JavaScript

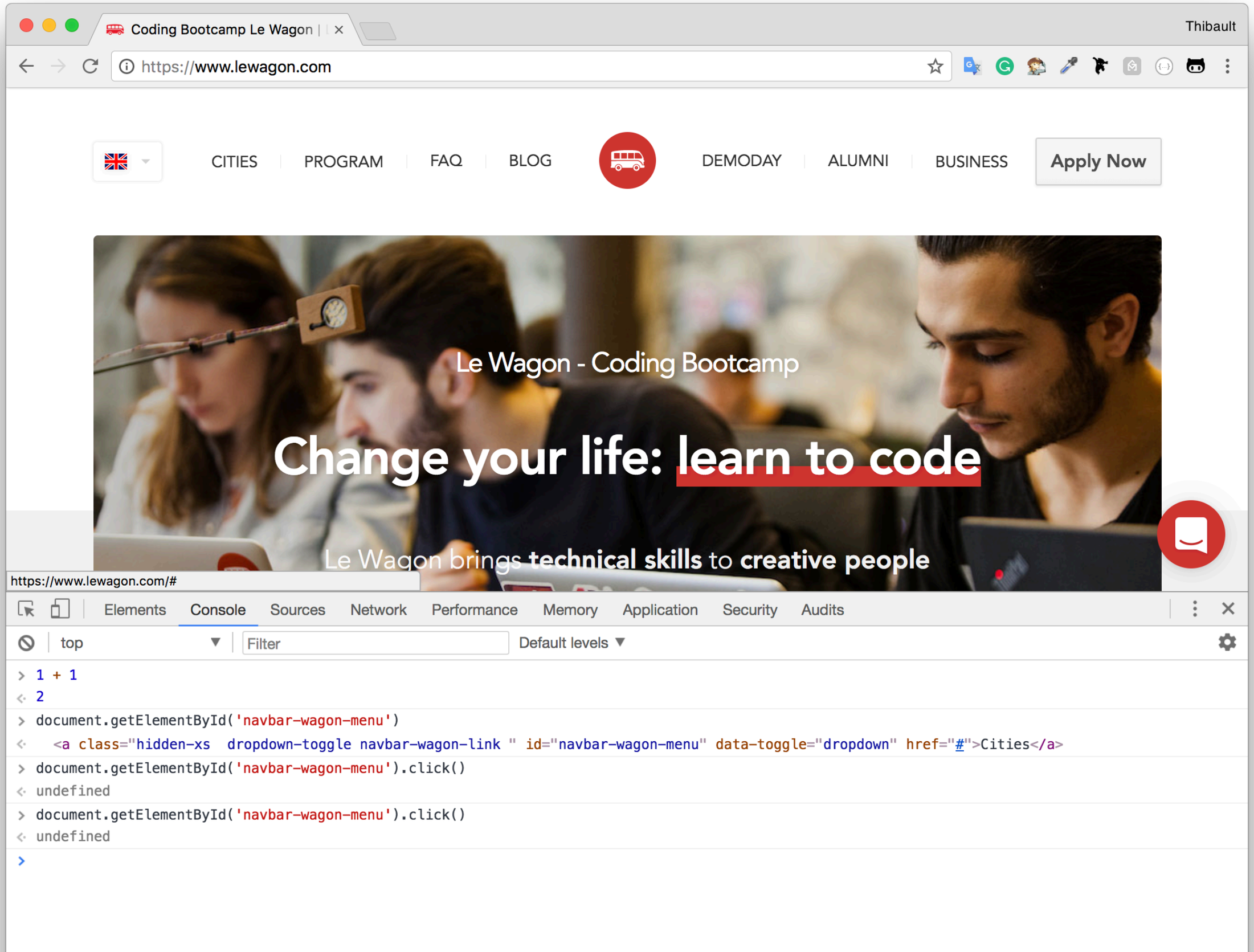
for Beginners

@tgenaitay

Let's talk about JavaScript

In-browser language

(since 1995)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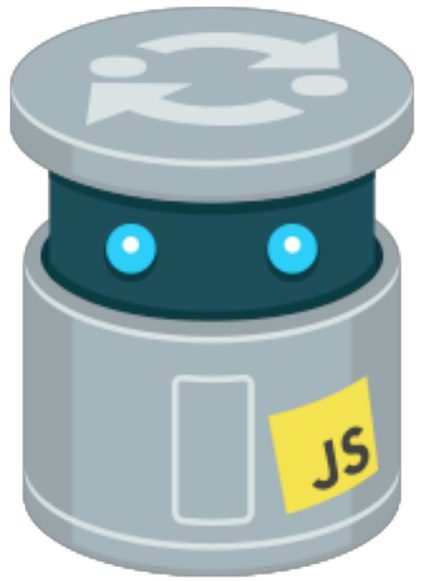
Elements
Console
Sources
Network
Performance
Memory
Application
Security
Audits
top
Filter
Default levels
> 1 + 1
< 2
> document.getElementById('navbar-wagon-menu')
< <a class="hidden-xs dropdown-toggle navbar-wagon-link " id="navbar-wagon-menu" data-toggle="dropdown" href="#">Cities</a>
> document.getElementById('navbar-wagon-menu').click()
< undefined
> document.getElementById('navbar-wagon-menu').click()
< undefined
>

Sublime Text



JS Bin

Data types

typeof

Numbers	Boolean	Strings
-100		"John"
0	true	"John Lennon"
1	false	"a"
3.14		""
42		

