

JavaScript for Beginners

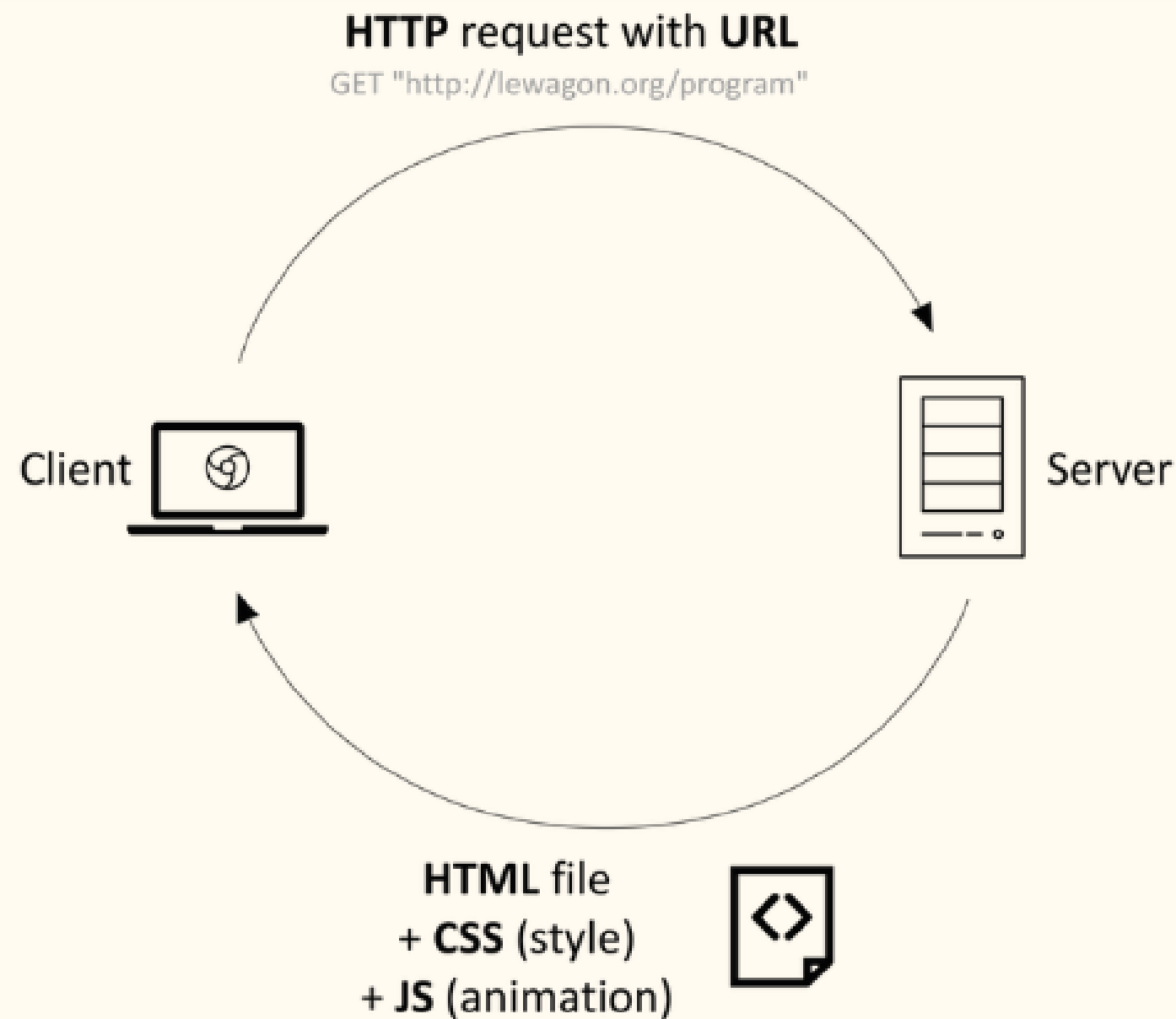


**Bring technical skills
to creative people**

Let's talk about JavaScript

In-browser language

(since 1995)



