CompSci 4 HTML Aug 30, 2007

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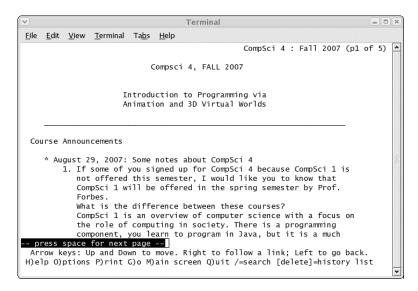
Browsers on the Web

- First browser called "WorldWideWeb"
 - Hypertext browser/editor
 - Created in 1990 by Tim Berners-Lee at CERN
 - 1991 available on internet
- Lynx
 - Textual browser, 1992, history
 - Lou Montulli, Charles Rezac, Michael Grobe

CompSci 4

- Last time
 - How to start a web page, copy files to Duke account
- Assignment 1 due Friday, Assignment 2 out
- Today's Classwork Learn HTML
 - Use laptop cart
 - bring laptop if can
 - Classwork not finished is homework, many classworks become homework!
- Start Alice next week
 - Read Chapter 1
 - Do reading quiz on blackboard by Tuesday 8:30am!
 - Multiple attempts

CompSci 4 Web page in Lynx



Other Browsers

- Mosaic
 - 1993, Univ of Illinois Urbana-Champaign
 - Last version in 1997
- Netscape
 - 1994 by Jim Clark and Marc Andreessen
 - Hired most of Mosaic Engineers and Montulli (lynx)
 - History (pdf)
- Internet Explorer
 - 1995, first version attached to Windows 95, not very popular
 - History (pdf)

URLS

- http://www.cs.duke.edu/courses/fall07/cps004/
- Uniform Resource Locator
- Address of location of a web site or other Internet service
- Organized first by protocol
 - http, mailto, ftp, file
- Organized next by domains
 - .com, .edu, .org, country (.it, .fr, .de)
- Organized finally by directory on specific machine

How do These Browsers view the same info?

- Standards
 - Html
 - Figure formats (gif, jpeg, tiff)
 - Scripts (javascript, cgi)
- Plug-ins
 - Program provided by companies that are run when specific file is downloaded

An HTML file

- Write HTML commands in a text file
 - use Notepad
 - save as .txt file
- File should have .html extension
- View file with browser
 - Save file and check often

HTML tags

- First tag "< >" says, "Begin Mode"
- Second tag "
 says "End Mode"
 - note the "/"
- Example
 - <title>Flavor of the Week </title> means
 - Begin title mode
 - "Flavor of the Week" is in title mode
 - End title
 - Can nest several modes

HTML –

Basic Page Structure

```
<html>
<head>
<head>
<title> Susan's Web Page </title>
</head>
<body bgcolor="white">
<center>
<hl> Susan's Web Page </hl>
</center>
I love to bake cookies and cakes! 
</body>
</html>

Susan's Web Page </hl>

Susan's Web Page </hl>

| Tove to bake cookies and cakes! 

<pr
```

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Address a http://www.cs.duke.edu/courses/spring05/c

HTML

- Some General HTML rules
 - For tags, case doesn't matter
 - <html> is equal to <HTML>
 - In the text, spaces don't matter (free format)
 -
br> starts a new line
- Headings
 - Use <h*n*> for heading size, the smaller *n*, the larger the heading
 - $< h1 > \dots < /h1 >$ is largest heading
 - $< h4 > \dots < /h4 >$ is minor heading

HTML

- Add links
-
 The Duke web page
- Italics or emphasis
 - -<i>> or
- Darker or bold use
 - or
- Text space exactly as typed
 - <</pre>

HTML – specifying colors

- Can be specified in different ways
- Standard colors, "white" or "red"
- Arbitrary colors, specify amount of red, blue and green involved (RGB)
- Uses base 16 arithmetic: 0, 1, ..., 9, a, b, ...f Red: ff0000 Green 00ff00 Blue 0000ff Yellow: ffff00 Gray 7f7f7f White fffffff Black 000000 Orange ff7f00 Purple c000e0 Can experiment! See html-color-codes.com

HTML – Tables and Images

cell 1 cell2

cell 3 cell4

```
• Tables – produces simple table
```

```
  cell 1 
  cell2  
   cell 3 
  cell 4
```

• Images – displays an image

```
<ima
 src=http://www.cs.duke.edu/~rodger/sh
 rfun.qif>
```

HTML - Lists

• Bulleted list (unordered list)

```
<111 >
   item in list 

    Ordered list

 <01>
   first item in list
```

second item in list

• Can nest arbitrarily deep – lists within lists

Frames – CompSci 4 web page

- 3 web pages for frames with two columns
 - The one below (the one that displays the page)
 - Links to an index and body page

```
<HTML>
  <TITLE>CompSci 4 : Fall 2006</TITLE>
 </HEAD>
 <FRAMESET COLS="22%, *" BORDER=0>
   <FRAME SRC="frameindex.html", name="list">
   <FRAME SRC="framebody.html", name="main">
 <noframes>
   <A HREF="frameindex.html"> no frames link to programs </A>
</html>
```

Classwork - Create a Web page

- Create an animal web page complete by Sept. 6
- Work in pairs
- Use notepad to create file with HTML
- Look at file with browser
- Copy file to your Duke OIT account
- View your file on the web