES6: The Awesome Parts
- Nicholas C. Zakas, Understanding ECMAScript 6
- Justin Drake, ECMAScript 6 in Node.JS
- Ryan Dao, Summary of ECMAScript 6 major features
- Luke Hoban, ES6 features: ES6 新语法点的罗列
- Traceur-compiler, Language Features: Traceur 文档列出的一些 ES6 例子
- Axel Rauschmayer, ECMAScript 6: what's next for JavaScript?: 关于 ES6 新增语法的综合介绍,有很多例子
- Axel Rauschmayer, Getting started with ECMAScript 6: ES6 语法点的综合介绍
- Toby Ho, ES6 in io.js
- Guillermo Rauch, ECMAScript 6
- Benjamin De Cock, Frontend Guidelines: ES6 最佳实践
- Jani Hartikainen, ES6: What are the benefits of the new features in practice?
- kangax, JavaScript quiz. ES6 edition: ES6 小测试
- Jeremy Fairbank, HTML5DevConf ES7 and Beyond!: ES7 新增语法点介绍
- Timothy Gu, How to Read the ECMAScript Specification: 如何读懂 ES6 规格

3. let 和 const

- Kyle Simpson, For and against let: 讨论 let 命令的作用域
- kangax, Why typeof is no longer "safe": 讨论在块级作用域内, let 命令的变量声明和赋值的行为
- Axel Rauschmayer, Variables and scoping in ECMAScript 6: 讨论块级作用域与 let 和 const 的行为
- Nicolas Bevacqua, ES6 Let, Const and the "Temporal Dead Zone" (TDZ) in Depth
- acorn, Function statements in strict mode: 块级作用域对严格模式的函数声明的影响
- Axel Rauschmayer, ES proposal: global: 顶层对象 global

4. 解构赋值

- Nick Fitzgerald, Destructuring Assignment in ECMAScript 6: 详细介绍解构赋值的用法
- Nicholas C. Zakas, ECMAScript 6 destructuring gotcha

5. 字符串

- Nicholas C. Zakas, A critical review of ECMAScript 6 quasi-literals
- Mozilla Developer Network, Template strings
- Addy Osmani, Getting Literal With ES6 Template Strings: 模板字符串的介绍
- Blake Winton, ES6 Templates: 模板字符串的介绍
- Peter Jaszkowiak, How to write a template compiler in JavaScript: 使用模板字符串,编写一个模板编译函数
- Axel Rauschmayer, ES.stage3: string padding

6. 正则

- Mathias Bynens, Unicode-aware regular expressions in ES6: 详细介绍正则表达式的 u 修饰符
- Axel Rauschmayer, New regular expression features in ECMAScript 6: ES6 正则特性的详细介绍

- Yang Guo, RegExp lookbehind assertions: 介绍后行断言
- Axel Rauschmayer, ES proposal: RegExp named capture groups: 具名组匹配的介绍
- Mathias Bynens, ECMAScript regular expressions are getting better!: 介绍 ES2018 添加的多项正则语法

7. 数值

- Nicolas Bevacqua, ES6 Number Improvements in Depth
- Axel Rauschmayer, ES proposal: arbitrary precision integers
- Mathias Bynens, BigInt: arbitrary-precision integers in JavaScript

8. 数组

- Axel Rauschmayer, ECMAScript 6's new array methods: 对 ES6 新增的数组方法的全面介绍
- TC39, Array.prototype.includes: 数组的 includes 方法的规格
- Axel Rauschmayer, ECMAScript 6: holes in Arrays: 数组的空位问题