1 HTTP request / file (file.html, file.css, file.js, file.png)



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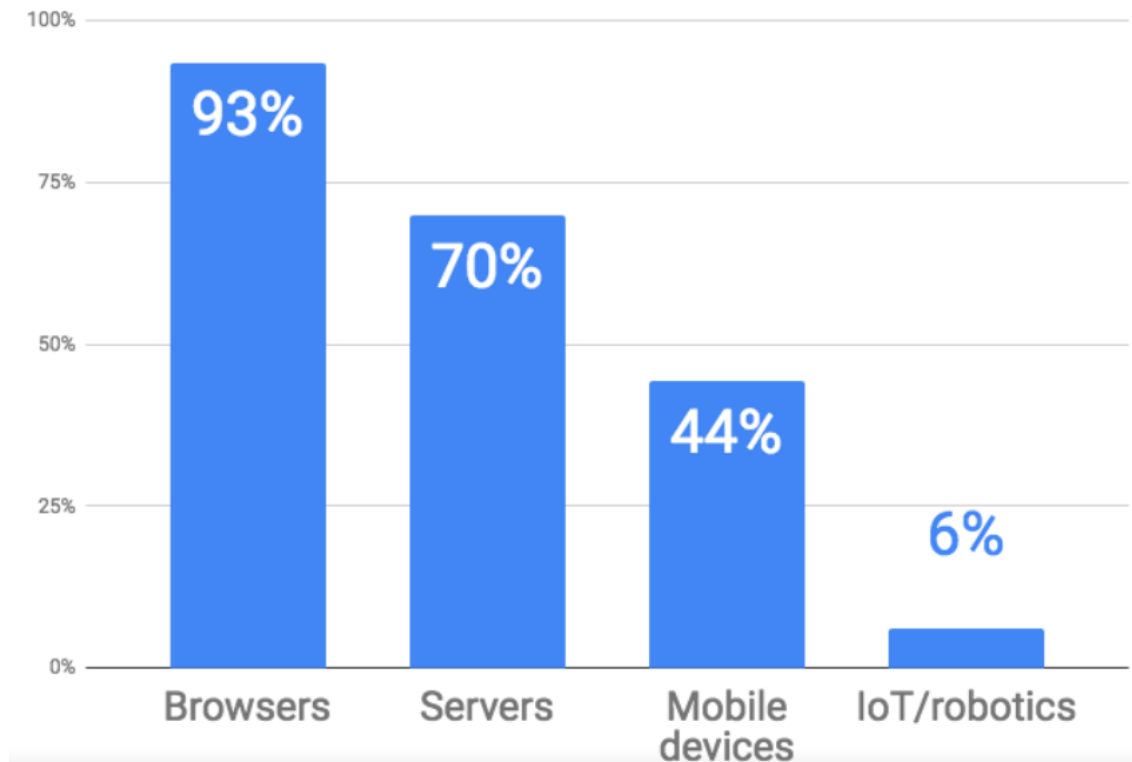
All Respondents

Professional Developers

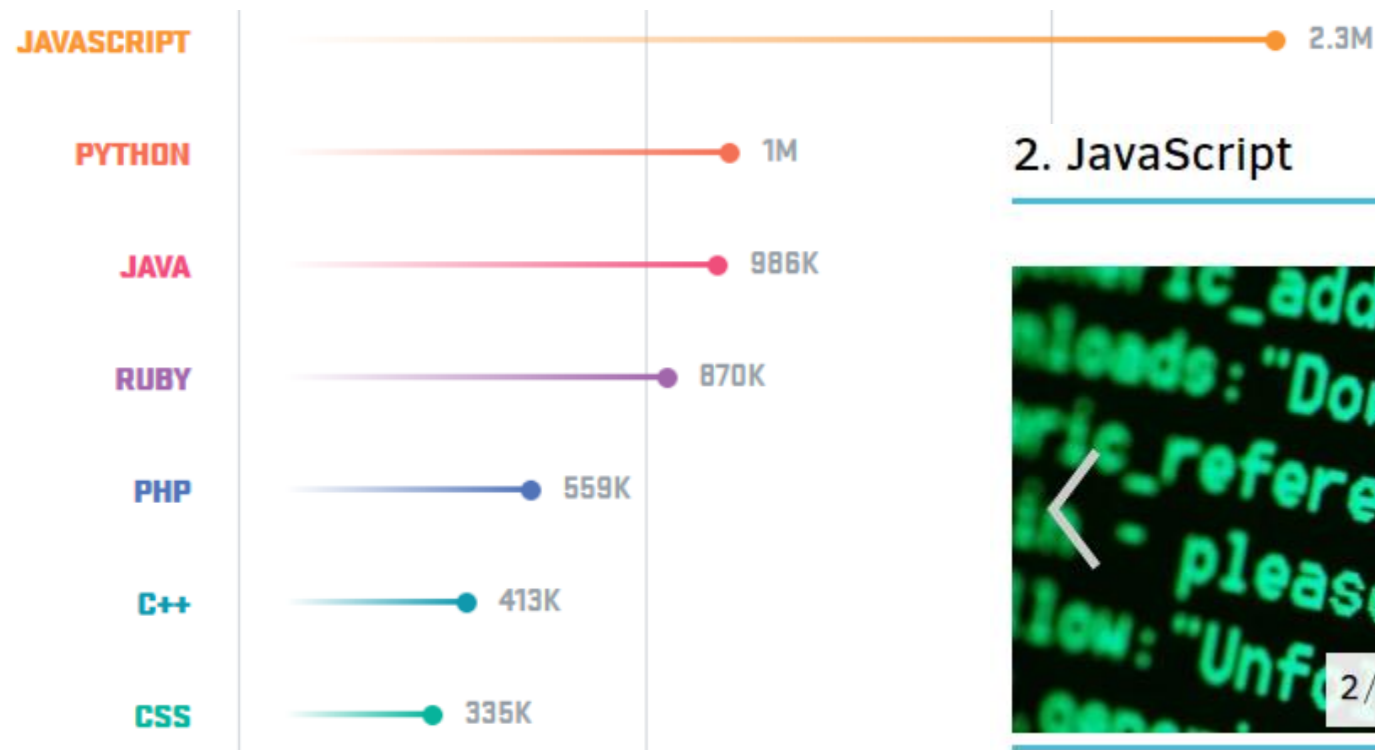


(Stack Overflow, 2018)

The JavaScript I write runs on...