Objects

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

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

Variables

var

```
var firstName;
```

```
var firstName = "John";
```

"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 != true) {
  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]);
}
```

While

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

Functions

function

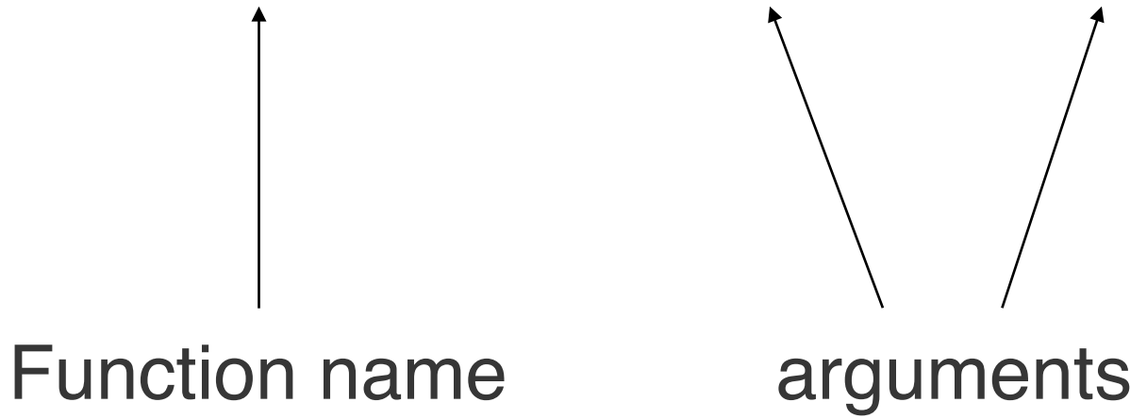
```