9. 函数

- Nicholas C. Zakas, Understanding ECMAScript 6 arrow functions
- Jack Franklin, Real Life ES6 Arrow Functions
- Axel Rauschmayer, Handling required parameters in ECMAScript 6
- Dmitry Soshnikov, ES6 Notes: Default values of parameters: 介绍参数的默认值
- Ragan Wald, Destructuring and Recursion in ES6: rest 参数和扩展运算符的详细介绍
- Axel Rauschmayer, The names of functions in ES6: 函数的 name 属性的详细介绍
- Kyle Simpson, Arrow This: 箭头函数并没有自己的 this
- Derick Bailey, Do ES6 Arrow Functions Really Solve "this" In JavaScript?: 使用箭头函数处理 this 指向,必须非常小心
- Mark McDonnell, Understanding recursion in functional JavaScript programming: 如何自己实现尾递归优化
- Nicholas C. Zakas, The ECMAScript 2016 change you probably don't know: 使用参数默认值时,不能在函数内部显式开启严格模式
- Axel Rauschmayer, ES proposal: optional catch binding
- Cynthia Lee, When you should use ES6 arrow functions—and when you shouldn't: 讨论箭头函数的适用场合

10. 对象

- Addy Osmani, Data-binding Revolutions with Object.observe(): 介绍 Object.observe()的概念
- Sella Rafaeli, Native JavaScript Data-Binding: 如何使用 Object.observe 方法,实现数据对象与 DOM 对象的双向绑定
- Axel Rauschmayer, proto in ECMAScript 6
- Axel Rauschmayer, Enumerability in ECMAScript 6
- Axel Rauschmayer, ES proposal: Object.getOwnPropertyDescriptors()
- TC39, Object.getOwnPropertyDescriptors Proposal
- David Titarenco, How Spread Syntax Breaks JavaScript: 扩展运算符的一些不合理的地方

11. Symbol

- Axel Rauschmayer, Symbols in ECMAScript 6: Symbol 简介
- MDN, Symbol: Symbol 类型的详细介绍
- Jason Orendorff, ES6 In Depth: Symbols
- Keith Cirkel, Metaprogramming in ES6: Symbols and why they're awesome: Symbol 的深入介绍
- Axel Rauschmayer, Customizing ES6 via well-known symbols
- Derick Bailey, Creating A True Singleton In Node.js, With ES6 Symbols
- Das Surma, How to read web specs Part IIa Or: ECMAScript Symbols: 介绍 Symbol 的规格

12. Set 和 Map

- Mozilla Developer Network, WeakSet: 介绍 WeakSet 数据结构
- Dwayne Charrington, What Are Weakmaps In ES6?: WeakMap 数据结构介绍
- Axel Rauschmayer, ECMAScript 6: maps and sets: Set 和 Map 结构的详细介绍
- Jason Orendorff, ES6 In Depth: Collections: Set 和 Map 结构的设计思想
- Axel Rauschmayer, Converting ES6 Maps to and from JSON: 如何将 Map 与其他数据结构互相转换

13. Proxy 和 Reflect

- Nicholas C. Zakas, Creating defensive objects with ES6 proxies
- Axel Rauschmayer, Meta programming with ECMAScript 6 proxies: Proxy 详解
- Daniel Zautner, Meta-programming JavaScript Using Proxies: 使用 Proxy 实现元编程
- Tom Van Cutsem, Harmony-reflect: Reflect 对象的设计目的
- Tom Van Cutsem, Proxy Traps: Proxy 拦截操作一览
- Tom Van Cutsem, Reflect API
- Tom Van Cutsem, Proxy Handler API
- Nicolas Bevacqua, ES6 Proxies in Depth
- Nicolas Bevacqua, ES6 Proxy Traps in Depth
- Nicolas Bevacqua, More ES6 Proxy Traps in Depth
- Axel Rauschmayer, Pitfall: not all objects can be wrapped transparently by proxies
- Bertalan Miklos, Writing a JavaScript Framework Data Binding with ES6 Proxies: 使用 Proxy 实现观察者模式
- Keith Cirkel, Metaprogramming in ES6: Part 2 Reflect: Reflect API 的详细介绍

14. Promise 对象

- Jake Archibald, JavaScript Promises: There and back again
- Jake Archibald, Tasks, microtasks, queues and schedules
- Tilde, rsvp.js
- Sandeep Panda, An Overview of JavaScript Promises: ES6 Promise 入门介绍
- Dave Atchley, ES6 Promises: Promise 的语法介绍
- Axel Rauschmayer, ECMAScript 6 promises (2/2): the API: 对 ES6 Promise 规格和用法的详细介绍
- Jack Franklin, Embracing Promises in JavaScript: catch 方法的例子
- Ronald Chen, How to escape Promise Hell: 如何使用 Promise.all 方法的一些很好的例子
- Jordan Harband, proposal-promise-try: Promise.try() 方法的提案

