

CS Club (10/06/2011)

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1 Programming problem

ASCII ART!!! The following is self-explanatory.

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2 Linux Group: Administrivia

I need about 3-4 dedicated linux students to help with running this group. If you are interested in linux and have time to help me run the group, email me (yliow@ccis.edu with subject "linux group")

For students wanting to learn Linux: Here's a possible schedule. This is *only tentative*.

- Meeting 1: Using VMware Player and the Fedora 14 virtual machine
- Meeting 2: Introduction to Unix/Linux
- Meeting 3: File transfer. Get user account at gandalf.
- Meeting 4: g++
- Meeting 5: xemacs
- Meeting 6: make
- Meeting 7: latex
- Etc.

It's probably a good idea to mix in some Python programming.

For students interesting in running the Linux group:

- Review the approximate schedule above and make recommendations.
- Learn to use sftp. Write a tutorial for sftp.
- sftp gui client shootout: I need a recommendation of a good sftp GUI. Make a recommendation in a week.

3 Linux Group: Meeting 1

Meeting 1: Using VMware Player and the Fedora 14 virtual machine

This is an opportunity for everyone to go over the following tutorial carefully:

<https://bilbo.ccis.edu/Members/yliow/tutorials/vmwareplayer.pdf>

CS club officers: You might want to get those with no VMware player or Fedora experience to go over the tutorial with someone who can stick around and answer their questions.

Example activities for Meeting 1:

- Exercise. Change your passwords!!!
- Exercise. Google for free Fedora games. Install one and run it.
- Exercise. Write a simple C++ program, compile it using g++, and run it.
- Exercise. Update your VMware Player and reinstall VMware Tools.
- Exercise. Create a directory structure for all your classes.
- Exercise. Power down and power up your virtual machine.
- Exercise. Modify the permission of file(s).
- Exercise. How do you make a copy of a directory?
- Exercise. Drag-and-drop files between your host and guest.
- Exercise. Learn one shortcut for your editor; repeat it 20 times right now.

Extra:

- Exercise: I have a file `abc` without a file extension. What linux command should I use to figure out what kind of file (`abc.jpg`? `abc.txt`?, etc.) I have?
- Exercise: On many download sites, you see md5 checksum. What's that? How do you verify that the md5 sum of your file is correct?

4 Web Programming Group

After HTML, you are assumed to have some programming background. We'll be using the Fedora 14 virtual machine.

Dr Graham Higgs has a group of students doing some student research on "Emotion" and wish to have a simple web application for collecting survey results. We'll use that as a project for this group. I think this project counts as a community project for the CS club.

You won't be an expert on web development, but you will have a basic understanding to build on.

- HTML
- Web server
- MySQL
- Python