Welcome to CS 368!

Introductions, Overview, Course Mechanics, Resources, etc.

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

Instructors

- Staff from CS's Condor Project

- Tim Cartwright
- Alan De Smet
- Nick LeRoy

Course Objectives

- Write basic code in Perl

- Learn about scripting languages (Python, Ruby, PHP, JavaScript, ActionScript, …)

- Solve real-world problems using scripting languages

Why Scripting?

- Fast development
- Easy to understand and change
- Abstracts over low-level details
- Pervasive
- Examples:
  - data munging for science, business, …
  - glue between other, incompatible apps
  - SpamAssassin
  - Twitter (Ruby on Rails)

Course Philosophy

- Real-world application

- Code a little every day

- Learn to fish

Homework/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

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Homework Points

Pts	Reason
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	• not turned in on time, OR • is plagiarized, OR • does not demonstrate any real effort

Office Hours

- Wednesdays, 11 a.m. – 12 p.m.
- CS 4259 (corner conference room)
- **except:** 29 July in CS 4331

- by appointment

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, get newest editions

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Course Resources

- **`http://pages.cs.wisc.edu/~cs368-1/`**
  – syllabus
  – links to homework (added daily)
  – links to lots of programming resources

- Perl resources
  – books
  – www.perl.com (documentation link)
  – perldoc.perl.org
  – man perl, perlsyn, perlfunc, …

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

Perl Scripts

```perl
#!/usr/bin/perl

use strict;
use warnings;

# comments!
code starts here
```

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Homework for Day 1

- Go to course website

- Find syllabus

- Find and read homework

- Run the homework script on your own machine and print the output

- Turn in output tomorrow

Cartwright, De Smet, LeRoy