- Sven Slootweg, What is Promise.try, and why does it matter?: Promise.try() 方法的优点
- Yehuda Katz, TC39: Promises, Promises: Promise.try() 的用处

15. Iterator

- Mozilla Developer Network, Iterators and generators
- Mozilla Developer Network, The Iterator protocol
- Jason Orendorff, ES6 In Depth: Iterators and the for-of loop: 遍历器与 for...of 循环的介绍
- Axel Rauschmayer, Iterators and generators in ECMAScript 6: 探讨 Iterator 和 Generator 的设计目的
- Axel Rauschmayer, Iterables and iterators in ECMAScript 6: Iterator 的详细介绍
- Kyle Simpson, Iterating ES6 Numbers: 在数值对象上部署遍历器

16. Generator

- Matt Baker, Replacing callbacks with ES6 Generators
- Steven Sanderson, Experiments with Koa and JavaScript Generators
- jmar777, What's the Big Deal with Generators?
- Marc Harter, Generators in Node.js: Common Misconceptions and Three Good Use Cases: 讨论 Generator 函数 的作用
- StackOverflow, ES6 yield: what happens to the arguments of the first call next()?: 第一次使用 next 方法时不能 带有参数
- Kyle Simpson, ES6 Generators: Complete Series: 由浅入深探讨 Generator 的系列文章, 共四篇
- Gajus Kuizinas, The Definitive Guide to the JavaScript Generators: 对 Generator 的综合介绍
- Jan Krems, Generators Are Like Arrays: 讨论 Generator 可以被当作数据结构看待
- Harold Cooper, Coroutine Event Loops in JavaScript: Generator 用于实现状态机
- Ruslan Ismagilov, learn-generators: 编程练习, 共 6 道题
- Steven Sanderson, Experiments with Koa and JavaScript Generators: Generator 入门介绍,以 Koa 框架为例
- Mahdi Dibaiee, ES7 Array and Generator comprehensions: ES7 的 Generator 推导
- Nicolas Bevacqua, ES6 Generators in Depth
- Axel Rauschmayer, ES6 generators in depth: Generator 规格的详尽讲解
- Derick Bailey, Using ES6 Generators To Short-Circuit Hierarchical Data Iteration: 使用 for...of 循环完成预定的操作步骤

17. 异步操作和 Async 函数

- Luke Hoban, Async Functions for ECMAScript: Async 函数的设计思想,与 Promise、Gernerator 函数的关系
- Jafar Husain, Asynchronous Generators for ES7: Async 函数的深入讨论
- Nolan Lawson, Taming the asynchronous beast with ES7: async 函数通俗的实例讲解
- Jafar Husain, Async Generators: 对 async 与 Generator 混合使用的一些讨论
- Daniel Brain, Understand promises before you start using async/await: 讨论 async/await 与 Promise 的关系
- Jake Archibald, Async functions making promises friendly
- Axel Rauschmayer, ES proposal: asynchronous iteration: 异步遍历器的详细介绍
- Dima Grossman, How to write async await without try-catch blocks in JavaScript: 除了 try/catch 以外的 async 函数内部捕捉错误的方法
- Mostafa Gaafa, 6 Reasons Why JavaScript's Async/Await Blows Promises Away: Async 函数的6个好处
- Mathias Bynens, Asynchronous stack traces: why await beats Promise#then(): async 函数可以保留错误堆栈

