ES6, ES7, WHERE DO I START?

OH CRAP

JAVASCRIPT CHANGED AGAIN!

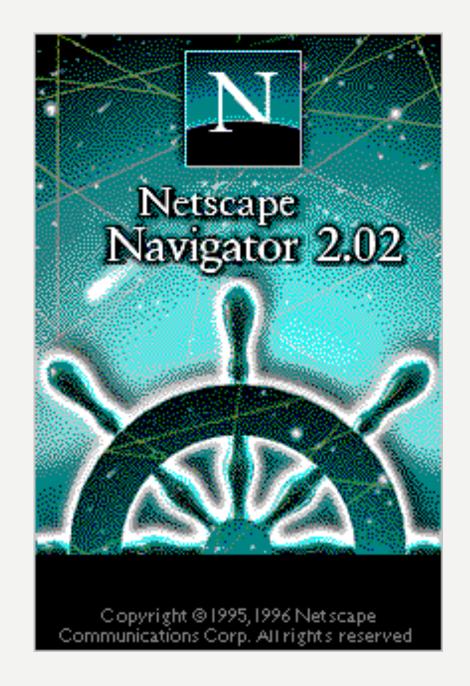


HI, I'M RAYMOND!

- Developer Advocate for IBM
- Focused on Node, API, Serverless, and Enterprise Cat Demos
- Blogging at www.raymondcamden.com
- Tweeting at @raymondcamden
- I have opinions.

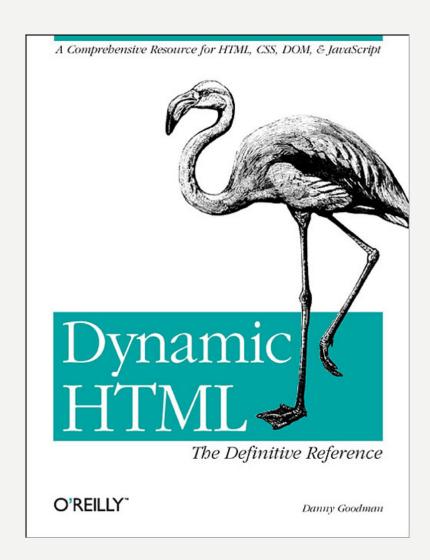
HOW AWESOME I AM AT JAVASCRIPT

• My first demos were epic...



