# JavaScript for Beginners



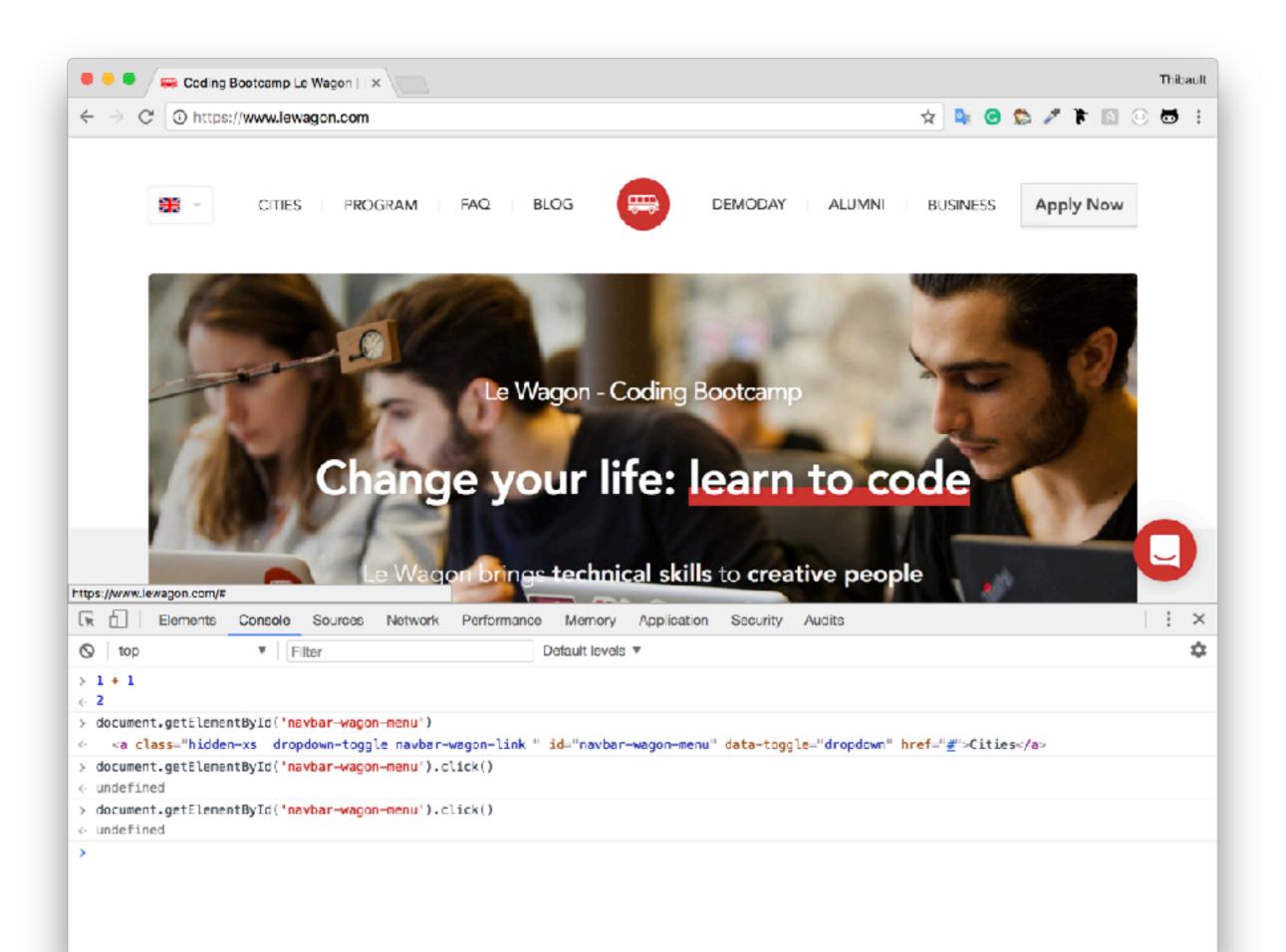
## Thibault Genaitay Driver @ Le Wagon

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#### Let's talk about JavaScript

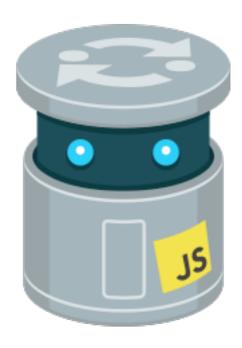
#### In-browser language

(since 1995)





