

CSCI 1111

Lab 0 – January 12th, 2011
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Preliminaries

- Office hours
 - What works for you?
- Email (jcmarsh at gwmail dot gwu dot edu)
 - Easiest way to contact me
 - Sliding response time
 - First response: 4 hours (assuming I'm awake)
 - Second response: 8 hours
 - Third response: 16 hours
 - Forth response: 32 hours
 - No guarantee of response the night of due date.

More Preliminaries

- Special Accommodations
 - Let Prof. Simha know!
 - <http://gwired.gwu.edu/dss/>
- Cheating
 - I will be actively looking for violations of honor code.

Labs

- Mandatory
 - Attendance
- Group work
- Robots
 - Must leave here

Basics

- `hobbes.seas.gwu.edu`
 - Unix server
 - Log in with seas username and password
 - Command Line vs. Graphical User Interface
 - first command: “bash”
 - Has java
 - files on T: drive
 - “Dumb” terminal

User Interface

- GUI
 - What you are used to
 - What you see is what you get (all you get)
- Command Line
 - Old school
 - Why?
 - POWERFUL!
 - Secret: “Tab” key auto-completion
 - Another secret: Up arrow for previous commands

Commands

- List files
 - Windows: dir Unix: ls
- Change directory (file)
 - Windows: cd (except drives) Unix: cd
 - Up director: cd ..
- Make folder
 - Windows: mkdir Unix: mkdir
- Remove file
 - Windows: del (rmdir) Unix: rm (rm -r)
- Edit file
 - Windows: edit (filename) Unix: pico (filename)

Important

- Java

- hobbes has java – compile and run
- no GUI!
- Won't run graphical applications!

- Dumb Terminal

- Your laptop becomes just a keyboard and monitor for hobbes.
- Have to transfer files manually.

Laptop Environment

- Windows
 - Install JDK (SE, not just JRE)
 - Set PATH and CLASSPATH environment variables
 - Install client to move files to/from hobbes
 - ssh (putty)
 - sftp and scp will also work
 - Run -> cmd

Laptop Environment

- Mac
 - Terminal
 - Check for Java and Java compiler
 - “java” and “javac” from terminal
 - Very similar to Unix
 - Transfer using “fetch” or “sftp”

Pico

- Simple text editor
- “pico filename.extension”
 - pico HelloWorld.java
- commands displayed across bottom
 - Ctrl + O
 - Ctrl + X

Directories

- AKA Folders
- Top level: CSCI1111
- Make new folders for each module
 - mkdir CSCI1111
 - cd CSCI1111
 - mkdir module01
 - ls
 - cd ..

Acronyms (I'm so sorry)

- JDK: Java Developer's Kit
- SE: Standard Edition
- JRE: Java Runtime Environment
- GUI: Graphical User Interface
- CLI: Command Line Interface
- BASH: Bourne Again Shell
- SSH: Secure Shell
- SFTP: Secure File Transfer Protocol
- SCP: Secure CoPy

Next Week

- Robots!
 - Are you excited? Because I'm excited!
- Yet another HelloWorld program
- Make sure to complete the survey!

Tips to Passing

- Start assignments early.
- Seriously, start early.
- Material builds
 - don't miss classes
- Learning a new way of thinking
 - Takes practice!
- **START ASSIGNMENTS EARLY!!!**