HOW AWESOME I AM AT JAVASCRIPT

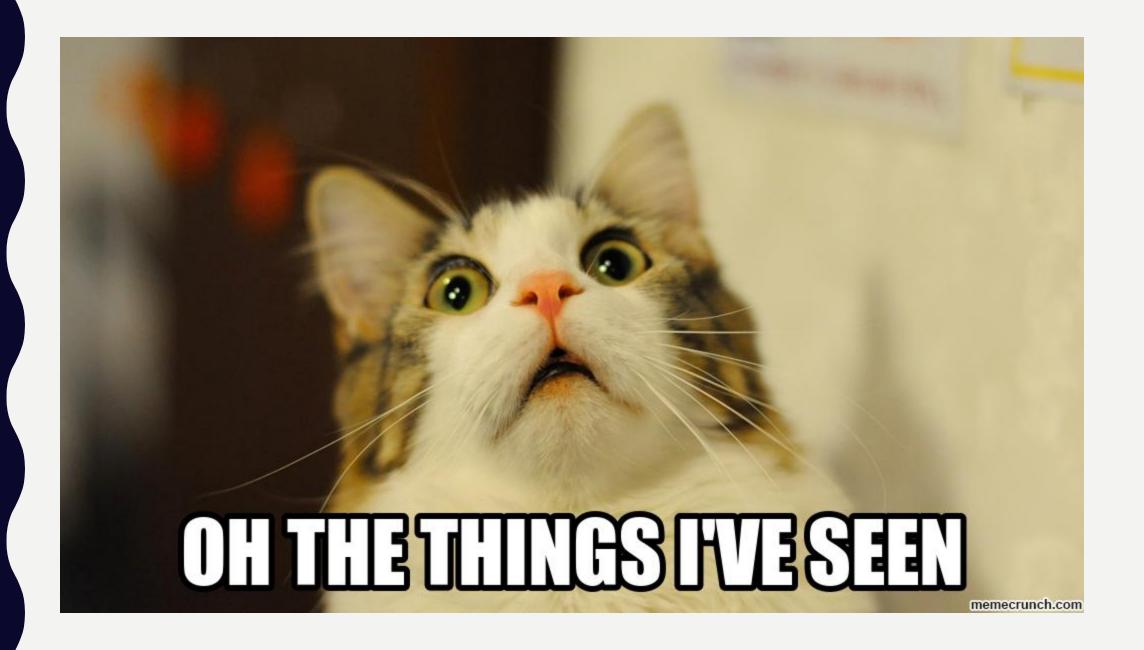
Professional DHTML Expert



HOW AWESOME I AM AT JAVASCRIPT

• Proud Failer (failee?) of the Google Code Interview!





WHO ARE YOU?

TWO TYPES OF DEVELOPERS

- JavaScript Developers
- Developers who use JavaScript



you dont need jquery



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Showing results for you don't need jquery

Search instead for you dont need jquery

You Might Not Need jQuery

youmightnotneedjquery.com/ ▼

Examples of how to do common event, element, ajax and utility operations with plain javascript.

GitHub - oneuijs/You-Dont-Need-jQuery: Examples of how to do query ...

https://github.com/oneuijs/You-Dont-Need-jQuery ▼

We **don't** have to learn **jQuery** from scratch for DOM manipulation or events. In the meantime, thanks to the prevailing of frontend libraries such as React, Angular and Vue, manipulating DOM directly becomes anti-pattern, **jQuery** has never been less important.

oneuijs/You-Dont-Need-jQuery - GitHub

https://github.com/.../You-Dont-Need-jQuery/.../README.zh-CN....▼ Translate this page You Don't Need jQuery Build Status. 前端发展很快,现代浏览器原生API 已经足够好用。我们并不需要为了操作DOM、Event 等再学习一下jQuery 的API。

(Now More Than Ever) You Might Not Need jQuery | CSS-Tricks

https://css-tricks.com/now-ever-might-not-need-jquery/ ▼

Jul 12, 2017 - People have been writing "You Might Not Need jQuery" articles since 2013 (see this classic site and this classic repo). I don't want to rehash old ...

You Don't Need jQuery! - Free yourself from the chains of jQuery by ...

https://blog.garstasio.com/ ▼

Free yourself from the chains of **jQuery** by embracing and understanding the modern Web API and discovering various directed libraries to help **you** fill in the gaps. **You Don't Need jQuery** (anymore) A lot of web developers rely on **jQuery**. Selecting Elements. DOM Manipulation. Ajax Requests. Events. Utilities. Beyond **jQuery**.

You Don't Need jQuery (anymore)

 $https://blog.garstasio.com/you-dont-need-jquery/why-not/ ~\blacksquare$

Nov 2, 2014 - A lot of web developers rely on **jQuery**. In many circles, **jQuery** and JavaScript are one in the same it seems. So, why shouldn't **you** use it?

WHAT THE HECK IS GOING ON?

NO - SERIOUSLY

ES6 ES2016 ES7 ES2016 ES2017

ES6 ES2016 ES7 ES2016 ES2017

ECMASCRIPT

- The standard for JavaScript (and other scripting languages)
- Began way back in 1997
- Provides a "Bible" for JavaScript

ES6 ES2015 **ES7** ES2016 ES2017

DATES

- ES6/ES2015 finalized 2015
- ES7/ES2016 finalized 2016
- ES8/ES2017 finalized 2017

SYNTAX VERSUS "BROWSER FEATURES"

- x = [1,2,3]- x = new Array(3); x.push(1); x.push(2); x.push(3);
- navigator.serviceWorker

NOT EVERYTHING IS ABOUT YOU...

- Some language features are awesome!
- Some are awesome and you'll never use em!
- That's ok!