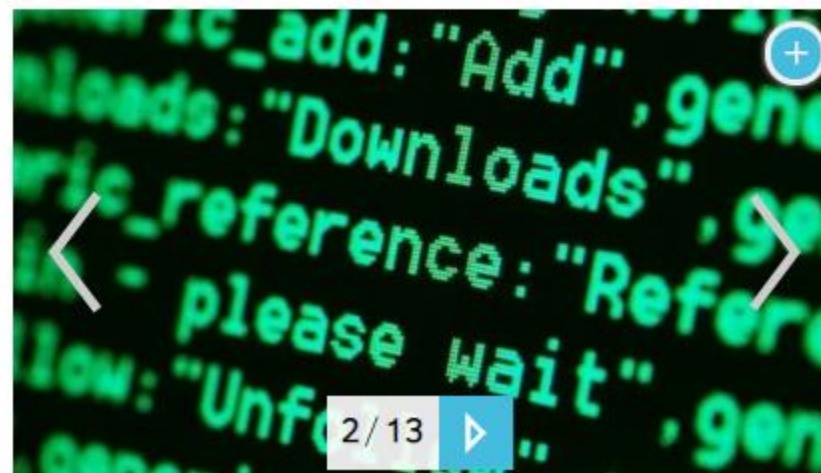


(NPM, 2019)



(GitHub, 2018)

2. JavaScript

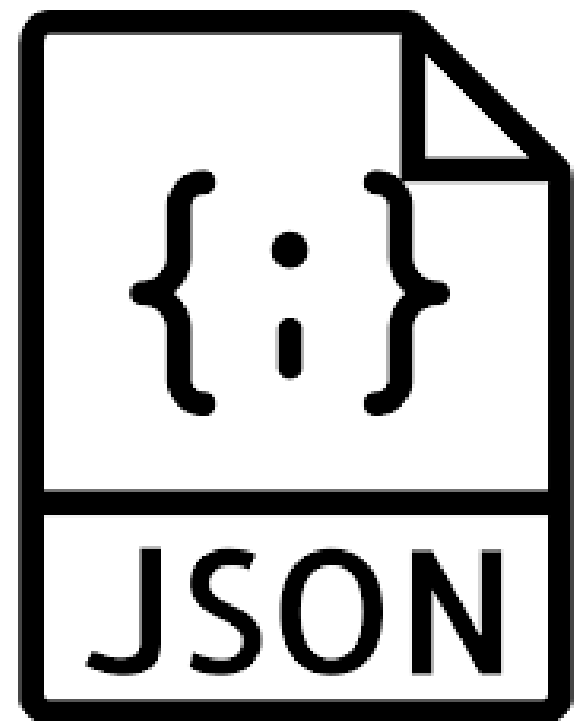


Mentions in job adverts over the last three months: 13,475

Average salary: £50,000

(TechWorld, 2018)

ES6



FRONTEND



BACK END

Let's Code!



JS Bin

Data types

Numbers

-100

0

1

3.14

42

Boolean

true

false

String

"John"

"John Lennon"

"a"

""

Object

```
{  
  "first_name" : "John",  
  "last_name"  : "Lennon"  
}
```

```
[ "john", "paul", "ringo", "george" ]
```


null

undefined

Variables

let or const

```
const firstName;
```



```
const firstName = "John";
```



```
console.log(firstName);
```



Exercise

Concatenate two strings

Conditions

if, else



```
if (weather === "rainy") {  
  console.log("Take an umbrella");  
}
```




```
if (weather === "rainy") {  
  console.log("Take an umbrella");  
} else {  
  console.log("Take your sunglasses");  
}
```



```
if (weather === "rainy") {  
  console.log("Take an umbrella");  
} else if (weather === "stormy") {  
  console.log("Stay at home");  
} else {  
  console.log("Take your sunglasses");  
}
```

Boolean algebra

&&, ||, !

Logical and

```
var result = a && b;
```

a	b	result
false	false	false
false	true	false
true	false	false
true	true	true

```
let rain = true;  
let wind = true;  
  
if (rain && wind) {  
    console.log("Really stay at home");  
}
```

Logical or

let result = a || b;

a	b	result
false	false	false
false	true	true
true	false	true
true	true	true

```
let day = "Saturday";  
  
if (day === "Saturday" || day === "Sunday") {  
    console.log("It's the week-end!");  
}
```

Logical not

```
let result = !a;
```

a	result
true	false
false	true


```
let sunny = true;  
  
if (!sunny) {  
    console.log("Cancel the beach");  
}
```

```
let weather = "raining";  
  
if (weather !== "sunny") {  
    console.log("Cancel the beach");  
}
```

Exercise

Filter names starting with a "B"

Loops

for, forEach

Array

```
const students = [ "john", "paul", "ringo" ];  
  
students.length // => 3  
  
students[0]      // => "john"  
students[2]      // => "ringo"  
students[1]      // => "paul"
```

For

```
for (let i = 0; i < students.length; i += 1) {  
  console.log(students[i]);  
}
```

forEach

```
students.forEach((student) => {  
    console.log(student);  
});
```

Exercise

Filter names starting with a "B"

Functions

```
function name(parameters) {  
    body  
    (return statement)  
}
```

Example: Full Name

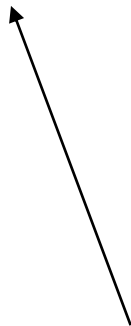
```
function fullName(first, last) {  
  var name = first + " " + last;  
  return name;  
}
```

