COMS 6100 - Homework 8 - Linux - Regular Expressions

September 29, 2020

- 1. Command: grep --color=auto ing 161.txt
 - **Prediction:** This command will search for "ing" and color it.
 - Section of actual output

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- Analysis: It looks in the file words containing "ing" and returns the whole line. It also highlights in "ing" in each line.
- 2. Command: grep --color=auto ^B 161.txt
 - **Prediction:** This command will search for anything that starts with a capital B.
 - Section of actual output

But so little interest had he taken in the matter, that he owed all his Brandon seems a great deal at home, nobody can tell what may But though Mrs. Ferrars DID come to see them, and always treated them But so it was. Instead of falling a sacrifice to an irresistible Between Barton and Delaford, there was that constant communication

- Analysis: This command looks for any lines starting with a capital B. It then highlights the B in red.
- 3. Command: grep --color=auto l\$ 161.txt

- **Prediction:** This command will look for any line that ends in l, highlight the l, and return each line.
- Section of actual output

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- Analysis: This looked for any line that ends in l, highlighted the l, and returned each line.
- 4. Command: grep --color=auto "\.\$" 161.txt
 - **Prediction:** This command will search for any line that ends in a period, highlight the period, and return the whole line.
 - Section of actual output

works.

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- Analysis: This command searched for any line that ended in a period, highlighted the period, and returned the whole line.
- 5. Command: grep -v --color=auto "the" 161.txt
 - **Prediction:** Not sure on this one. It will search for the word "the" and highlight it in red but not sure about the -v.
 - Section of actual output

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- Analysis: Returns all lines that does not have a "the" in it.
- 6. Command: grep -v --color=auto " the " 161.txt

- **Prediction:** This command will search for sentences that have the string "the". including the spaces, and return all other lines that do not match this criteria.
- Section of actual output

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- Analysis: This command searched for sentences that have the string "the". including the spaces, and returned all other lines that did not match this criteria.
- 7. Command: grep --color=auto ".oo.ness" 161.txt
 - **Prediction:** This command will search for any line that has "oo" then "ness" in a line. highlight the word, then return the line.
 - Section of actual output

and I feel the goodness of Colonel Brandon most sensibly. There are for I cannot be ignorant that to you, to your goodness, I owe it she hoped no coolness, no slight, would appear in their behaviour to his goodness—with a conviction of his fond attachment to herself, between themselves, or producing coolness between their husbands.

- Analysis: This command searched for any line that has "oo" then "ness" in a line. highlighted the word, then returned the line.
- 8. Command: grep --color=auto T[a-z]* 161.txt
 - **Prediction:** This command will search for T followed by some letter then anything else. It will then return the lines and highlight the results.
 - Section of actual output

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- Analysis: This command searched for T followed by some letter then anything else. It returned the lines and highlighted the results.
- 9. Command: grep -E --color=auto "bo+" 161.txt
 - **Prediction:** This command will find any words that start with "bo" with characters at the end or the end of line.
 - Section of actual output
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 - Analysis: This command searched for any lines that had "bo" and returned the whole line, highlighting the results.
- 10. Command: egrep --color=auto "bo+" 161.txt
 - **Prediction:** Same as the commend before this. Not sure what egrep vs grep would do.
 - Section of actual output
 - Section 3. Information about the Project Gutenberg Literary Archive Section 4. Information about Donations to the Project Gutenberg Section 5. General Information About Project Gutenberg-tm electronic This Web site includes information about Project Gutenberg-tm, subscribe to our email newsletter to hear about new eBooks.
 - Analysis: Same as the commend before this. No noticeable difference.
- 11. Command: grep --color=auto the 161.txt
 - **Prediction:** Searches for the word "the" and returns lines with that word.
 - Section of actual output

methods and addresses. Donations are accepted in a number of other Professor Michael S. Hart is the originator of the Project Gutenberg-tm editions, all of which are confirmed as Public Domain in the U.S. Most people start at our Web site which has the main PG search facility: including how to make donations to the Project Gutenberg Literary

• Analysis: Searches for the string "the" and returns lines with that string.

12. Command: grep --color=auto .oo. 161.txt

- **Prediction:** This command will search for "oo" and turn lines with that string.
- Section of actual output

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• Analysis: This command searched for "oo" and turned lines with that string.

