

- Print out these pages. If you do not have access to a printer, please contact the instructor.
- Handwrite your answers on the pages you print out. Do not type them.
  - **I will not accept just the answers written on a sheet of paper.**
  - **I will not accept typed output.**
- If you have a flatbed scanner, please scan the images into a .pdf file.
  - PDF files are much better than individual jpg files.
  - If you don't have a flatbed scanner, please use a "camscanner" app on your phone to produce a single .pdf file for the assignment.
- The video notes are intended as **learning aids** and not grading exercises.
- Watch the videos and fill these pages out as you go.
- I will only spot check a few questions and look for completeness. There are only a few ways you can lose points:
  - Skip a question or give a frivolous answer.
  - Just copy some answer you found on the internet. Instead, use your own words.
  - Cheat. Don't use another student's answers, although it is fine (and encouraged) if you talk over specific questions with another student. Just be sure to give your own answer and don't copy another student. Also, don't use notes from another semester; I can be sneaky.

If you don't know an answer try to figure it out. Instead of an answer, write about what you do understand or why you are confused. Maybe put a big \* or ? in the margin next to the question.

## Unit 01\_03 — Videos and Notes

Note: In some videos I talk about class on Tuesdays and/or Thursdays. This semester, translate Tuesday to mean Wednesday.

Or, in Linux terms,

```
sed s/Tuesday/Wednesday/g
```

Hopefully, that will be funny later in the course.

1. How are you filling out these notes?

- ☐ I am writing the answers on a sheet of notebook paper which I will turn in (This is a wrong answer.)

- ☐ I am typing the answers (This is also a wrong answer)
  - ☐ I am hand-writing the notes on printed copies of the .pdf file from the handouts. (This is the correct answer.)
2. What is the url of the github repository where you can find the notes?
3. In your own words, explain at least two ways you can lose points on these notes.
4. What are the exams based on?
- ☐ Only these written notes
  - ☐ Only the videos
  - ☐ Only the handouts
  - ☐ Only the homework
  - ☐ The notes, videos, handouts, and homework

## **Unit 01\_05 — Overview and History**

### **Video A**

1. In your own words, what is the kernel of the operating system? (You may look up kernel on the Internet, but I want you to use your own words. I almost never want you to just copy something that you find in the notes or online.)
2. What is the Interface?
3. What is the main interface we will be leaning this semester?
4. In what decade was Unix developed?

- ☐ 1950s
- ☐ 1960s
- ☐ 1970s
- ☐ 1980s

5. Who was Linus Torvalds?

6. What are at least two tasks performed by the Operating System?

7. List two things from the development of Unix in the 1970s that still influence us today in this course, not counting the development of Unix itself.

- ☐
- ☐

### **Video B**

8. In your own words, what does "parsimonious" mean?

9. An old saying is that "Unix is parcimonious." Give an example that illustrates this.

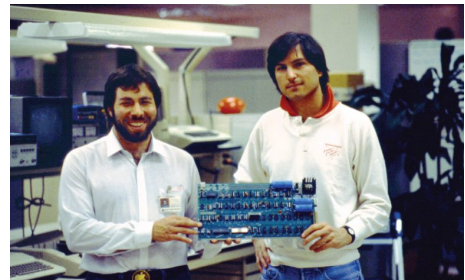
10. Why did teletype machines create an incentive for the developers of Unix to keep commands and output short.

11. What is a dumb terminal? Why isn't a dumb terminal considered a computer?

12. What is a shell?
13. What is Bash?
14. About 10 years ago the announcement was made that the majority of the world's computers now run Linux. It is still a true statement. It sounds counter-intuitive because most people run Windows or Mac OS on their desktops and laptops; Linux laptop and desktop users are fairly rare. Many servers and supercomputers run Linux, however, there is a relatively small number of these compared to desktop units. So why is it accurate to say that more computers run Linux than any other operating system? (Hint: The answer is probably in your pocket, unless you have an iPhone.)

## Unit 01\_10 — woz

15. In the CSMP server room we generally name the servers for people important to the history of computers. Where did the name "woz" come from? (This is an example of a question that isn't in the video. You might or might need to search the Internet for an answer.)



16. What operating system do you plan to use on your personal laptop or desktop this semester? (Not including the woz server)
- ☐ Windows 10
  - ☐ Windows, but not 10

- ☐ Mac OS
- ☐ Linux

17. How do you expect to connect to Woz?

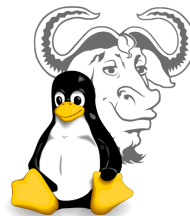
- ☐ Bitvise
- ☐ putty
- ☐ ssh in a terminal
- ☐ other (Please specify):

Note: There are no notes on the optional videos, but you should watch the video corresponding to the method you expect to use to connect.

Please try to connect before class starts. I will send out an email saying what the password is. It may also be in the optional videos.

18. Tux the penguin is the Mascot of Linux. There is a picture of Tux at the end of each set of notes. What is the significance of the gnu sitting behind Tux in the picture at the bottom of the page?

19. Do you have any questions at this point? (No need to answer if you don't.)



Tux with a gnu