Welcome to CS 449!

Instructor: Daniel Petrov
An introduction and a request
Introduction

Daniel Petrov
- Bulgarian
- PhD Student
- Research Interests
- Advisor
- Background
Introduction (cont.)

Students

• Name
• Freshman/Sophomore/Junior/Senior
• Major
Some Rules

• Mobile phones – silent mode
• Ask the Instructor
• Food & Drinks in the classroom
• Ask the TA
The syllabus

http://people.cs.pitt.edu/~dpetrov/
1. What is system programming?
2. Why is learning system programming important?
3. The anatomy of a program.
4. Why learn C?
The Hello World Program

#include <stdio.h>

int main()
{
    printf("Hello world!\n");
    return 0;
}
Data Types

<table>
<thead>
<tr>
<th>Integers</th>
<th>Reals</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>short</td>
<td>float</td>
<td>char</td>
</tr>
<tr>
<td>int</td>
<td>double</td>
<td></td>
</tr>
<tr>
<td>long</td>
<td>long double</td>
<td></td>
</tr>
<tr>
<td>long long</td>
<td>long double</td>
<td></td>
</tr>
</tbody>
</table>

- Signed vs. unsigned
- Pointers
- The sizeof() operator