Week 5 Notes

['] Command Line Editors

- Working with text files in the terminal
- Editors
 - Line Editors (Present in almost every flavour of UNIX / GNU Linux)
 - ed
 - ex (improved version of ed)
 - Terminal Editors
 - pico (Came along with the pine email application)
 - nano (Features added to pico)
 - vi (most popular and complex)
 - emacs
 - GUI Editors
 - KDE
 - kate
 - kwrite
 - GNOME
 - gedit
 - sublime
 - atom (popular among github users)
 - brackets (Popular for those writing html code)
 - o IDE
 - eclipse
 - Bluefish
 - NetBeans
- Features of text editors
 - o Scrolling, view modes, current position in file
 - Navigation (char,word,line,pattern)
 - o Insert, Replace, Delete
 - o Cut-Copy-Paste
 - o Search-Replace
 - Language-aware syntax highlighting
 - o Key-maps, init scripts, macros
 - Plugins
 - Both vi and emacs editors satisfy all the above requirements

ed commands

Action	Command
Show the Prompt	Р
Command Format	<pre>[addr[,addr]]cmd[params]</pre>

Action Command

Commands for location 2 . \$ % + - , ; /RE/

Commands for editing f p a c d i j s m u

Execute a Shell command !command

edit a file e filename

read file contents into buffer r filename

read command output into buffer r!command

write buffer to filename w filename

quit

) Using ed

- man ed doesn't give much info . Use info ed
- ed test.txt shows a number indicating number of bytes read into memory
- 1 displays the first line
- \$ displays the last line
- ,p and %p shows the contents of the entire buffer
- 2,3p range 2nd to 3rd line
- /hello/ matches and shows first occurance of the pattern
- + and to scroll by line
- ;p from current position to end of buffer
- displays the current line
- !date running the date command within ed
- r !date read output of date command to buffer at current position
- w writes the file (saves it)
- d delete current line
- a to append after current line. Press . and enter when done
- s/appended/Appended/ Substitute Search and replace from current line.
- f shows the name of the file being edited
- p shows the contents of the current line
- j for joining lines . Usage 5,6j to join line 5 and 6
- m to move a line to a particular position. Usage m1 to move current line to just below line
 1. m0 to move it right to the top
- u to undo previous change
- To add something to every line %s/\(.*\)/PREFIX \1/
 - \1 is the back substitution
 - \(.*\) indicates any character that can be matched
 - PREFIX is the replacement string
- 3,5s/PREFIX/prefix/ substitutes prefix for PREFIX from line 3 to 5

Commands for editing in ed / ex

Command	Action
f	show name of file being edited
р	p rint the current line
a	append at the current line
С	c hange the line
d	delete the current line
i	insert line at the current position
j	join lines
S	search for regex pattern
m	move current line to position
u	undo latest change

Using nano

• Link

Using vi

• Link

Using emacs

• Link