Unit 02_010 — Basic Commands

1. What does each of the following commands do in Linux?

   ○ `date`

   ○ `cal`

   ○ `clear`

   ○ `date`

   ○ `pwd` *Shows the Present Working Directory.* (Prefilled because we have not covered directories yet)

   ○ `echo`

2. What name would your third grade teacher call "single quote marks?"

3. What are arguments? Do arguments always have to be put in quote marks?

4. What is a flag? What is the difference between a flag and an option?

5. What distribution is installed on woz? Is it a `.deb` or `.rpm` type of distribution?

Unit 02_020 — More Commands

6. Strings must always be enclosed in either single quotes or double quotes.

   ○ TRUE

   ○ FALSE

7. What is the difference between single quotes and double quotes?

8. For each of the following, write "valid" in the blank if the string is a valid bash string. Write "invalid" if it is not a valid bash string. If the string is invalid, correct it.

   ○ _____ `"What's up, doc?"`

   ○ _____ `'Who's on first?'`

   ○ _____ `""But I do not want to go among mad people,''`
      `Alice remarked."`

   ○ _____ `''Oh, you can't help that,'' said the Cat'`

9. Assume the variable $USER `$USER` is set to your login id. What would be printed by each of the following statements?

   echo 'Greetings, $USER'

   echo "Greetings, $USER"

10. In your own words, what does a pipe do? Give an example.

Unit 02_030 — Man Pages

11. In Linux, what is better, `more` or `less`? Explain your answer.

12. If this section is about man pages, why did I start with a discussion of more and less?

13. What doesn't Ctrl-C work for copy in Unix shells like Bash?

Unit 02_040A — Password Mathematics

14. What is entropy? Use your own words and explain it in terms of passwords. Do not just copy a definition of entropy from another source.

15. Given the formula $Entropy = Range^{Length}$, which is more important, Range or Length? Why?

Unit 02_040B — Practical Passwords

16. Make up good passwords that are easy to remember but different for the websites www.netflix.com and www.hulu.com.

17. What is two factor authentication?

18. What would be an example of one factor authentication? (Not in the notes. Think about it.)

19. Will biometrics solve the password problem? Explain your answer.

By Maxo based opoun the work File:Tux-G2.png