function name(parameters) {
  body
    (return statement)
}
```

Example: Full Name

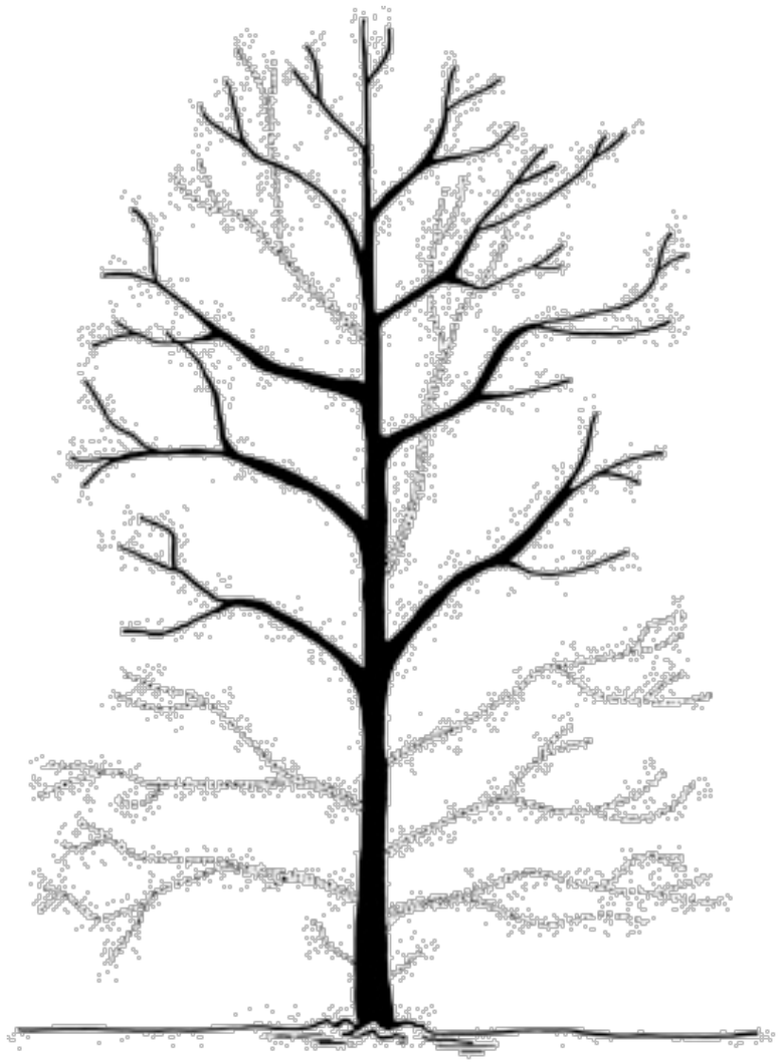
```
function fullName(first, last) {
  var name = first + " " + last;
  return name;
}
```

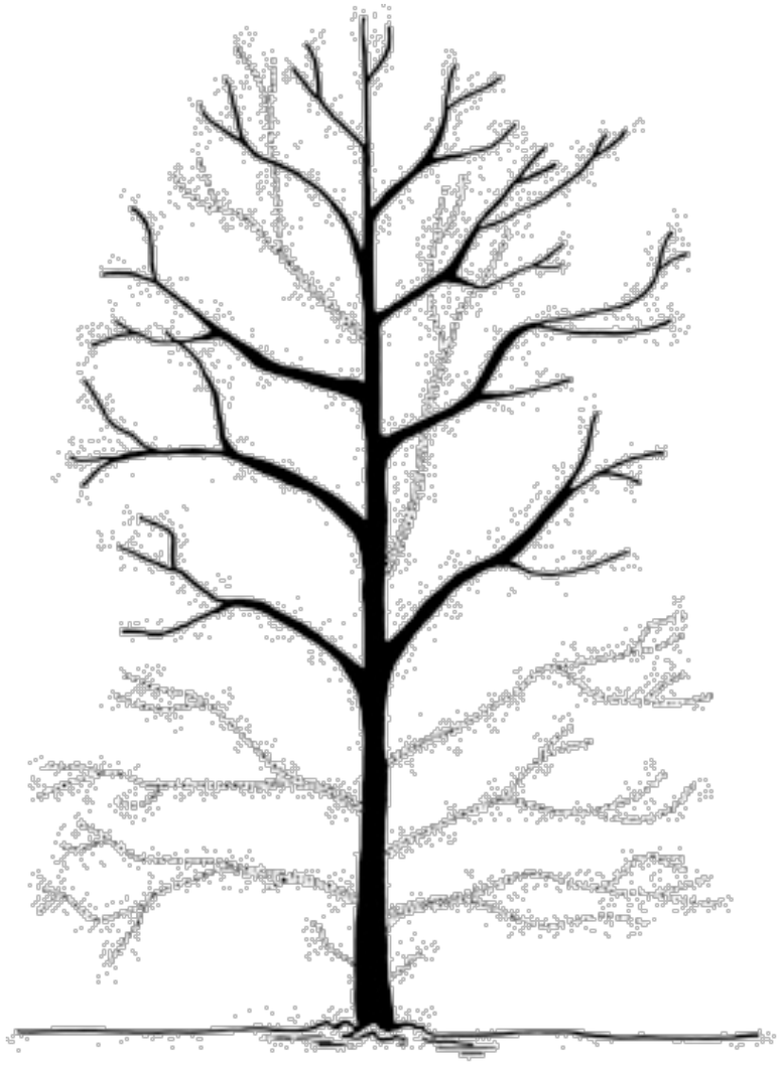
Calling a function

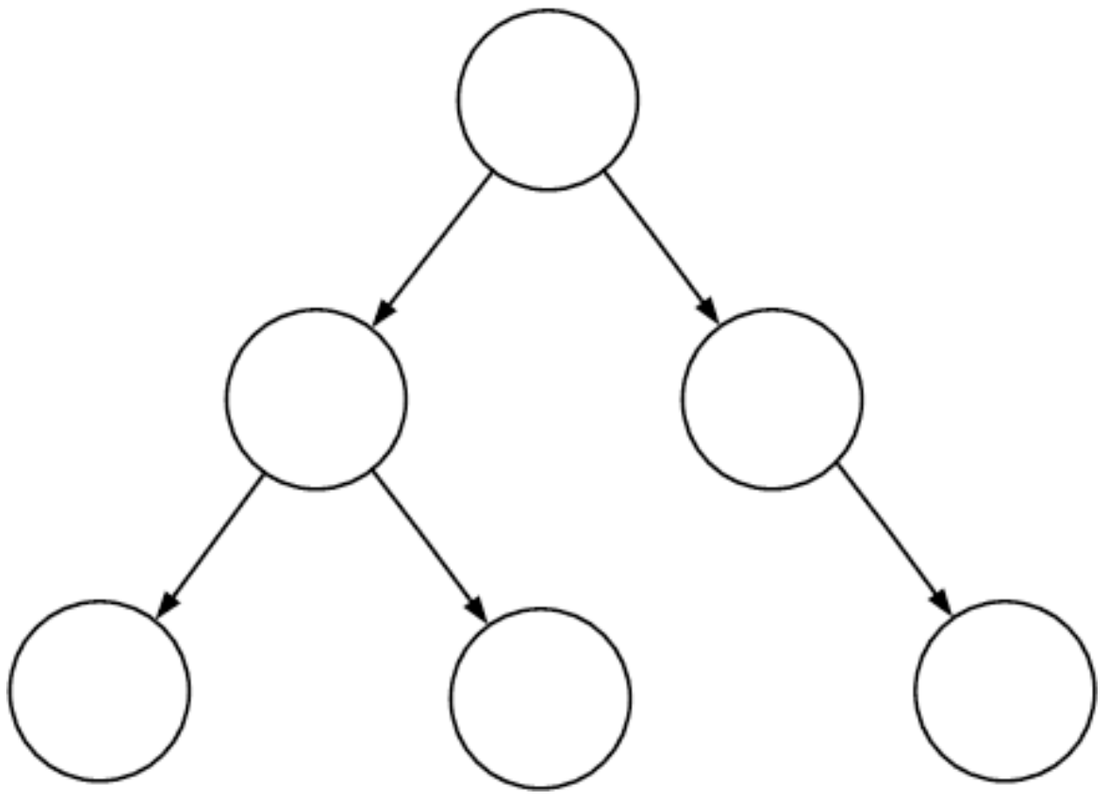
```
fullName("John", "Lennon");
```

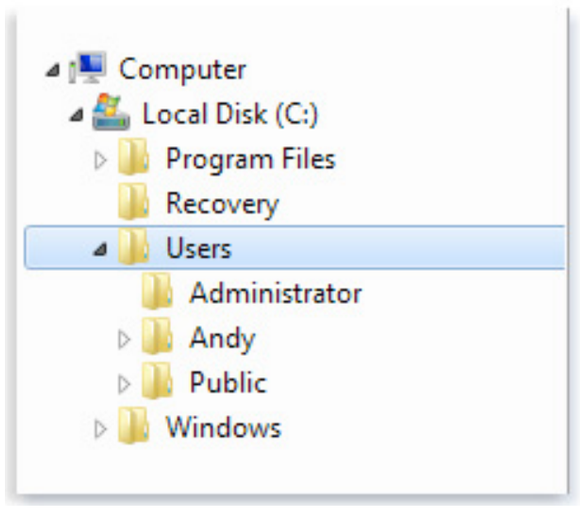


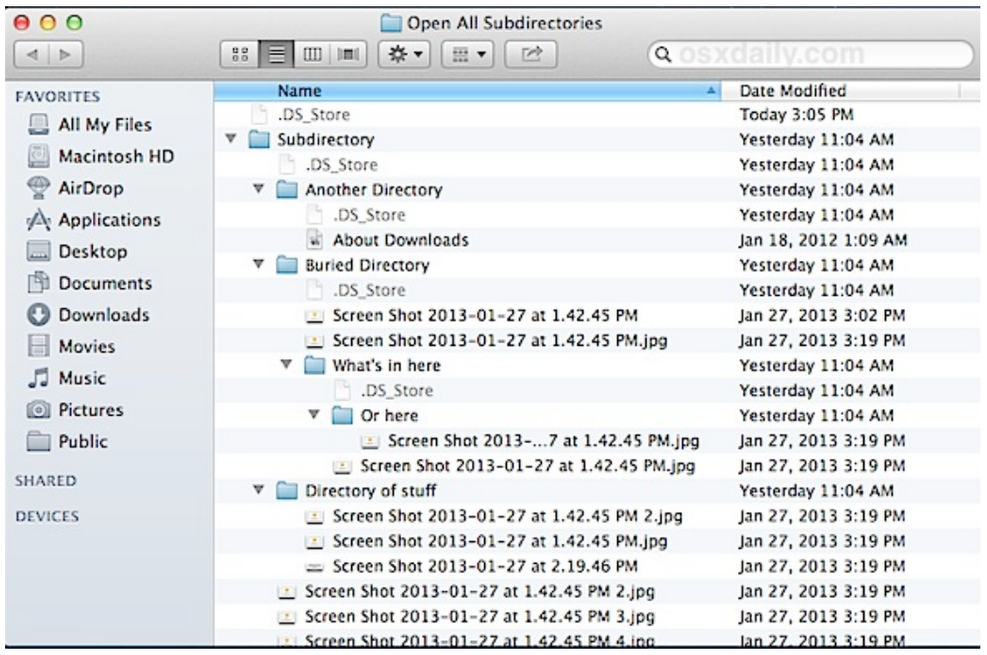
DOM