#### **Sublime Text**



JS Bin

## Data types

typeof

#### Numbers

#### Boolean

#### Strings

```
-100
0
1
3.14
42
```

```
true
false
```

```
"John"
"John Lennon"
"a"
```

#### **Objects**

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

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

## Variables

var

#### var firstName;



#### var 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");
}
```

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

```
var weather = "raining";

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

#### **Exercise**

Filter names starting with a "B"

## Loops

for, while

#### **Array**

```
var students = [ "john", "paul", "ringo" ];
students.length // => 3

students[0]  // => "john"
students[2]  // => "ringo"
students[1]  // => "paul"
```

#### For

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

#### While

```
var i = 0;
while (i < students.length) {
  console.log(students[i]);
  i += 1;
}</pre>
```

## Functions

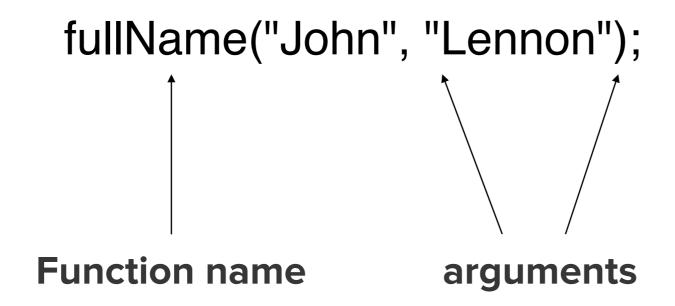
function

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

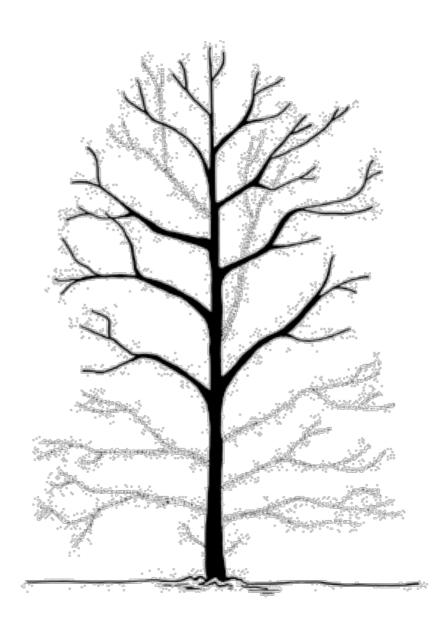
#### **Example: Full Name**

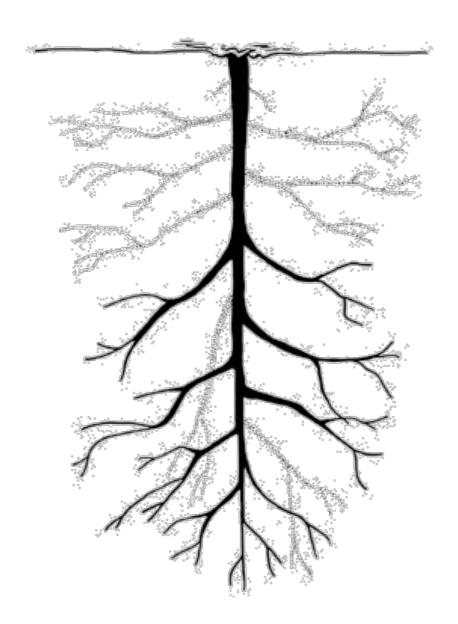
```
function fullName(first, last) {
  var name = first + " " + last;
  return name;
}
```

