

Week 1

Introduction to Linux

03 October 2018

CS 35L Lab 4

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Reminders

- Assignment #1 is Due October 6 by 11:55pm
 - ◆ If you do not have CCLE access email your answer files to me
 - jrotman@ucla.edu
- If you are still unenrolled please continue to list your name in the notebook being passed around
- There is a Piazza for this course!
 - ◆ Sorry I forgot to mention this Monday
 - ◆ [Can be found here](#)
- You do **not** need to record keystrokes for the **lab** section of assignment #1

Questions?

Wh- Commands

→ Whatis

- ◆ Returns the name section of the man page for a command
- ◆ Equivalent to `man -f`

→ Whereis

- ◆ Locates the binary, source, and manual pages for a command

Extra Linux Info

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 - **Kernel:** the core of an OS
 - Allocates time and memory to programs
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 - There are many distributions of Linux
 - These mostly vary in what software is included with the OS

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- ◆ Linux is open-source
 - The software is openly distributed to be worked on and used

Additional Terms

→ Shell

- ◆ The interface between the user and the kernel
- ◆ Interprets commands
- ◆ Causes commands to be carried out
- ◆ CLI is a type of shell

→ Programs

Which Linux Distribution?

→ Ubuntu

- ◆ The most popular
- ◆ Frequently updated
- ◆ If you aren't using the seasnet servers, ubuntu is recommended

How to Use Ubuntu?

Multiple Options

- Use a virtual machine
- Boot from a USB flash drive
- Install as your primary OS

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- ◆ It allows you to run multiple operating systems on the same machine
 - AKA Ubuntu in our case

Virtual Machine

→ What will you need?

- ◆ Either VirtualBox or VMware
 - I recommend VirtualBox
 - <https://www.virtualbox.org/>
- ◆ The .iso file for Ubuntu
 - <https://www.ubuntu.com/>
 - Downloading ubuntu desktop will begin download of the .iso file
- ◆ Space on your computer
 - The virtual machine will still need dedicated resources from your computer

USB Flash Drive

→ You can write the .iso file to a USB

◆ MacOS

- <https://tutorials.ubuntu.com/tutorial/tutorial-create-a-usb-stick-on-macos#0>

◆ Windows

- <https://tutorials.ubuntu.com/tutorial/tutorial-create-a-usb-stick-on-windows#0>

→ From this USB you can boot your computer with Ubuntu

◆ Make sure you select Try Ubuntu if you don't want to replace your OS

Install Ubuntu

- You can install Ubuntu as your regular OS
 - ◆ I don't necessarily recommend it unless you wanted to anyway
- Alternatively, you could Dual-Boot
 - ◆ MacOS does include Bootcamp