READ THE SPEC

- ES6: http://www.ecma-international.org/ecma-262/6.0/
- ES7 (ES2016): https://www.ecma-international.org/ecma-262/7.0/
- ES8 (ES2017): https://www.ecma-international.org/ecma-262/8.0/

READ THE BLOGS/BOOKS

- Dr. Axel Rauschmayer
 - http://2ality.com/
 - http://exploringjs.com/es6/
 - http://exploringjs.com/es2016-es2017/
- Wes Bos
 - ES6 for Everyone (https://es6.io/)
- Eric Elliott
 - https://medium.com/javascript-scene/how-to-learn-es6-47d9alac2620

BUT CAN I ACTUALLY USE IT?

http://kangax.github.io/compat-table/es6/

							De	esktop bro	nwsers							
5%	11%	93%	96%	96%	94%	97 %		-		97%	97%	99%	99%	99%	99%	99%
<u>Konq</u> 4.14 ^[3]	<u>IE 11</u>	<u>Edge</u> <u>14</u>	<u>Edge</u> <u>15</u>	Edge 16 Preview	FF 52 ESR	<u>FF 55</u>	FF 56 Beta	FF 57 Nightly	<u>CH 60,</u> <u>OP 47^[1]</u>	<u>CH 61,</u> <u>OP 48^[1]</u>	<u>CH 62,</u> <u>OP 49^[1]</u>	<u>SF 10</u>	<u>SF</u> 10.1	<u>SF 11</u>	<u>SF TP</u>	<u>WK</u>
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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	12/12
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

BUT CAN I ACTUALLY USE IT?

- Checking Support: http://kangax.github.io/compat-table/es6/
- Transpiling: https://babeljs.io/

Babel is a JavaScript compiler.

Use next generation JavaScript, today.

Put in next-gen JavaScript

| let yourTurn = "Type some code in here!"; | var yourTurn = "Type some code in here!"; |
| Check out our REPL to experiment more with Babel!

Latest From Our Blog: Contributing to Babel: Three Lessons to Remember

BUT CAN I ACTUALLY USE IT?

- Checking Support: http://kangax.github.io/compat-table/es6/
- Transpiling: https://babeljs.io/
- Checking Support (2): http://caniuse.com/

MY FAVORITE FEATURES*

- Template Literals (aka template strings)
- Arrow Functions
- Async/Await

TEMPLATE LITERALS

- A new way to define strings in JavaScript
- Help solve the problem of creating dynamic strings

TEMPLATE LITERALS

```
var name = "ray";
var age = 44;
var status = "cool";
var desc = "My name is <b>"+name+"</b>";
desc += " and I'm <i>"+age+"</i> years old and ";
desc += " and I'm currently <blink>" + status +
"</blink>!";
```

TEMPLATE LITERALS

```
var name = "ray";
var age = 44;
var status = "cool";
var desc =
My name is <b>${name}</b> and I'm
<i>$\{age}</i> years old and I'm
currently <blink>${status}</blink>!
```

- Shorter (simpler?) syntax
- Properly handle "this" inside

```
hello = function(name) {
  return `Hello, ${name}`;
}
hello = (name) => `Hello, ${name}`;
```

```
hello = (name, greeting) => {
  let result = `${greeting}, ${name}`;
  return result;
};
```

```
function Person() {
  this.age = 0;
  setInterval(function growUp() {
  this.age++;
  }, 1000);
var p = new Person();
```

```
function Person() {
  this.age = 0;
  setInterval(() => {
  this.age++;
  }, 1000);
var p = new Person();
```

Source: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Functions/Arrow_functions

- Working with Async is hard (everyone knows this)
- Callbacks, Promises, Observables

```
function slow1() {
  return new Promise((resolve, reject)=> {
   window.setTimeout(() => {
      resolve(1)
   }, 1000);
  });
function slow2() {
  return new Promise((resolve, reject)=> {
   window.setTimeout(() => {
      resolve(2)
   }, 1000);
 });
```

```
function doslow() {
    let total = 0;
    Promise.all([
        slow1(),slow2()
    ]).then(values => {
        total = values[0] + values[1];
        console.log(`total is ${total}`);
    });
}
```

```
async function doslow2() {
   let total = 0;
   total += await slow1();
   total += await slow2();
   console.log(`total is ${total}`);
}
```

THANK YOU!