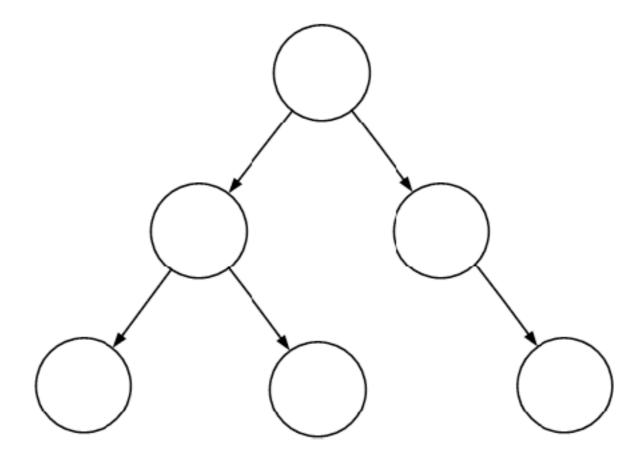
#### Calling a function

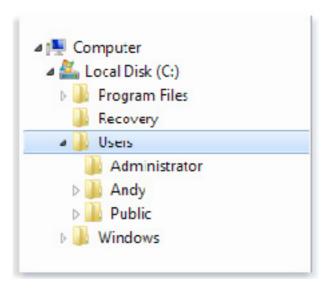


## DOM







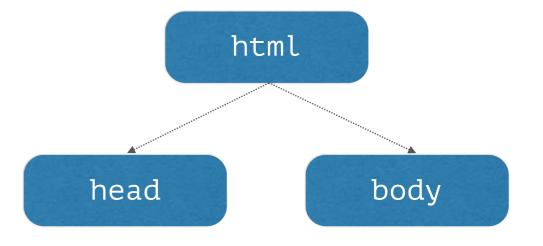


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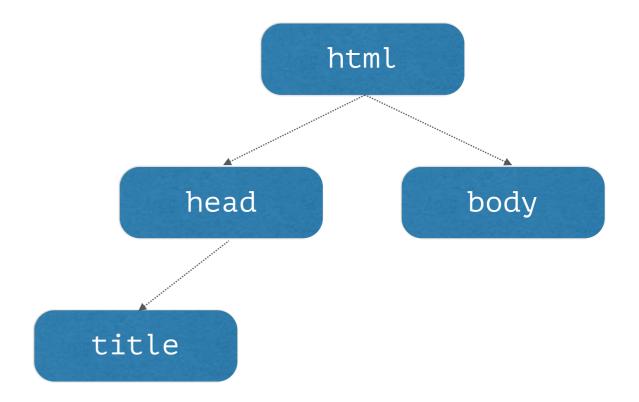
```
<html>
  <head>
    <title>Hello</title>
  </head>
  <body>
    <h1>
      Hello
    </h1>
    >
      Lorem Ipsum...
    </body>
</html>
```

html

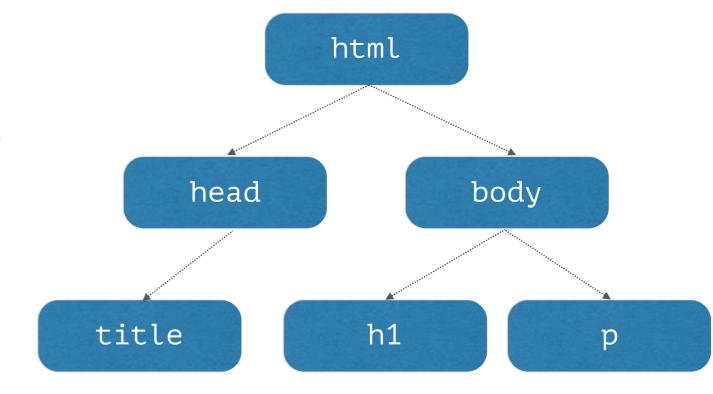
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```



## DOM Manipulation

## **ID Selector**

```
<h1>
<h1>
Hello</h1>
</h1>
<a id="clickme">
Lorem Ipsum...
```

### #clickme

```
document.getElementById("clickme").remove();
```

### Class selector

```
<div class="green">
   Hello
</h1>
<div class="red">
   [...]
</div>
<div class="red">
   [...]
</div>
</div>
```

#### .red

document.getElementsByClass("red")

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

```
<div id="cart" class="red">
                   [ ... ]
                 </div>
document.getElementById("cart").classList.add('animated');
                 <div id="cart" class="red animated">
                   [ ... ]
                 </div>
```

## **Event Handling**

click submit scroll focus

```
var btn = document.getElementById("clickme");
btn.addEventListener("click", animate);

function animate(event){
  var target = event.target
  target.classList.add('animated');
  target.classList.add('infinite');
  target.classList.add('pulse');
}
```

# jQuery



#### https://code.jquery.com/jquery-1.11.3.min.js

```
$(document).ready(function() {
   // The jQuery-dependent code
});
```