Computer
Local Disk (C:)
Program Files
Recovery
Users
Administrator
Andy
Public
Windows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Public
SHARED
DEVICES
Name
Date Modified
.DS_Store
Today 3:05 PM
Subdirectory
Yesterday 11:04 AM
.DS_Store
Yesterday 11:04 AM
Another Directory
Yesterday 11:04 AM
.DS_Store
Yesterday 11:04 AM
About Downloads
Jan 18, 2012 1:09 AM
Buried Directory
Yesterday 11:04 AM
.DS_Store
Yesterday 11:04 AM
Screen Shot 2013-01-27 at 1.42.45 PM
Jan 27, 2013 3:02 PM
Screen Shot 2013-01-27 at 1.42.45 PM.jpg
Jan 27, 2013 3:19 PM
What's in here
Yesterday 11:04 AM
.DS_Store
Yesterday 11:04 AM
Or here
Yesterday 11:04 AM
Screen Shot 2013-...7 at 1.42.45 PM.jpg
Jan 27, 2013 3:19 PM
Screen Shot 2013-01-27 at 1.42.45 PM.jpg
Jan 27, 2013 3:19 PM
Directory of stuff
Yesterday 11:04 AM
Screen Shot 2013-01-27 at 1.42.45 PM 2.jpg
Jan 27, 2013 3:19 PM
Screen Shot 2013-01-27 at 1.42.45 PM.jpg