Calling a function

```
fullName("John", "Lennon");
```

Function name

arguments

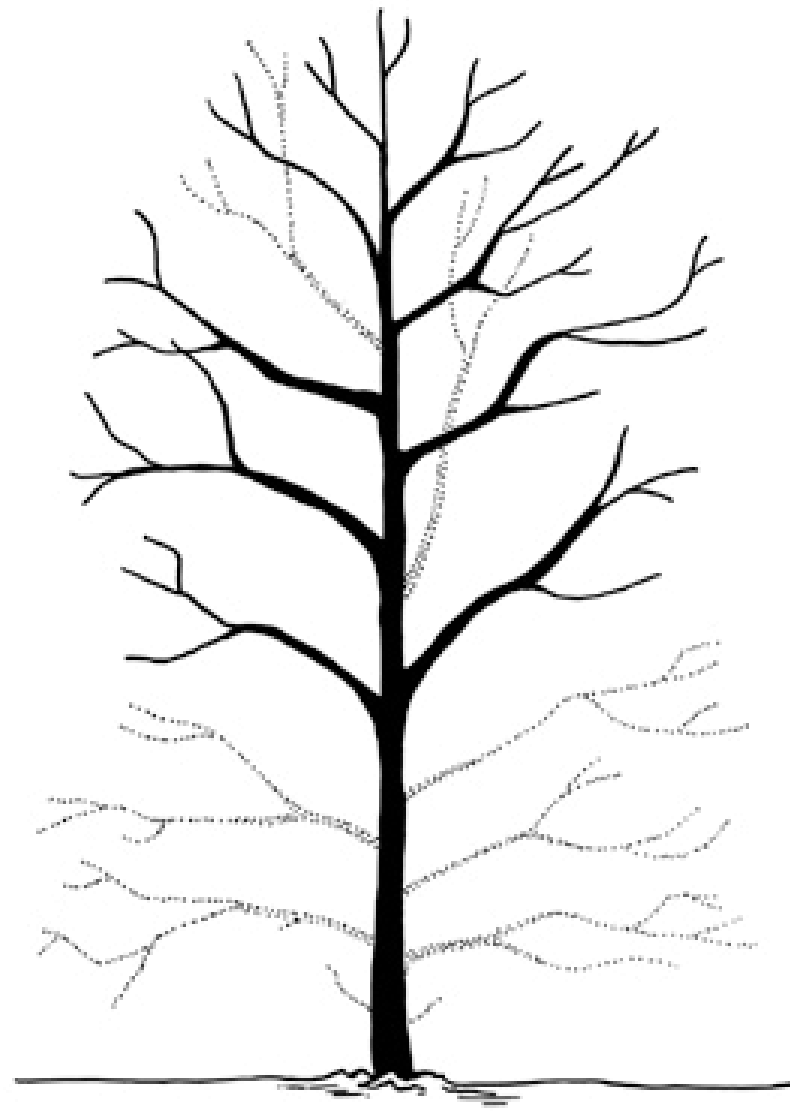


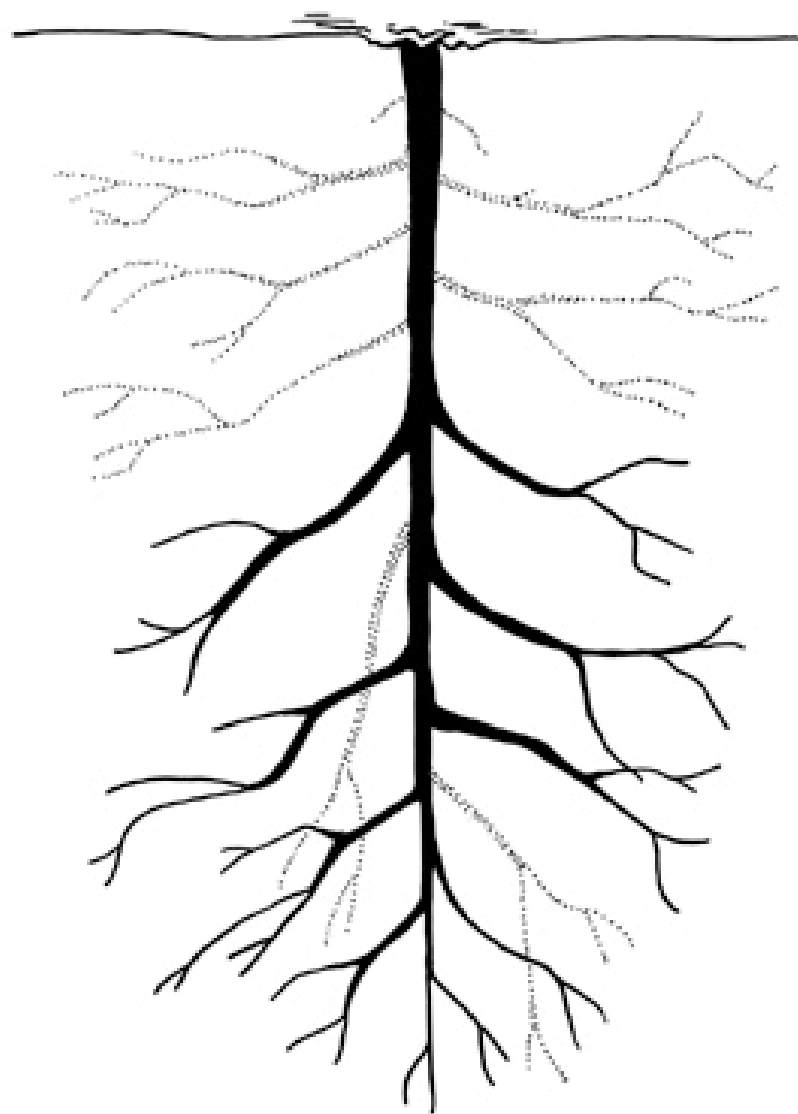
Exercise ter