13. Command: grep -n --color=auto .oo. 161.txt

• **Prediction:** This command will search for the string "oo", return the lines with that string, and do something with the formating of those lines.

• Section of actual output

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• Analysis: This command searched for the string "oo", returned the lines with that string, and gave the line number on the left.

14. Command: grep -n --color=auto "t[wo]o" 161.txt

• **Prediction:** This command will search for "to" or "two" and return the lines with their line numbers on the left.

• Section of actual output

12558:in which their husbands of course took a part, as well as the frequent 12568:his brother too little, or bringing himself too much;—and if Edward 12600:than herself under the event of a former attachment, whom, two years 12601:before, she had considered too old to be married,—and who still sough 13012:Gutenberg—tm eBooks with only a loose network of volunteer support.

- Analysis: This command searched for "to" or "two" and returned the lines with their line numbers on the left.
- 15. Command: grep -n --color=auto "t[wo]o." 161.txt
 - **Prediction:** This command will search for "to" or "two" and return the lines with their line numbers on the left. Spaces included.
 - Section of actual output

6234:together at Barton? The morning that we parted too! When he told me 6394:finishing her wine! And the dried cherries too! Lord! nothing seems 8982:too. But why should not I wear pink ribbons? I do not care if it IS 11020:day or two. Good bye."

11924: she wished that she had shaken hands with him too. But it was then to

- Analysis: This command searched for "to" or "two" with punctuation being allowed after the string, and returned the lines with their line numbers on the left.
- 16. Command: grep -n --color=auto "t[wo]o[^k] " 161.txt
 - **Prediction:** This command will search for "to", "two", or "tok" the return results with a line number in front of the results.
 - Section of actual output

11931:took a seat as far from him as she could, and maintained a strict 11935:awful pause took place. It was put an end to by Mrs. Dashwood, who 11962:knowing what to do; took up a pair of scissors that lay there, and 12467:till every thing was ready, and the ceremony took place in Barton 12558:in which their husbands of course took a part, as well as the frequent

- Analysis: The command searched for "too", "took", and "two" and returned the results with the line number on the left.
- 17. Command: grep -i --color=auto most 161.txt
 - **Prediction:** This command will search for "most" with some kind of indentation.
 - Section of actual output

conduct, her most favourite maxims. She was born to overcome an as the least considerable, that though sisters, and living almost things that you can do with most Project Gutenberg-tm electronic works

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- Analysis: This command will search for "most" and list the results regardless if upper or lower case.
- 18. Command: grep -i --color=auto ^most 161.txt
 - **Prediction:** This command will search for "most" regardless if upper or lower case.
 - Section of actual output

most complete thing of its kind, he said, that ever was, and you all most gratifying to her feelings! It was an advantage that could not be most immoderately. The idea of Edward's being a clergyman, and living most wearing anxiety seemed to make requisite, was kept off by Most people start at our Web site which has the main PG search facility:

- Analysis: This command searched for lines starting with "most".
- 19. Command: grep --color=auto "n.n." 161.txt
 - **Prediction:** This command will look for any strings that match n(some character)n(character).
 - Section of actual output

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- Analysis: This command looked for any strings that matched n(some character)n(character).
- 20. Command: grep --color=auto "n.n.*" 161.txt
 - **Prediction:** This command will search for n(character)n(character)(punctuation).
 - Section of actual output

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- Analysis: This command will search for n(character)n(character)(punctuation) and highlight the n(character)n-and everything after that.
- 21. Command: grep --color=auto "n..n." 161.txt
 - **Prediction:** This command will look for any strings that match n(some character)(character)n(character).
 - Section of actual output

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- **Analysis:** This command searched for any strings that match n(some character)(character)n(character).
- 22. **Command**: grep --color=auto "n[^][^]n." 161.txt
 - **Prediction:** This will search for n(character or punctuation)(character or punctuation)n(character) and return the results.
 - Section of actual output

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- Analysis: This command searched for n(character)(character)n.
- 23. Command: grep --color=auto" $^{(.*)}$," 161.txt
 - **Prediction:** This command will search for anything that has two backslashes and ends with a comma.
 - Section of actual output

