Module I: Data Organization

HTML

Learning Goals [for today + lab]
you should be able to

• use HTML to design networked, hierarchical and tabular structures in webpage content, and use analysis and debugging skills to correct and avoid html errors

Exercise: which result?

Exercise: which result?
**Summary of HTML tags used today**

<table>
<thead>
<tr>
<th>TAGS</th>
<th>USE</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;h3&gt;</code></td>
<td>third level heading</td>
</tr>
<tr>
<td><code>&lt;ul&gt;</code></td>
<td>unordered list</td>
</tr>
<tr>
<td><code>&lt;li&gt;</code></td>
<td>list item</td>
</tr>
<tr>
<td><code>&lt;br&gt;</code></td>
<td>line break</td>
</tr>
<tr>
<td><code>&lt;a href=&quot;...&quot;&gt; &lt;/a&gt;</code></td>
<td>anchor (link)</td>
</tr>
</tbody>
</table>

**Exercise: Jumblies in HTML**

- common question: how much space does `<br>` insert
  - between two lines of text?
  - before a `<ul>` tag?
  - as the second of two `<br>` tags?
- best way to find out is to experiment

**Exercise: Jumblies in HTML**

- original version
- condensed version
Exercise: Jumblies in HTML

• which generates the result above?
  A: 1 but not 2
  B: 2 but not 1
  C: both 1 and 2

Adding a hyperlink

• add anchor tags around the words “The Jumblies” to obtain the following:

  <a href="jumblies.html">The Jumblies</a>

Connecting with Computer Science

Module I: Data Organization

Names and Variables

Learning Goals

you should be able to

• explain how names convey properties and/or structure of data, with particular attention to names in computing environments such as domain names, file names, URL's or email addresses

• explain how variables are used to ease data management and to describe actions on data, and be able to use variables for these purposes in familiar contexts
Exercises

• here’s a URL:
  http://www.publicaffairs.ubc.ca/2009/09/01/ubc-this-is-your-first-year-class/

• which part of the URL is a domain name?

Exercises

• What is the value of the variable "US-funds", after
  the following sequence of variable assignments?

  
  exchange-rate = 1.5
  Canadian-funds = 10
  US-funds = exchange-rate * Canadian-funds

Exercises

• Draw a hierarchical diagram showing relationships
  between folders and files that can be inferred from
  the following URLs. (Hint: the root of the diagram is
  the folder called "ALUMNI").

  hkin.educ.ubc.ca/ALUMNI/Home.html
  hkin.educ.ubc.ca/ALUMNI/documents/OurPast.html
  hkin.educ.ubc.ca/ALUMNI/documents/sixty.htm
  hkin.educ.ubc.ca/ALUMNI/PDFs/2008 Grads.pdf

Exercises

• What is Marks[3]?

  An action that might be performed on this table is
  to add a new amount to someone's grade:


  What would Marks[3] be after this action?