Jan 27, 2013 3:19 PM
Screen Shot 2013-01-27 at 2.19.46 PM
Jan 27, 2013 3:19 PM
Screen Shot 2013-01-27 at 1.42.45 PM 2.jpg
Jan 27, 2013 3:19 PM
Screen Shot 2013-01-27 at 1.42.45 PM 3.jpg
Jan 27, 2013 3:19 PM

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

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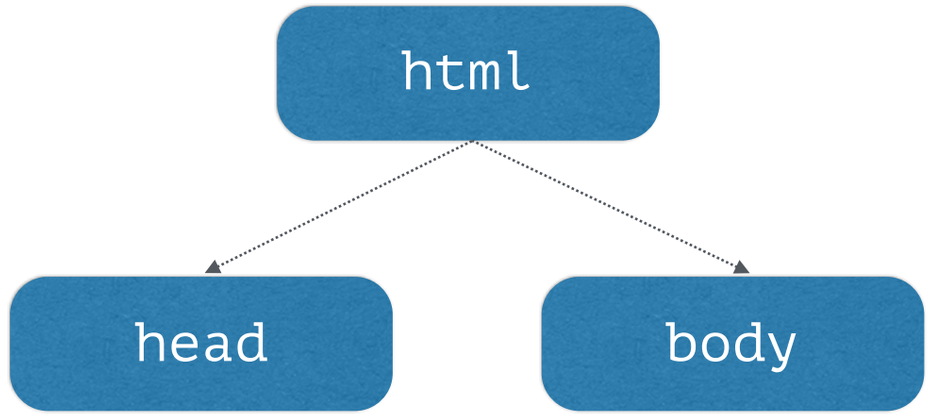

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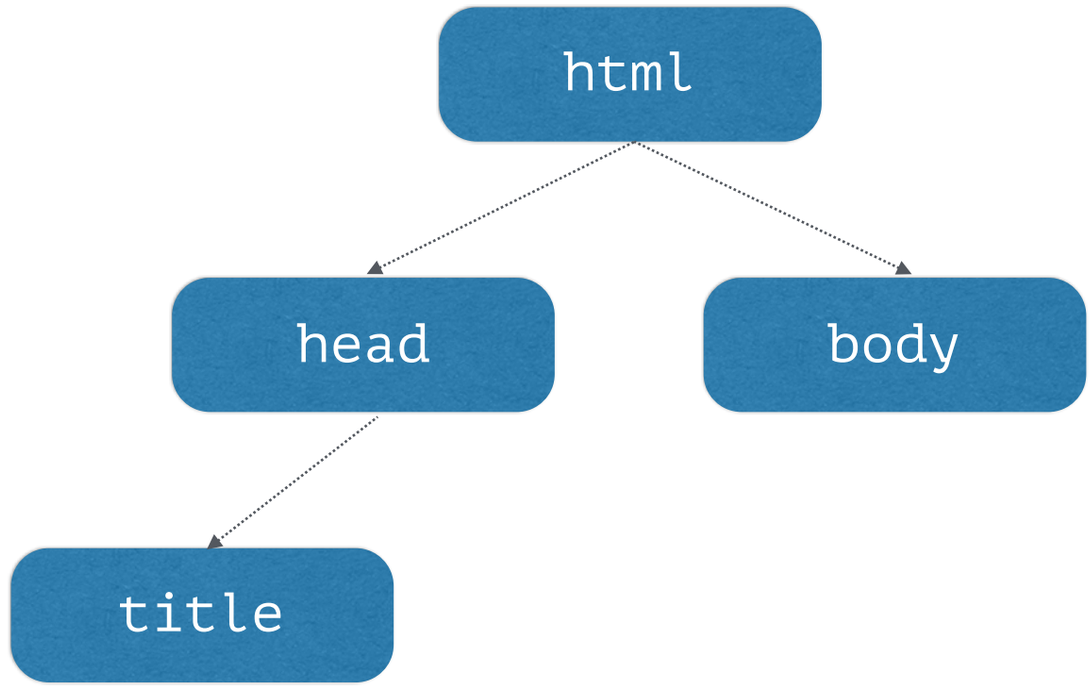