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- Analysis: This command searches for anything that has a , in the line and highlights everything before.
- 24. **Command**: egrep --color=auto "^\(.*\)," 161.txt
 - Prediction: Same command as regular grep command.
 - Section of actual output
 - Analysis: This command did not result.
- 25. **Command**: egrep --color=auto "^(.*)," 161.txt
 - **Prediction:** This command will search for anything that has a comma and highlight everything before it.
 - Section of actual output

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- **Analysis:** This command searched for anything that has a comma and highlighted everything before it.
- 26. Command: egrep --color=auto ",\(.*\)\$" 161.txt
 - **Prediction:** This command will find anything that has a command at the end of the line and highlight everything before it.
 - Section of actual output
 - Analysis: This command did not run for me.
- 27. **Command**: egrep --color=auto ",(.*)\$" 161.txt
 - **Prediction:** The command will search for anything that has a comma then highlight everything after it.
 - Section of actual output

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- Analysis: The command searched for anything that had a comma then highlighted everything after it, including the comma.
- 28. Command: egrep --color=auto ",\(.*\)\." 161.txt
 - Prediction: This command will do nothing for me.
 - Section of actual output
 - Analysis: This command did nothing for me.
- 29. Command: egrep --color=auto "Th[^[:space:]]+" 161.txt
 - **Prediction:** This command will search for any line that has a "th" then some character then a space and is not at the end of the line.
 - Section of actual output

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- Analysis: This command searched for any line that has a "th" then some character then a space and was not at the end of the line.
- 30. Command: egrep --color=auto "t[a-z][a-z]k" 161.txt
 - **Prediction:** This command will search for anything that has a "t"(letter)(letter)"t".
 - Section of actual output

till every thing was ready, and the ceremony took place in Barton the rest followed in course. Instead of talking of Edward, they came gradually to talk only of Robert,—a subject on which he had always in which their husbands of course took a part, as well as the frequent ever appeared in Robert's style of living or of talking to give a

- Analysis: This command searched for anything that has a "t" (letter) (letter) "t" and returned the line.
- 31. Command: egrep --color=auto -o "t[a-z][a-z]k" 161.txt
 - **Prediction:** This command will search for anything that has a "t"(letter)(letter)"t" and order the lines by the individual orders sorted.
 - Section of actual output

took

talk

talk

took

talk

- Analysis: This command searched for anything that has a "t" (letter) (letter) "t" and returned only the words one per line.
- 32. Command: egrep -o "t[a-z][a-z]k" 161.txt | sort | uniq -u
 - Prediction: Write about prediction here.
 - Section of actual output

trok

- Analysis: Search for unique words that have "t" (letter) (letter) "t" and only appears once.
- 33. Command: egrep -o "t[a-z][a-z]k" 161.txt | sort | uniq -d
 - **Prediction:** Search for unique words that have "t" (letter) (letter) "t" and return the words only descending.
 - Section of actual output

tack

talk

task

tock

took

trik

• Analysis: Search for unique words that have "t" (letter) (letter) "t" and return the words, regardless of how many times each word has appeared.

- 34. Command: egrep -o "t[a-z][a-z]k" 161.txt | sort | uniq -d | wc
 - **Prediction:** Search for words that follow the same pattern of "t"(letter)(letter)"t" and return the words, sorted, with word counts.
 - Section of actual output

6 6 30

• Analysis: Calculates the word counts for words matching the pattern "t" (letter) (letter) "t".

35. Command: grep the *

- **Prediction:** Search all text files for the string "the".
- Section of actual output

161.txt:methods and addresses. Donations are accepted in a number of other 161.txt:Professor Michael S. Hart is the originator of the Project Gutenberg 161.txt:editions, all of which are confirmed as Public Domain in the U.S. 161.txt:Most people start at our Web site which has the main PG search facil 161.txt:including how to make donations to the Project Gutenberg Literary

- Analysis: Search all text files for the string "the" and list the file on the left.
- 36. Command: grep -h *
 - **Prediction:** Grab the top line for each text file and list the file on the left.
 - Section of actual output

grep: kitty: Is a directory
grep: sampledir: Is a directory

- **Analysis:** Searched for items in current directory that are directories.
- 37. Command: grep -oh the * | wc
 - **Prediction:** List files in current directory with the string "the" and how many times it appears in each file.
 - Section of actual output

grep: kitty: Is a directory
grep: sampledir: Is a directory

7060 7060 28240

• Analysis: List files in current directory with the string "the" and how many times it appears in each file. It does not give the name of the file.

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