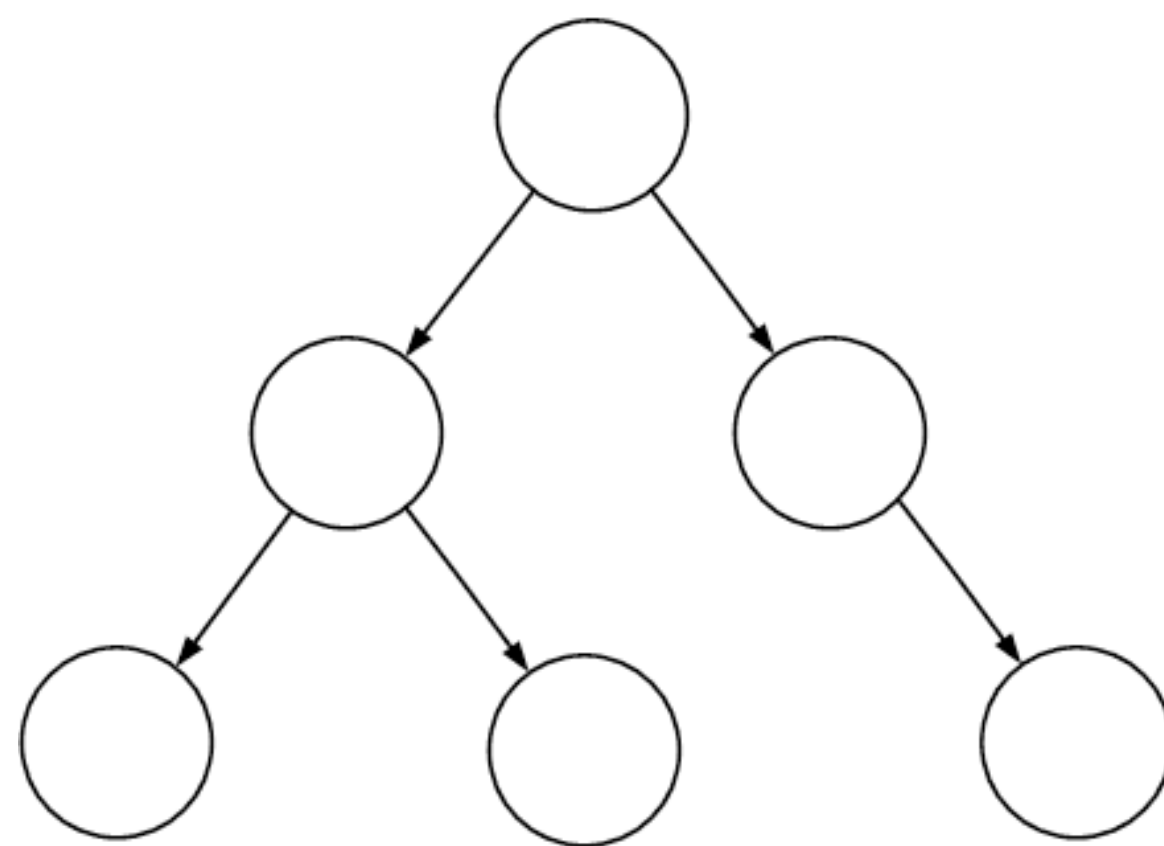
Filter names starting with "B"
starting with "C"

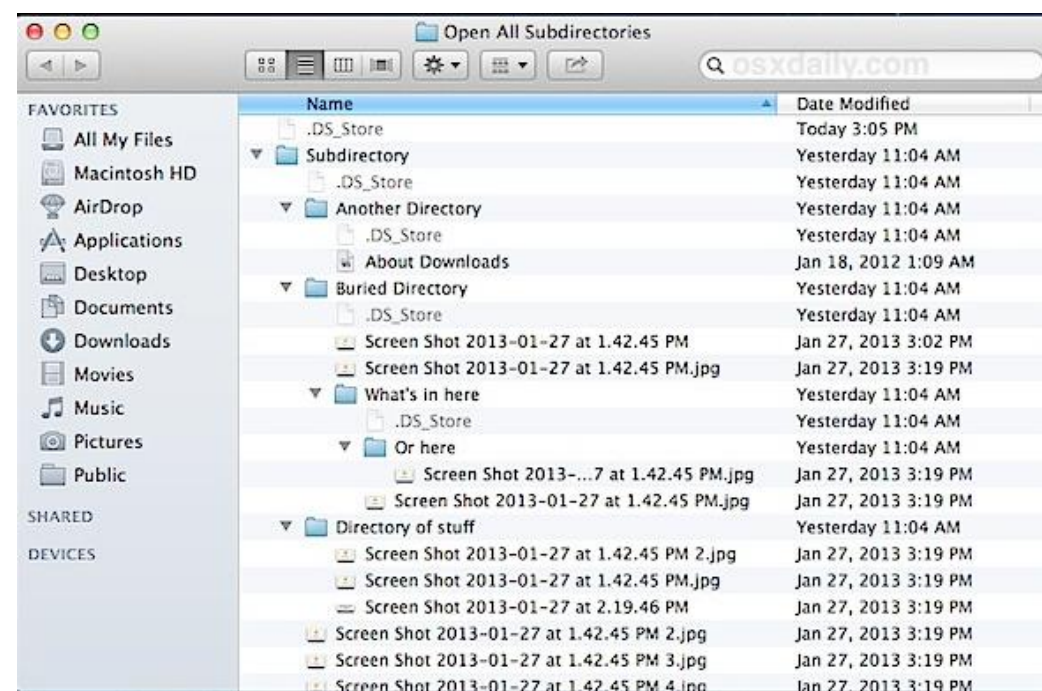
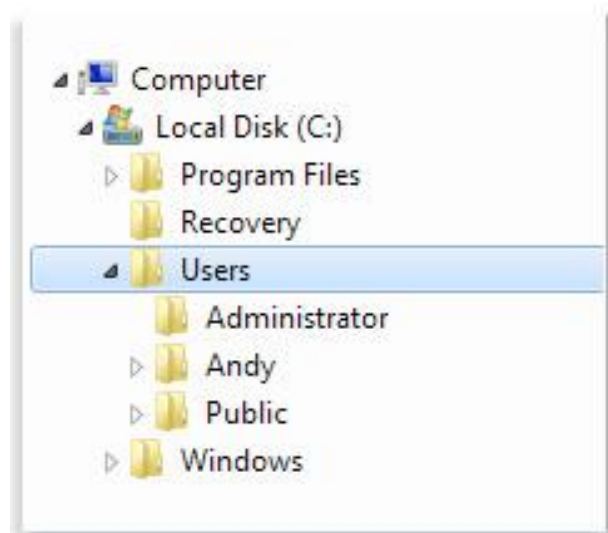
...

