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Regular Expressions

- Find a pattern in text file(s).
- Regular expressions are patterns used to match character combinations in strings.
- A regular expression pattern is composed of simple characters, or a combination of simple and special characters e.g. /abc/, /ab*c/

grep

- Pattern is given using regex wild-card characters.
 - Basic wild-card characters
 - \$ find at the end of line.
 - ^ find at the start of line.
 - [] any single char in give range or set of chars
 - [^] any single char not in give range or set of chars
 - . any single character
 - zero or more occurrences of previous character
 - Extended wild-card characters
 - ? zero or one occurrence of previous character
 - one or more occurrences of previous character
 - {n} n occurrences of previous character
 - {,n} max n occurrences of previous character
 - {m,} min m occurrences of previous character
 - {m,n} min m and max n occurrences of previous character
 - () grouping (chars)
 - () find one of the group of characters
- Regex commands
 - o grep GNU Regular Expression Parser Basic wild-card
 - o egrep Extended Grep Basic + Extended wild-card
 - o fgrep Fixed Grep No wild-card
- Command syntax
 - o grep "pattern" filepath
 - o grep [options] "pattern" filepath
 - -c : count number of occurrences
 - -v : invert the find output
 - -i : case insensitive search
 - -w : search whole words only
 - -R: search recursively in a directory
 - -n: show line number.

VI Editor

- sudo apt-get install vim
- VI editor works in two modes
 - o command mode

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- o insert mode
- press i to go into insert mode
- press Esc to go into command node
- VI editor commands:
 - o :w write/save into file
 - o :q quit vi editor
 - o :wq save and quit
 - o :y to copy current line
 - o :ny to copy nth line
 - yy to copy current line
 - o nyy copy n lines from current line
 - :m,ny copy fomr mth line to nth line
 - o :d to cut current line
 - o :nd to cut nth line
 - o dd to cut current line
 - o ndd cut n lines from current line
 - o :m,nd cut fomr mth line to nth line
 - o press p to paste copied line on next line of current line
- To do setting in vi editor
 - o create file into home directory as below:

vim ~/.vimrc

• add below content into it

```
set number
set autoindent
set tabstop=4
set nowrap
```