### Your Classmates by Year

#### 2. What year are you?

<table>
<thead>
<tr>
<th>Year</th>
<th>Response Percent</th>
<th>Response Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>freshman</td>
<td>21.7%</td>
<td>62</td>
</tr>
<tr>
<td>sophomore</td>
<td>30.8%</td>
<td>88</td>
</tr>
<tr>
<td>junior</td>
<td>25.9%</td>
<td>74</td>
</tr>
<tr>
<td>senior</td>
<td>17.5%</td>
<td>50</td>
</tr>
<tr>
<td>grad student</td>
<td>4.2%</td>
<td>12</td>
</tr>
</tbody>
</table>

answered question: 286
## Your Classmates by Gender

<table>
<thead>
<tr>
<th>Gender</th>
<th>Percentage</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>29%</td>
<td>79</td>
</tr>
<tr>
<td>Male</td>
<td>71%</td>
<td>194</td>
</tr>
</tbody>
</table>
# Your Classmates’ Comfort Levels

1. Which category do you feel you fall into?

<table>
<thead>
<tr>
<th>Category</th>
<th>Response Percent</th>
<th>Response Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>I'm among &quot;those less comfortable&quot;</td>
<td>30.8%</td>
<td>88</td>
</tr>
<tr>
<td>I'm among &quot;those more comfortable&quot;</td>
<td>19.6%</td>
<td>56</td>
</tr>
<tr>
<td>I'm somewhere in between</td>
<td>49.7%</td>
<td>142</td>
</tr>
</tbody>
</table>

answered question 296
Your Classmates’ Prior Experience

4. How much programming experience did you have before CS 50?

<table>
<thead>
<tr>
<th>Experience</th>
<th>Response Percent</th>
<th>Response Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>43.4%</td>
<td>124</td>
</tr>
<tr>
<td>a little</td>
<td>46.5%</td>
<td>133</td>
</tr>
<tr>
<td>a lot</td>
<td>10.1%</td>
<td>29</td>
</tr>
</tbody>
</table>

answered question 286
## Time Spent on Problem Sets

23. Roughly how much time would you say you've spent on recent problem sets (say, ps2: Crypto onward)?

<table>
<thead>
<tr>
<th>Time Range</th>
<th>Response Percent</th>
<th>Response Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5 hours</td>
<td>4.0%</td>
<td>11</td>
</tr>
<tr>
<td>5 - 10 hours</td>
<td>38.5%</td>
<td>106</td>
</tr>
<tr>
<td>10 - 15 hours</td>
<td>33.1%</td>
<td>91</td>
</tr>
<tr>
<td>15 - 20 hours</td>
<td>17.5%</td>
<td>40</td>
</tr>
<tr>
<td>20+ hours</td>
<td>6.9%</td>
<td>19</td>
</tr>
</tbody>
</table>

answered question 275
Oh, the Places You’ll Go!

:: **CS 51**: Introduction to Computer Science II  
   sneak preview on Friday, 7 December 2007
   :: Abstraction and design in computation. Topics include: Functional and object-oriented styles of programming; software engineering in the small; implementation of a language interpreter. Goal: understanding how to design large programs to make them readable, maintainable, efficient, and elegant. Exercises in LISP (Scheme) and C++.

:: **CS 61**: Systems Programming and Machine Organization  
   sneak preview on Monday, 10 December 2007
   :: Fundamentals of computer systems programming, machine organization, and performance tuning. This course provides a solid background in systems programming and a deep understanding of low-level machine organization and design. Topics include C and assembly language programming, program optimization, memory hierarchy and caching, virtual memory and dynamic memory management, concurrency, threads, and synchronization.
WANTED

TFs
Graders
Coders

Image from http://members.memlane.com/gromboug/P16MvSig.htm.
The year was 1995...
Recommended Reading

- **TCP/IP Tutorial**
  http://www.w3schools.com/tcip/

- **How Web Servers Work**
  http://computer.howstuffworks.com/web-server.htm

- **XHTML Tutorial**
  http://www.w3schools.com/xhtml/

- **CSS Tutorial**
  http://www.w3schools.com/css/

- **PHP Tutorial**
  http://www.w3schools.com/php/

- **SQL Tutorial**
  http://www.w3schools.com/sql/
“RTFM”

:: PHP Manual

:: MySQL 5.0 Reference Manual
   http://dev.mysql.com/doc/refman/5.0/en/
Use the Bulletin Board!

<table>
<thead>
<tr>
<th>Forum</th>
<th>Topics</th>
<th>Posts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Announcements</strong></td>
<td>19</td>
<td>80</td>
</tr>
<tr>
<td>Official announcements by the staff. You'll find that you can reply to our announcements but not initiate them yourself.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Final Project Ideas</strong></td>
<td>44</td>
<td>90</td>
</tr>
<tr>
<td>Have an idea for your final project that you'd like to bounce off of others? Have an idea for a final project that you'd like to see someone else implement? Post it here! Try to give your post a descriptive title (e.g., &quot;An AIM Bot that Tells You What’s For Lunch&quot;).</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td>78</td>
<td>268</td>
</tr>
<tr>
<td>For posts that don’t seem to belong in the other forums!</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Problem Sets</strong></td>
<td>225</td>
<td>872</td>
</tr>
<tr>
<td>For Q&amp;A about problem sets. <strong>Do NOT post your work in this public forum</strong>; speak privately with the staff instead.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Problem Sets (Hacker Editions)</strong></td>
<td>58</td>
<td>223</td>
</tr>
<tr>
<td>For Q&amp;A about Hacker Editions of problem sets. <strong>Do NOT post your work in this public forum</strong>; speak privately with the staff instead.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Technical Support</strong></td>
<td>36</td>
<td>113</td>
</tr>
<tr>
<td>For questions about your FAS account, lab computers, your own computer, this bulletin board, the VTR, etc.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
TCP/IP

Mac or PC computer that was originally connected to the cable or DSL modem

To Power Adapter

Network cable (to computer)

Existing networking cable (came with modem)
HTTP
XHTML

<!DOCTYPE html
PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>hello, world</title>
</head>
<body>
hello, world
</body>
</html>
<!DOCTYPE html
    PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <link href="styles.css" rel="stylesheet" type="text/css" />
        <title>hello, world</title>
    </head>
    <body>
        hello, world
    </body>
</html>
Validation

http://validator.w3.org/
Forms

:: Text Fields
   <input name="email" type="text" /> 

:: Password Fields
   <input name="password" type="password" /> 

:: Checkboxes
   <input name="save" type="checkbox" /> 

:: Radio Buttons
   <input name="gender" type="radio" value="F" /> 
   <input name="gender" type="radio" value="M" /> 

:: Drop-Down Menus
   <select name="dorm">
      <option value=""></option>
      <option value="Matthews"></option>
      <option value="Weld"></option>
   </select>
Mispellings

$dictionary[$word] = TRUE;
Some Predefined Variables

::)$_GET$
::$_POST$
SQL

- SELECT
- INSERT
- UPDATE
- DELETE