DOM









<html>

<head>

<title>Hello</title>

</head>

<body>

<h1>

Hello

</h1>

<p>

Lorem Ipsum...

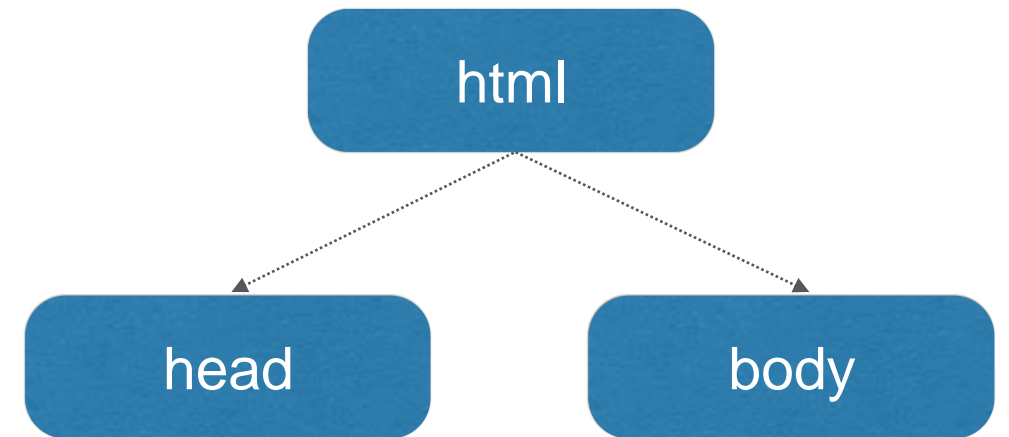
</p>

</body>

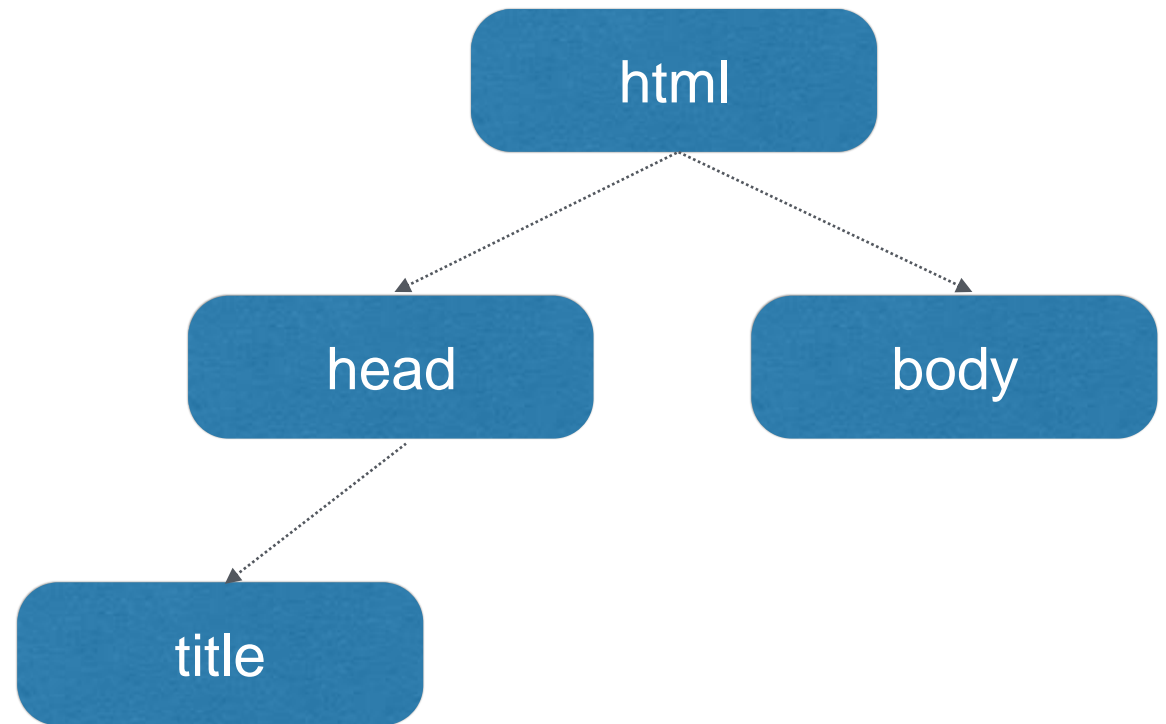
</html>

html

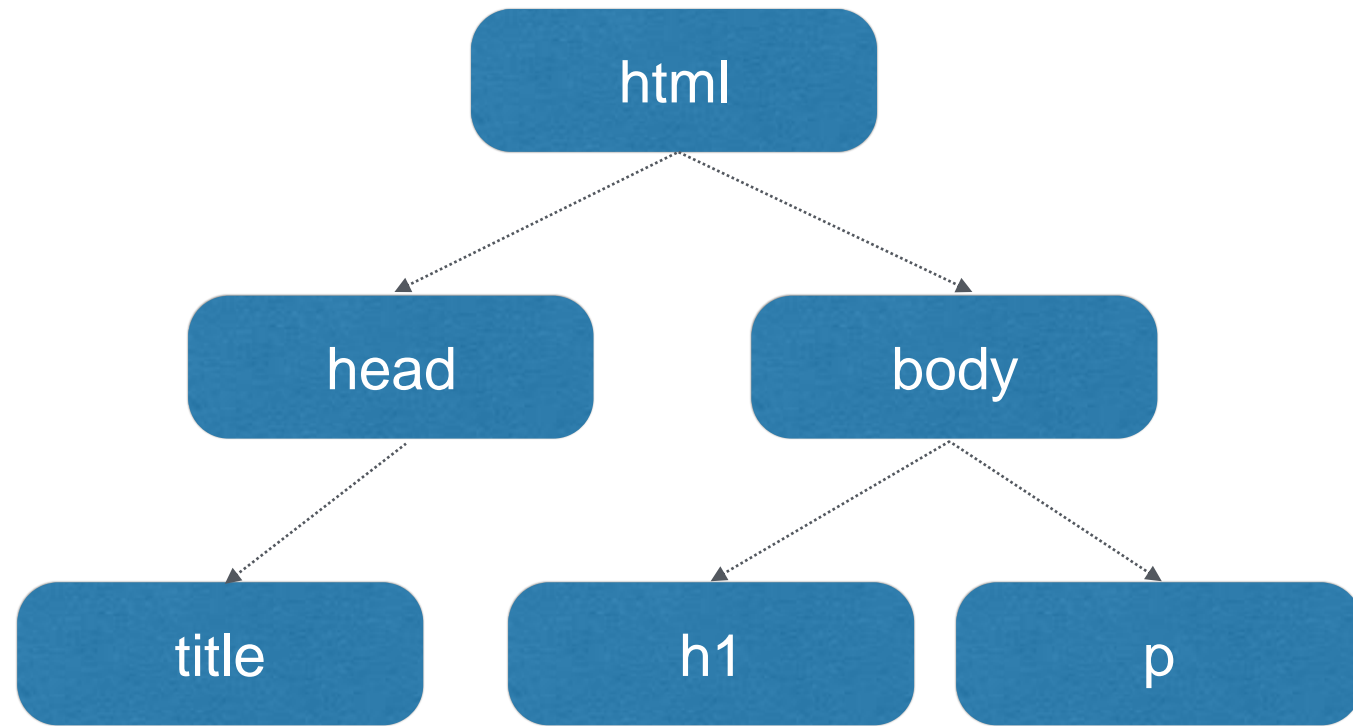
```
<html>  
  <head>  
    <title>Hello</title>  
  </head>  
  <body>  
    <h1>  
      Hello  
    </h1>  
    <p>  
      Lorem Ipsum...  
    </p>  
  </body>  
</html>
```



```
<html>
  <head>
    <title>Hello</title>
  </head>
  <body>
    <h1>
      Hello
    </h1>
    <p>
      Lorem Ipsum...
    </p>
  </body>
</html>
```



```
<html>
  <head>
    <title>Hello</title>
  </head>
  <body>
    <h1>
      Hello
    </h1>
    <p>
      Lorem Ipsum...
    </p>
  </body>
</html>
```



1 - DOM Manipulation

Element Selector

```
<h1>  
  Hello  
</h1>  
<p>  
  Lorem Ipsum...  
</p>  
<p>  
  Autrum Ipsum...  
</p>
```

p

```
document.querySelector('p').hidden = true
```

Class selector

```
<div class="green">  
  Hello  
</div>  
<div class="red">  
  [...]  
</div>  
<div class="red">  
  [...]  
</div>
```

.red

```
document.querySelector('.red').hidden = true
```


Id selector

```
<h1>  
  Hello  
</h1>  
<div id="cart">  
  [...]  
</div>  
<div>  
  [...]  
</div>
```

#cart

```
document.getElementById('cart').hidden = true
```

```
<div id="cart" class="red">  
  [...]  
</div>
```

```
<div id="cart" class="red">  
  [...]  
</div>
```



```
document.getElementById('cart').classList.add('bold')
```

```
<div id="cart" class="red">  
  [...]  
</div>
```



```
document.getElementById('cart').classList.add('bold')
```



```
<div id="cart" class="bold red">  
  [...]  
</div>
```

```
<div id="cart" class="bold red">  
  [...]  
</div>
```



```
document.getElementById('cart').classList.remove('bold')
```



```
<div id="cart" class="red">  
  [...]  
</div>
```

2 - Event Handling

```
playButton = document.getElementById('play-button')  
  
playButton.addEventListener('click', (event) => {  
  // Do something when `playButton` is clicked  
});
```

3 - AJAX

(To be continued...)