18. Class

- Sebastian Porto, ES6 classes and JavaScript prototypes: ES6 Class 的写法与 ES5 Prototype 的写法对比
- Jack Franklin, An introduction to ES6 classes: ES6 class 的入门介绍
- Axel Rauschmayer, ECMAScript 6: new OOP features besides classes
- Axel Rauschmayer, Classes in ECMAScript 6 (final semantics): Class 语法的详细介绍和设计思想分析
- Eric Faust, ES6 In Depth: Subclassing: Class 语法的深入介绍
- Nicolás Bevacqua, Binding Methods to Class Instance Objects: 如何绑定类的实例中的 this
- Jamie Kyle, JavaScript's new #private class fields: 私有属性的介绍。
- Mathias Bynens, Public and private class fields: 实例属性的新写法的介绍。

19. Decorator

- Maximiliano Fierro, Declarative vs Imperative: Decorators 和 Mixin 介绍
- Justin Fagnani, "Real" Mixins with JavaScript Classes: 使用类的继承实现 Mixin
- Addy Osmani, Exploring ES2016 Decorators: Decorator 的深入介绍
- Sebastian McKenzie, Allow decorators for functions as well: 为什么修饰器不能用于函数
- Maximiliano Fierro, Traits with ES7 Decorators: Trait 的用法介绍
- Jonathan Creamer: Using ES2016 Decorators to Publish on an Event Bus: 使用修饰器实现自动发布事件

20. Module

- Jack Franklin, JavaScript Modules the ES6 Way: ES6 模块入门
- Axel Rauschmayer, ECMAScript 6 modules: the final syntax: ES6 模块的介绍,以及与 CommonJS 规格的详细比较
- Dave Herman, Static module resolution: ES6 模块的静态化设计思想
- Jason Orendorff, ES6 In Depth: Modules: ES6 模块设计思想的介绍
- Ben Newman, The Importance of import and export: ES6 模块的设计思想
- ESDiscuss, Why is "export default var a = 1;" invalid syntax?
- Bradley Meck, ES6 Module Interoperability: 介绍 Node 如何处理 ES6 语法加载 CommonJS 模块
- Axel Rauschmayer, Making transpiled ES modules more spec-compliant: ES6 模块编译成 CommonJS 模块的详细介绍
- Axel Rauschmayer, ES proposal: import() dynamically importing ES modules: import() 的用法
- Node EPS, ES Module Interoperability: Node 对 ES6 模块的处理规格

21. 二进制数组

- Ilmari Heikkinen, Typed Arrays: Binary Data in the Browser
- Khronos, Typed Array Specification
- Ian Elliot, Reading A BMP File In JavaScript
- Renato Mangini, How to convert ArrayBuffer to and from String
- Axel Rauschmayer, Typed Arrays in ECMAScript 6
- Axel Rauschmayer, ES proposal: Shared memory and atomics
- Lin Clark, Avoiding race conditions in SharedArrayBuffers with Atomics: Atomics 对象使用场景的解释
- Lars T Hansen, Shared memory a brief tutorial
- James Milner, The Return of SharedArrayBuffers and Atomics

22. SIMD

- TC39, SIMD.js Stage 2
- MDN, SIMD
- TC39, ECMAScript SIMD
- Axel Rauschmayer, JavaScript gains support for SIMD

23. 工具

- Babel, Babel Handbook: Babel 的用法介绍
- Google, traceur-compiler: Traceur 编译器
- Casper Beyer, ECMAScript 6 Features and Tools
- Stoyan Stefanov, Writing ES6 today with jstransform
- ES6 Module Loader, ES6 Module Loader Polyfill: 在浏览器和 node.js 加载 ES6 模块的一个库,文档里对 ES6 模块有详细解释
- Paul Miller, es6-shim: 一个针对老式浏览器,模拟 ES6 部分功能的垫片库(shim)
- army8735, JavaScript Downcast: 国产的 ES6 到 ES5 的转码器
- esnext, ES6 Module Transpiler: 基于 node.js 的将 ES6 模块转为 ES5 代码的命令行工具
- Sebastian McKenzie, BabelJS: ES6 转译器
- SystemJS, SystemJS: 在浏览器中加载 AMD、CJS、ES6 模块的一个垫片库
- Modernizr, HTML5 Cross Browser Polyfills: ES6 垫片库清单
- Facebook, regenerator: 将 Generator 函数转为 ES5 的转码器