Helpful Links

Class Website : https://web.cs.ucla.edu/classes/fall22/cs35L/index.html

Notes

- CS 35L (Fall22) Teaching Notes by Joseph Zhou
- CS35L Fall22 Students Shared Notes Password: ulZf
- Notes by Nina Wang
- Shout out to Vincent Lin for his amazing notes that were super helpful!

Week 0, intro to linux

- Linux file system in 100 seconds (Fireship video, YouTube): https://www.youtube.com/watch?v=42iQKuQodW4
- The Shell Part 1 (Dartmouth CS50 notes): https://www.cs.dartmouth.edu/~campbell/cs50/shell.html
- The Shell Part 2 (Dartmouth CS50 notes): https://www.cs.dartmouth.edu/~campbell/cs50/shellcontinued.html

Week 1, bash scripting

- Shell Programming (Dartmouth CS50 notes, a little more in-depth than we will go, shows some good examples of shell variables and built-ins): https://www.cs.dartmouth.edu/~campbell/cs50/programming.html
- Permissions: https://www.linuxfoundation.org/blog/blog/classic-sysadmin-understanding-linux-file-permissions
- Regex builder and tester: https://regex101.com

Week 2, python, lisp, and emacs (yay)

- **Emacs/Lisp**
  - Emacs, short video, can watch whole video if you want (Fireship video, YouTube): https://youtu.be/8PhdfcX9tG0?t=127
  - Emacs Lisp (the main lisp dialect we will be using for class): https://github.com/chrisdone/elisp-guide#programming-in-emacs-lisp
  - Emacs Lisp Intro **or** C-h I and scroll to Lisp while in emacs itself: https://www.emacswiki.org/emacs/EmacsLispIntro
  - Lisp Slides from discussion: https://docs.google.com/presentation/d/1dfF-wAONJpPsknvDAizQEuz84TQ9nASUFcnwoQW3JMI/edit?usp=sharing
- **Python**
  - argparse tutorial: https://realpython.com/command-line-interfaces-python-argparse/

Week 3, React and JS

- JavaScript Scavenger Hunt
- **Internet Protocols**
  - “Network Protocols” by Destroy All Software: https://www.destroyallsoftware.com/compendium/network-protocols?share_key=97d3ba4c24d21147
  - “Introduction to the server side”, an article about HTTP, and server and client-side programming by Mozilla: https://developer.mozilla.org/en-US/docs/Learn/Server-side/First_steps/Introduction

Week 4, Regex and Midterm Review

- **Regex**
  - Regex101, helpful for testing regex: https://regex101.com
  - Regex Cheat Sheet: https://www.rexegg.com/regex-quickstart.html
  - Regex Kahoot
- **Midterm Review**
  - Midterm Regex Review: https://docs.google.com/presentation/d/1e6pJZCs9pjP7i2pLOd0Gtfcs4Htjjt4pOkX41l2jMeo/edit?usp=sharing
  - Practice Midterm : https://docs.google.com/document/d/1EF_eSMvC9FGT4jpPBThmuVFQX_sWmpC1kroiF03SDok/edit?usp=sharing

Week 5&6, Git and Change Management

- Git in 100 Seconds (Fireship video): https://www.youtube.com/watch?v=hwP7WQkmECE
- Git Cheat Sheet: https://education.github.com/git-cheat-sheet-education.pdf
- Nice intro guide to using Git (I still reference this sometimes): https://www.andrew.cmu.edu/course/15-440-s12/applications/labs/lab2/git.html

Week 7, Low-Level Programming

- Makefile Guide: https://web.stanford.edu/class/archive/cs/cs107/cs107.1174/guide_make.html
- The C Programming Language 2nd Edition, K&R (***the*** book): https://kremlin.cc/k&r.pdf
- Assignment 5: Low Level Refactoring Slides: https://docs.google.com/presentation/d/1HnIAauz2mZ0vLWRMWoJaF3F5UCtC-OFvEOFB8s9Te3w/edit#slide=id.p
- Low-Level Refactoring Tutorial: https://github.com/ethansaurusrex/CS35L-Low-Level-Refactoring-Tutorial

Week 8, Git Internals/Topological Sorting

- Assignment 6: Git Repository Organization Slides: https://docs.google.com/presentation/d/1u1LCKfpk9S_XWE_n1UFRBZ0sKwUu0GszBcmFGJSp090/edit#slide=id.ga598d6b8e9_1_0
- What is “Plumbing” and “Porcelain”?: https://git-scm.com/book/en/v2/Git-Internals-Plumbing-and-Porcelain
- Git’s own guide to Git Internals: https://git-scm.com/book/en/v2/Git-Internals-Git-Objects

Final Review

- Final Review: https://docs.google.com/document/d/1yCrDlrRW3K9Z8U4qJlFsDsjMEXSzwVtLxQ07ZSq7Z1A/edit?usp=sharing

The Missing Semester

- MIT (git portion will be a great reference later in the quarter): https://missing.csail.mit.edu/