LING 300 - Topics in Linguistics:
Introduction to Programming and Text Processing for Linguists

Week 2

Command-line Text Processing
Notes from Assignment 1

- Careful with assignment naming so I know what to look at (just edit the existing file)
- Don’t remove the “>>>” or “YOUR ANSWER HERE” stuff
- Softlinks vs. Hardlinks

https://medium.com/@mirandarevans
Important Concepts This Week

- Unix operates line-by-line
- You’re creating a data pipeline, and ordering matters
- Imagine starting with a big piece of clay (all the lines) and bit by bit carving away and transforming it
- One liners! These techniques are very powerful for getting a quick, high-level picture of what you’re working with
Unix Philosophy

- One program does one thing

Write programs that do one thing and do it well.
Write programs to work together.
Write programs to handle text streams, because that is a universal interface.

-Doug McIlroy (inventor of pipes)

https://homepage.cs.uri.edu/~thenry/resources/unix_art/philosophychapter.html
Abstraction
(we can trust programs and functions to do their thing)

We don’t need to worry about how something is sorted, we just trust that it will be properly done!

Decomposition
(big problems can be solved by breaking them into small steps)

For each problem, think about how to decompose it into small things we can do