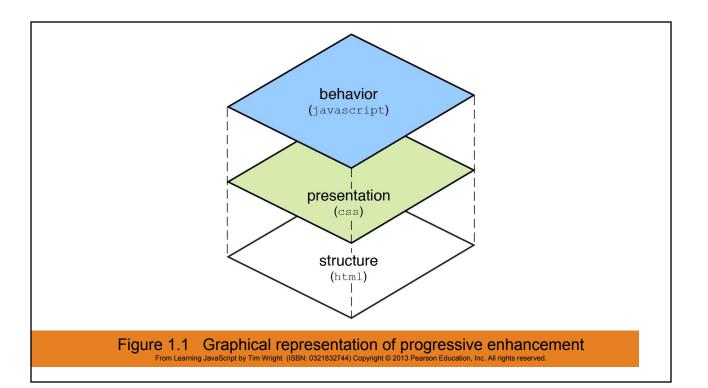
JavaScript

Getting started with JS in the browser

Progressive Enhancement

What is it?

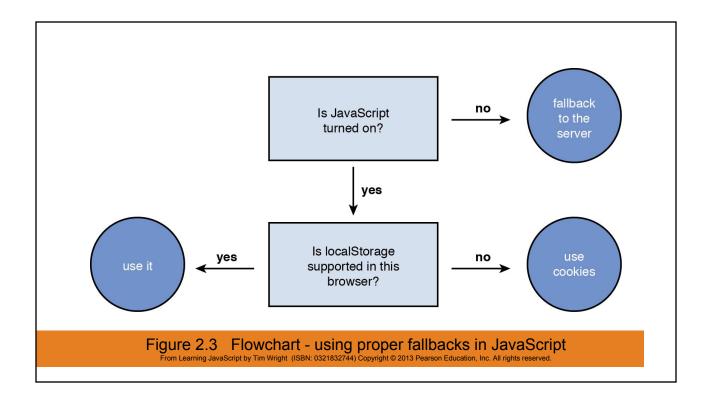
Why is it a good practice?



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?

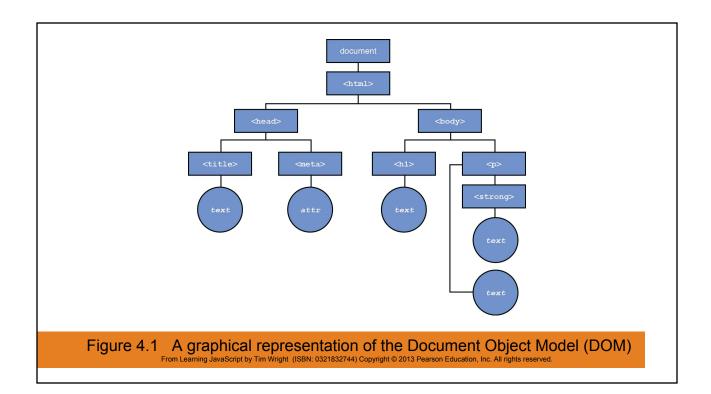
DOM

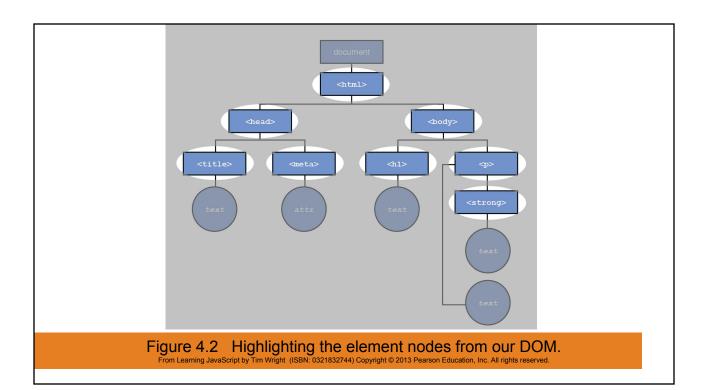
What does DOM stand for?

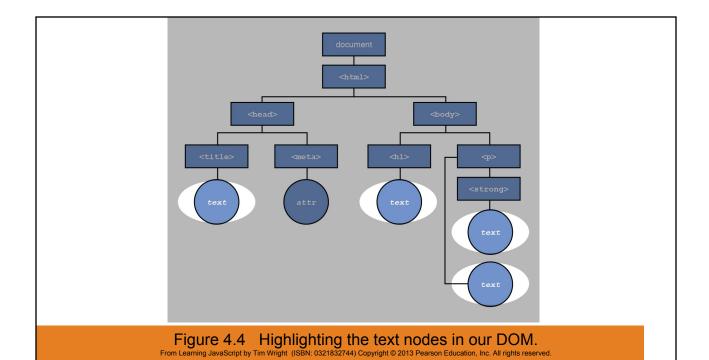
What is the DOM?

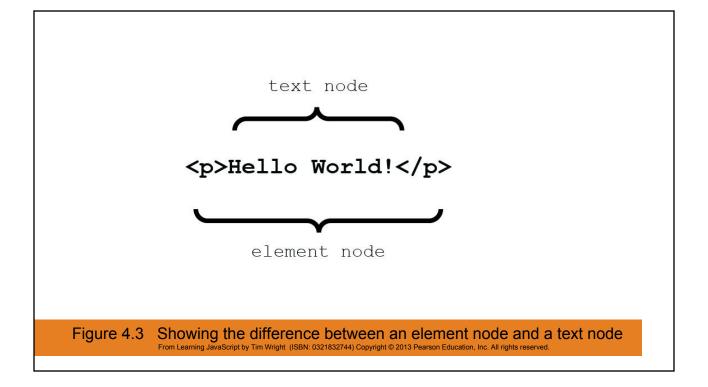
```
1 <!DOCTYPE html>
 2 ▼ <html>
4 ▼ <head>
        <meta charset="utf-8">
        <title>Basic DOM Example</title>
7 </head>
9 ▼ <body>
10
        <h1>Hello World</h1>
11 ♥
        >
12
            While this is a <strong>very basic HTML docuent</strong>,
13
            it actually serves as a detailed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









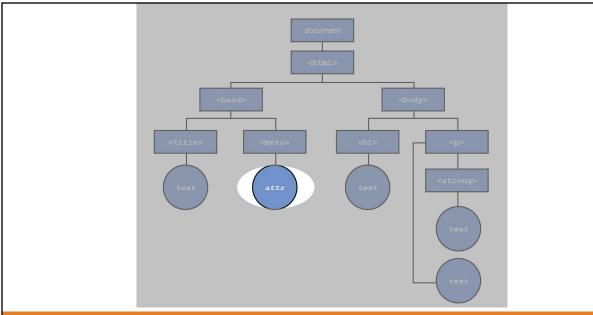


Figure 4.6 Highlighting the only attribute node in our DOM example.

From Learning JavaScript by Tim Wright (ISBN: 0321832744) Copyright © 2013 Pearson Education, Inc. All rights reserved.

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.

- parentNode
- previousSibling
- nextSibling
- firstChild
- lastChild

Modifying Attributes

Does it have the attribute?

hasAttribute("class")

Use JavaScript to add/remove attribute

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

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.