Resources

The JavaScript Programm

fr.slideshare.net/guestceb98b/the-javascript-programming-language

in SlideShare

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The JavaScript Programming Language

Douglas Crockford

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Javascript Best Practices

Christian Heilmann

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JavaScript Programming

Sehwan Noh

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Amazon.fr - Javascript: The Good Parts

www.amazon.fr/Javascript-Good-Parts-D-Crockford/dp/0596517742/ref=sr_1_1?ie=UTF8&qid=1444913288&sr=8-1&keywords=javascript+the+go...

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JavaScript: The Good Parts: The Good Parts et plus d'un million d'autres livres sont disponibles pour le Kindle d'Amazon. En savoir plus

Retour aux résultats de la recherche pour « javascript the good parts »

Feuilleter



JavaScript: The Good Parts (Anglais) Broché – 16 mai 2008

de D Crockford (Auteur)

★★★★★ 22 commentaires client

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JavaScript · Bootstrap

getbootstrap.com/javascript/

Aww yeah, Bootstrap 4 is coming!

Bootstrap

Getting started

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JavaScript

Bring Bootstrap's components to life with over a dozen custom jQuery plugins. Easily include them all, or one by one.



Real-time image resizing as a service. 70ms response times. Free to try.
ads via Carbon

Overview

Individual or compiled

Plugins can be included individually (using Bootstrap's individual `*.js` files), or all at once (using `bootstrap.js` or the minified `bootstrap.min.js`).

Using the compiled JavaScript

Both `bootstrap.js` and `bootstrap.min.js` contain all plugins in a single file. Include only one.

Overview

Transitions

Modal

Dropdown

Scrollspy

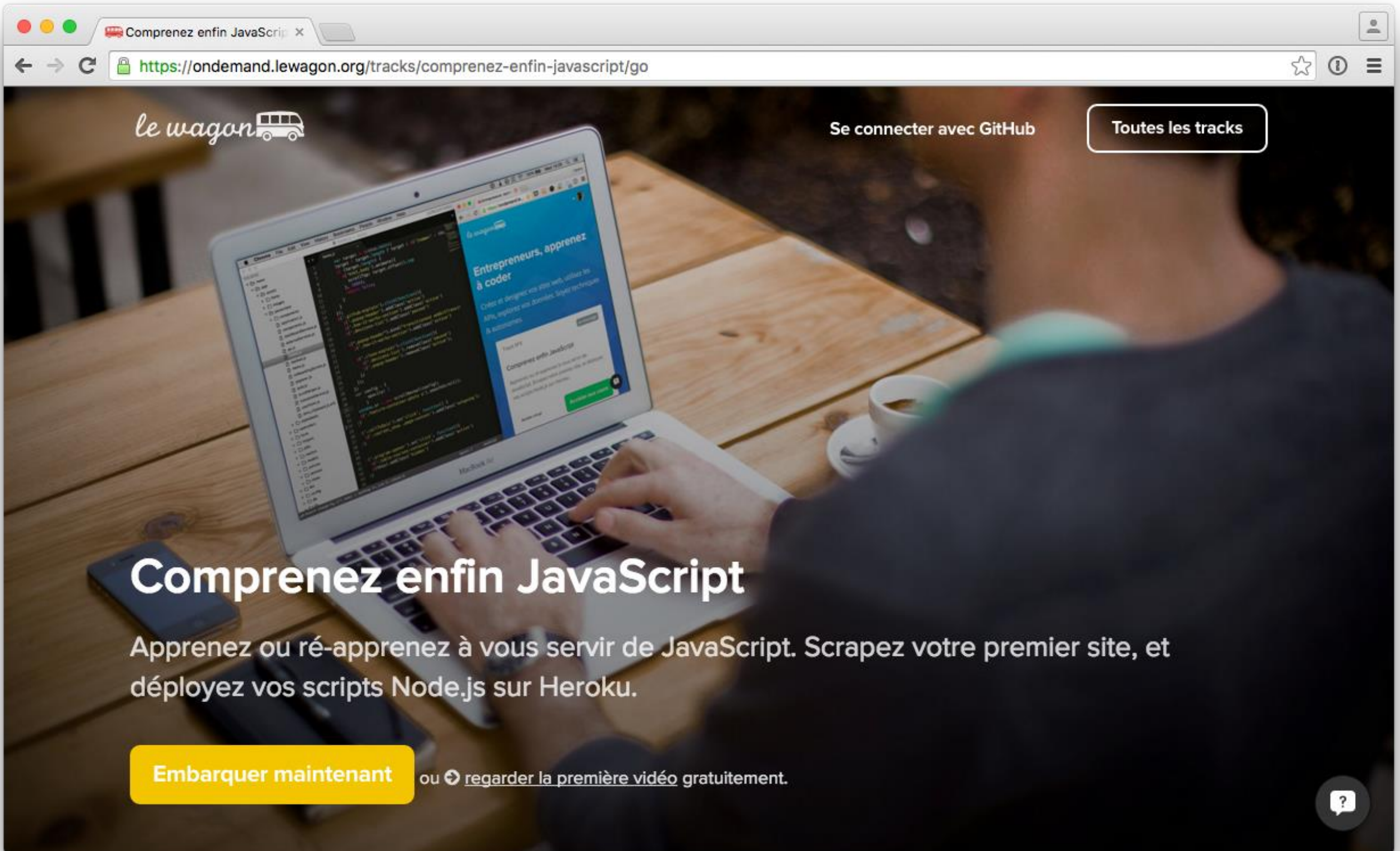
Tab

Tooltip

Popover

Alert


Button



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(Jusqu'à dimanche, 23h)