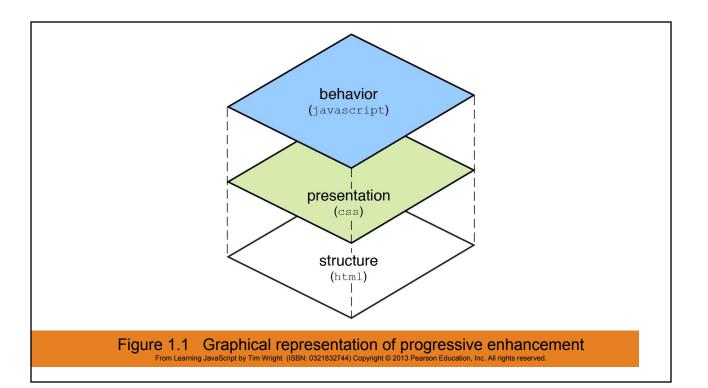
# **JavaScript**

Getting started with JS in the browser

# Progressive Enhancement

What is it?

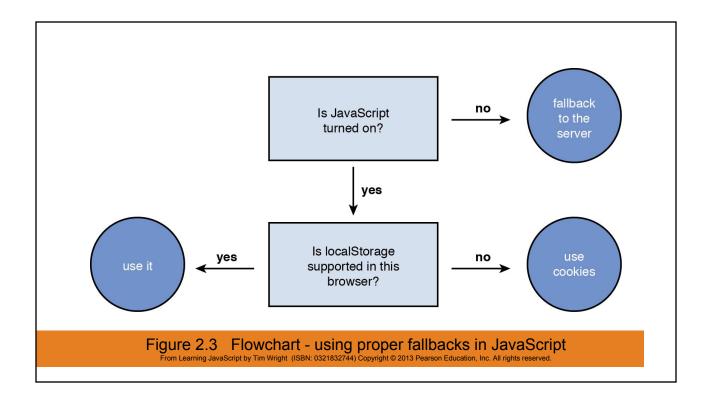
Why is it a good practice?



# JavaScript Fallbacks

What does it mean to have fallbacks for JS?

Why is it important?



#### **Performance**

Why is performance important?

What are some ways we can improve it?

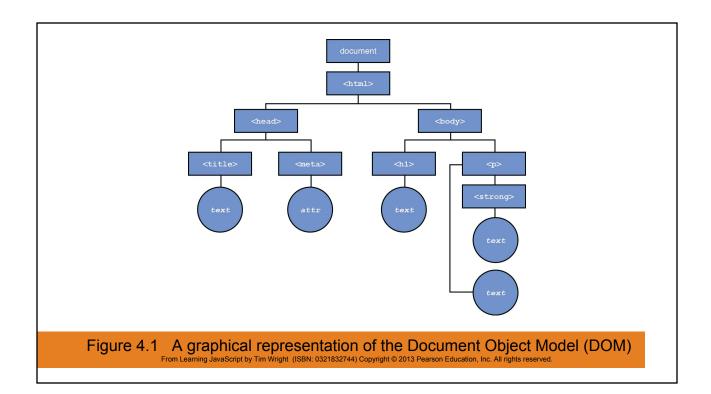
#### DOM

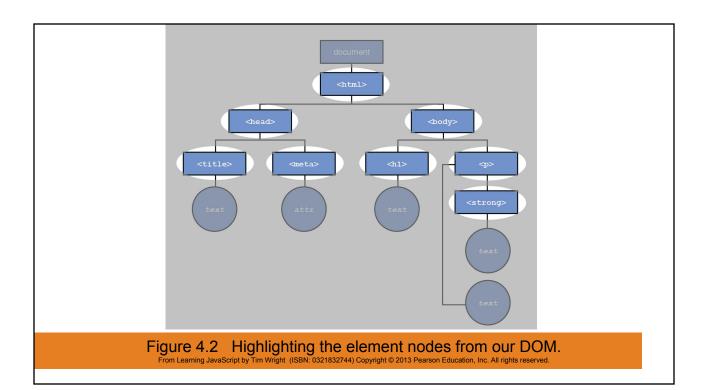
What does DOM stand for?

