Announcements

• Due date changes
  * Labs 7/8 due before noon this Wed. (May 14)
  • Last page is extra credit
  * Project 2B due before noon next Wed. (May 21)
## Drop-In Labs

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>10am</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11am</td>
<td>MGH 330K</td>
<td>MGH 430</td>
<td>MGH 330J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12pm</td>
<td></td>
<td></td>
<td></td>
<td>MGH 330K</td>
<td></td>
</tr>
<tr>
<td>1pm</td>
<td></td>
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</tr>
<tr>
<td>2pm</td>
<td></td>
<td></td>
<td>MGH 044 [MGH 058 on</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5/21 and 6/04]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3pm</td>
<td>OUGL 101</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4pm</td>
<td>MGH 430</td>
<td></td>
<td></td>
<td></td>
<td>MGH 030</td>
</tr>
<tr>
<td>5pm</td>
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</tr>
<tr>
<td>6pm</td>
<td></td>
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</tr>
</tbody>
</table>
Announcement

• Lecture Friday is canceled
  * MGH is venue for Undergraduate Research Symposium
  * Noon - 5pm throughout Mary Gates
  * You're excused from lecture to attend!
  * 4th floor labs are still available
Quiz and Quick Write

• This week
  * Review the questions at the end of these chapters:
    • Fluency chapters 18 and 20
    • QuickStart chapters 1 and 2
  • All JavaScript!

• Topics will include:
  • Variables
  • Values & data types
  • Assignment statements
  • Rules for identifiers
  • Conditionals
  • Loops
  • Arrays
  • Functions
  • Curly brackets
Understanding the document tree, revisited

**DOCUMENT OBJECT MODEL (DOM)**
DOM Exercise 2
“trees are great for folks that are far away.”

“depth-first”

“Our”

“breadth-first”

em

“trees are a favorite for nearby neighbors.”

div

“You can view other products in the”

“Main Menu”

Did you get this one? Remember, every bit of text in the HTML has to be represented, even punctuation.

“Below are two binary tree options:”

“Binary Tree Selection”

Did you get this one? Remember, every bit of text in the HTML has to be represented, even punctuation.
With this "top-down" view of the HTML, you can see a node's parent element, and any child nodes, easily.

When you're working with the DOM, the "top" of the tree is the root element. In a web page, that's `<html>`.

Even though we flipped the tree over, we still move from left-to-right when we order nodes.

Here's the text in the second `<div>`, broken up into several text nodes to keep the emphasized word in the right place.
The DOM Tree

A new type of tree: the DOM tree

Once the browser has your markup with the `<html>` element at the top, it creates a new object for each node in the tree. The result is a bunch of objects, all “connected” together, like you see here:

This entire thing is usually called a DOM tree, because it represents your document using objects and provides a tree model of your markup.

We've ditched the tree image—we figure...
Quick Write

• Put everything on the floor except a pen or pencil
• No laptops, pda's, cell phones, etc.
• No notes, textbooks, etc.
• No discussions with your neighbors
• No wandering eyes
• Write for five minutes
Exercise 3

- DOM Exercise 3
  * Discuss what happens when the line of code in red runs, or executes:
Exercise 3

<form>
  <label for="animal">
    Enter an animal:
  </label>
  <input type="text" id="animal" name="animal" />
</form>

<script type="text/javascript">
  //other code here
  animal=document.getElementById("animal").value;
  //other code here
</script>
Exercise 3

• What is `document`?
  * `<body>`

• What does `getElementById` do?
  * Looks for an HTML element

• What does "animal" do?
  * Specifies the name of the id to find
Exercise 3

• What does .value mean?
  * Grabs the value entered by the user in the animals text box

• Explain animals = and what it does.
  * Assignment statement
  * Assigns the results of everything on the right hand side to animals.
Reminders

- Friday lecture is canceled
  - Undergraduate Research Symposium
    Noon-5pm
- Project 2B is due Wednesday before Noon