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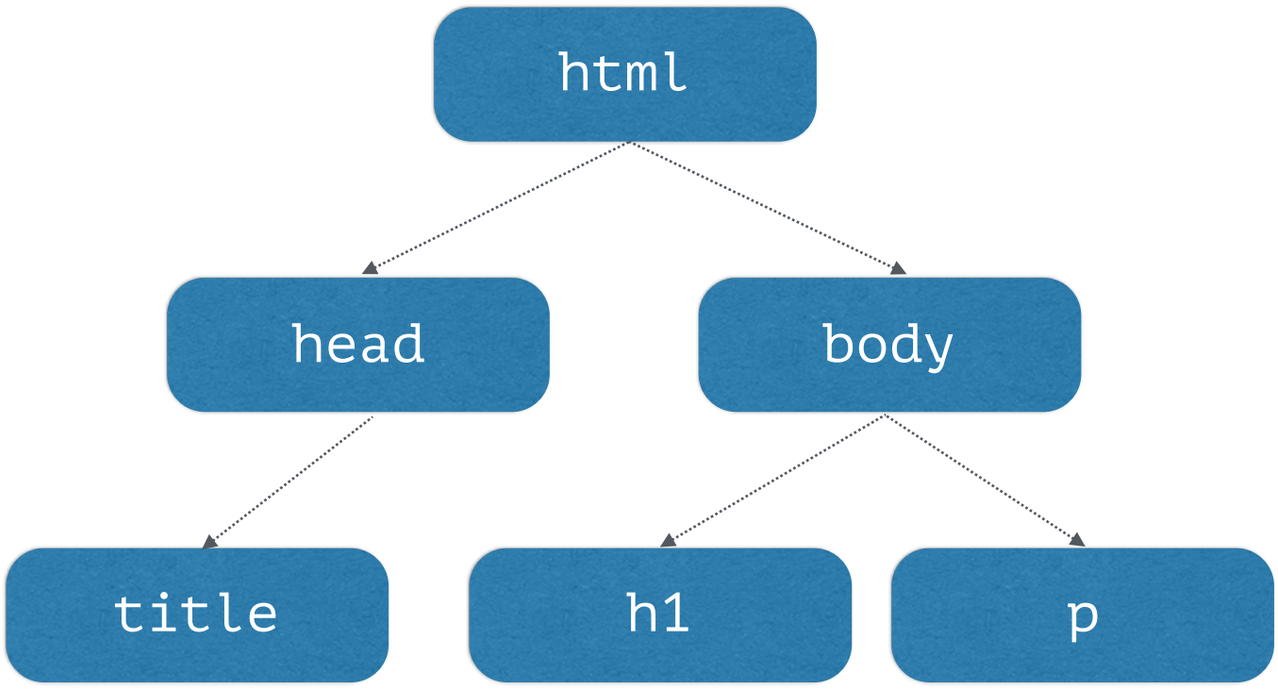
</html>
```



DOM Manipulation

ID Selector

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

#clickme

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

Class selector

```
<div class="green">
  Hello
</h1>
<div class="red">
  […]
</div>
<div class="red">
  […]
</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');
}
```