Intro to the DOM

Finally, JS meets HTML+CSS

Objectives

- Define what the DOM is
- Understand why DOM Manipulation is awesome
- List a few examples of sites that use JS to manipulate the DOM
- Understand the SELECT, then MANIPULATE workflow

Why Should You Care?

A few examples:

- Games
- Scrolling Effects
- Dropdown menus
- Form Validations
- Interactivity
- Animations
- Every awesome site ever

The DOM

Document Object Model

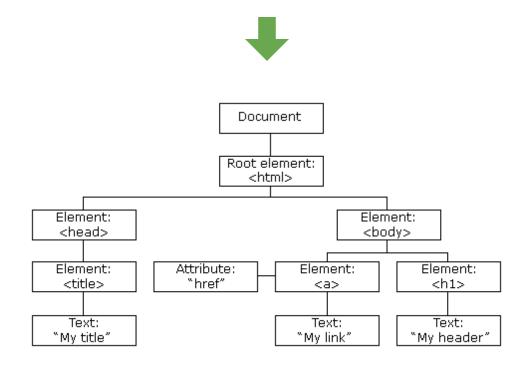
The Document Object Model is the interface between your Javascript and HTML+CSS

The browser turns every
HTML tag into a
Javascript object that we
can manipulate

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Everything is stored inside of the *document* object



The Process

SELECT an element and then MANIPULATE

For our example, we'll change the <h1> color using JS

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The Process

SELECT an element and then MANIPULATE

```
var h1 = document.querySelector("h1");
```

SELECT the <h1> and save to a variable

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The Process

SELECT an element and then MANIPULATE

```
var h1 = document.querySelector("h1");
h1.style.color = "pink";
```

MANIPULATE using the <*h1*> we selected

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One more example

SELECT the <body> and change its color every second

```
var body = document.querySelector("body"); //SELECT
var isBlue = false;

setInterval(function(){ //MANIPULATE
  if (isBlue) {
    body.style.background = "white";
  } else {
    body.style.background = "#3498db";
  }
  isBlue = !isBlue;
}, 1000);
    call this function every 1s
```

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