Welcome to CS 368!

Introductions, Overview, Course Mechanics, Resources, etc.
Introductions
Section 1: Introduction to Perl

Tim Cartwright

Section 2: Advanced Python

Nick LeRoy
Section 1: Introduction to Perl

http://pages.cs.wisc.edu/~cs368-1/

Section 2: Advanced Python

http://pages.cs.wisc.edu/~cs368-2/
Brief Overview
Course Objectives

• Write basic code in Perl

• Solve real-world problems with scripting languages

• Learn *about* scripting languages (Perl, Python, Ruby, PHP, JavaScript, ActionScript, …)
Scripting

• Fast development
• Easy to understand and change
• Abstracts over low-level details
• Pervasive

• Examples:
  – quick computation
  – data manipulation
  – glue
  – e.g., SpamAssassin, Twitter (Ruby on Rails)
Perl

- Practical Extraction and Report Language
  *(Pathologically Eclectic Rubbish Lister?)*

- Introduced 1987
  - Perl 5.8: 2002–2008  *version used in class!*
  - ...
  - Perl 5.14: 2011

- Widely available

- Great for processing text

- Huge number of independent libraries (CPAN)
Course Philosophy

Learn a new skill

Learn by doing

Learn to fish
Course Mechanics
Homework and Grading

• Homework
  – every day (except last), 15 total
  – short coding assignment
  – due by 11:10 a.m. of next class
  – no late assignments accepted *at all*

• Grading
  – credit/no credit
  – each assignment given 0, 1, or 2 points
  – need 20 points for credit
# Homework Points

<table>
<thead>
<tr>
<th>Pts</th>
<th>Reason</th>
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| 2   | • turned in on time, AND  
     | • code runs, AND  
     | • solution is correct or nearly so, AND  
     | • demonstrates real effort |
| 1   | • turned in on time, AND  
     | • partial solution, may not actually run, AND  
     | • demonstrates at least some effort |
| 0   | • late, OR  
     | • is plagiarized, OR  
     | • does not demonstrate any real effort |
Mailing List

compsci368-1-su11-hdd@lists.wisc.edu

- Goes to @wisc.edu account
- Check spam filters
Office Hours

Computer Sciences 4265 (Tim’s office)

Days and times: Doodle poll today!

Other times available by appointment (email)
Course Books

- *Learning Perl* (4th Ed.)
- *Programming Perl* (3rd Ed.)
- Available FREE online via MadCat
- Not in the UBS textbook area
- *If* you buy them, consider newest editions
How to Run Perl
Running Perl

• Unix/Linux
  – perl filename
  – chmod 0755 filename
  ./filename

• Mac OS X
  – use Terminal, same as above

• Windows
  – download ActiveState Perl
  – not officially supported in the course
Homework for Day 1

- Go to section website
- Find syllabus
- Find and read homework
- Run the homework script on your own machine and print the output
- Turn in output tomorrow
http://pages.cs.wisc.edu/~cs368-1/