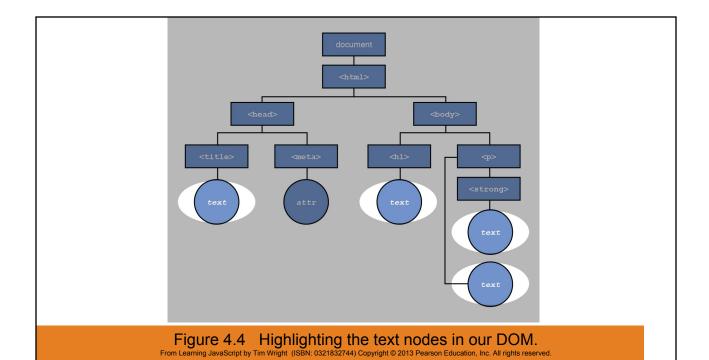
What is the DOM?

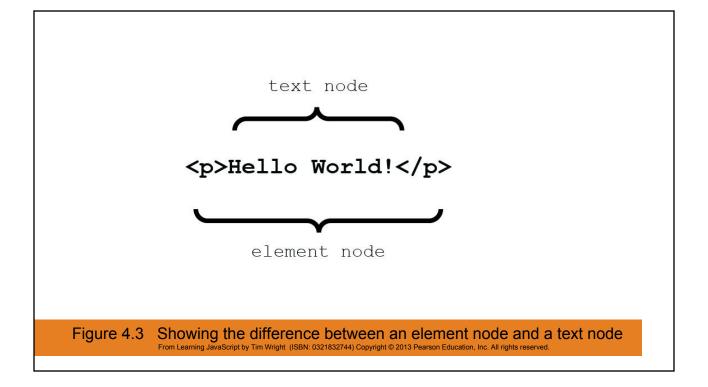
```
1 <!DOCTYPE html>
 2 ▼ <html>
4 ▼ <head>
        <meta charset="utf-8">
        <title>Basic DOM Example</title>
7 </head>
9 ▼ <body>
10
        <h1>Hello World</h1>
11 ♥
        >
12
            While this is a <strong>very basic HTML docuent</strong>,
13
            it actually serves as a detailed example of the document object model.
        14
15 </body>
16
17 </html>
```

#### Listing 4.1 Basic HTML Structure to illustrate the DOM From Learning JavaScript by Tim Wright (ISBN: 0321832744) Copyright © 2013 Pearson Education, Inc. All rights reserved.









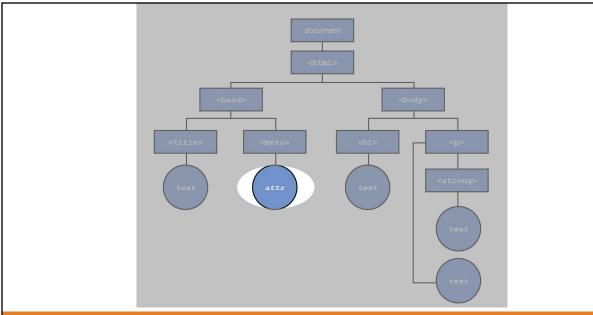


Figure 4.6 Highlighting the only attribute node in our DOM example.

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## **Accessing Elements**

Target by tag name or ID:

```
document.getElementByTagName("h1");
```

document.getElementById("someID");

### Moving around the DOM

Remember that relationships in the DOM are like a family tree.

The following properties get the described element, relative to the target:

- parentNode
- previousSibling
- nextSibling
- firstChild
- lastChild

### Handling Multiples

The elements returned from getElementsById() are in an array.

You can access a single element from the array by using array notation.

To use each element returned, use a for loop.

### **Modifying Attributes**

#### Does it have the attribute?

hasAttribute("class")

#### Use JavaScript to add/remove attribute

- setAttribute("class", "someClass")
- removeAttribute("class")

```
var paras = document.getElementsByTagName("p");
for (int i = 0; i < paras.length; i++) {
    current = paras[i];
    current.setAttribute("class", "hide");
}</pre>
```

Using a for loop to hide each paragraph

### Add / Remove Elements

We can modify the DOM to add / remove elements, changing the look of the page.

- createElement()
- createTextNode()
- appendChild()
- removeChild()

### Create a New Paragraph

Add a new paragraph with text:

```
var target = document.getElementById("target");
var p = document.createElement("p");
var text = document.createTextNode("text here");
p.appendChild(text);
target.appendChild(p);
```

# **Assignment**

Fix up Moonflower's Coffee Shop:

https://github.com/htc-ccis2591/dom-access

Due next week before class.

Fork & Submit a Pull Request.