

Slide 1

Administrivia

- Reminder: “Not accepted past” date for Homeworks 1 through 7 is today at 5pm.
- Final exam period is December 15 at 8:30am. We will use this time for project presentations. At 10 minutes each, we won't need the full three hours. Start at 9:30am?

Project-related material (reports and “deliverables” due at exam time. Not accepted late.
- Homework 8 due date extended to exam time. Not accepted late.
- Information about office hours this week and next coming by e-mail soon.

Slide 2

Course Wrap-Up — What I Hope You Got From This Class (Details)

- More things in your “bag of tricks” (see later slide).
- Practice in reading man pages and otherwise learning more.
- Exposure to traditional tools you might need, or want, to use sometime. You may not remember details, but I hope you will be less intimidated.

Slide 3

Course Wrap-Up — What I Hope You Got From This Class (Big Picture)

- Exposure to a different operating system / user interface paradigm — many small programs that work together, information kept in text files, emphasis on being expert-friendly and scriptable, etc.

“A tour of UnixWorld / TextWorld.”

“More than one way to do things.”

- Encouragement to find out how to use all your tools as intelligently as possible.

I like the old tools because I know how to make them work together. But it's worth noting that many “modern” tools (GUI-based programs, graphical file managers, etc.) have their own way of working together — common set of keybindings, cut-and-paste metaphor, drag-and-drop, multiple selections, etc. Compare and contrast!

Slide 4

Course Wrap-Up — Topics

- Shell features — command history, redirecting input and output, scripting features (if/then/else and loops).
- Pipes.
- Filter programs (`awk`, `sed`, `grep`, etc.).
- Text editors.
- \LaTeX .
- `make` and `makefiles`.
- Regular expressions (for text editing, `grep`, etc.).
- Miscellaneous other text-mode tools — `mail`, `screen`, `games`, etc., etc.
- A little about X, installing software, and CGI scripting.

Slide 5

From First Lecture — Shameless Evangelism/Ranting

- “UNIX is obsolete — history goes back to 1969!”
You can fix a lot of bugs in 40 years, and the odds are better that what you learn will still be useful years from now.
- “It’s not user-friendly!”
Sure it is; it’s just choosy about its friends. Designed by programmers for programmers — “expert-friendly” as opposed to “novice-friendly.”
- “Everyone knows GUIs are better!”
For some things and some people, maybe so. But which is more expressive, pointing and gesturing or speech?
- (You don’t have to agree with me! but in theory now you have more information on which to base on opinion.)

Slide 6

From First Lecture — The UNIX Philosophy

- As stated by one of its developers (Doug McIlroy):
“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.”
- There’s more, but the emphasis is on (1) providing a set of lightweight tools that can be put together to do interesting things, and (2) providing choices to users (sometimes almost too many!)

Minute Essay

- How did the course compare to your expectations/goals? Did you learn what you hoped to learn?

Slide 7