Lycaeum notes (Batch 6)

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Contents

1 [2018-07-03 Tue]

- Install a Linux on your laptop.

  - Either use a native install (or dual boot)
  - Or use a VM.

- Install `gtypist`

  - `sudo apt-get install gtypist`
  - Practice for 20 minutes a day

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- Homework for this week

  - First 4 chapters atleast (5 if possible) of UNIX programming environment

1.1 Useful links

- Practicing programming - `https://projecteuler.net`

2 [2018-07-06 Fri]

2.1 UNIX intro

2.1.1 Common commands

- pwd

- man, apropos

- file

- cp, mv, ln

- find

- rm

- which

- pwd, cd, mkdir, rm

- chmod

2.1.2 Pipes

- cat

- grep

- sort

- tr

- wc

3 [2018-07-17 Tue]

3.1 Git book notes https://git-scm.com/book/en/v2

- Getting Started

  - ☐ About Version Control
  - ☐ A Short History of Git
  - ☒ Git Basics
  - ☒ The Command Line
  - ☐ Installing Git
  - ☒ First-Time Git Setup
  - ☐ Getting Help
  - ☐ Summary

- Git Basics

  - ☒ Getting a Git Repository
  - ☒ Recording Changes to the Repository
  - ☒ Viewing the Commit History
  - ☒ Undoing Things
  - ☒ Working with Remotes
  - ☒ Tagging
  - ☒ Git Aliases
  - ☒ Summary

- Git Branching

  - ☒ Branches in a Nutshell
  - ☒ Basic Branching and Merging
  - ☒ Branch Management
  - ☒ Branching Workflows
  - ☒ Remote Branches
  - ☐ Rebasing
  - ☒ Summary

- Git on the Server

- ☒ The Protocols
- ☐ Getting Git on a Server
- ☒ Generating Your SSH Public Key
- ☐ Setting Up the Server
- ☐ Git Daemon
- ☐ Smart HTTP
- ☐ GitWeb
- ☐ GitLab
- ☐ Third Party Hosted Options
- ☐ Summary
- Github

4 *[2018-07-24 Tue]*

- `https://learnpythonthehardway.org/python3/`

5 General recommendations

5.1 Good books

- How to read a book - Mortimer Adler

- Deep Work - Cal Newport

- The pragmatic programmer - General programming skills and stuff

- The passionate programmer (Chad Fowler) - Soft skills useful for a programmer

- The practice of Programming - Kernighan and Pike (The elements of programming style)

- Programming pearls - Jon Bentley

- Hackers - Heroes of the computer revolution

5.2 Practices

- Read one technical book every month

- Read one non-tech book every 3 months

- Always be working on one MOOC. (edx, khan academy, coursera, udacity, udemy etc.)

    - Learning how to learn
    - Programming languages - Univ. of Washington
    - Data structures (I and II) - Robert Sedgewick
    - Build a computer from first principles
    - Realtime Bluetooth Networks