

Useful Tool

Terminal Usage

scp Remotely Transfer Files

Copy files from one machine to another

- **<source>** → the path to a local file
- **<destination>** → the path to a remote file
- **-r** → copy files recursively

pwd Print working directory

This tells you what directory you are currently in

cd Change directory(cd)

This let you move into another directory

Important Diretory Names

- **~** The home directory
- **.** The current directory
- **..** The parent directory
- **/** The root directory
 - This is the folder that contains everything
 - i.e. It has no parent

ls [path], tree[path] Listing Files

- **-a** print all contents, including the hidden files
- **-l** give you more informaiton

cat <filename> Printing files

Quickly print the content of the file to the console

less <filename> Display and scroll through files

It is useful if you want to view the contents of a long file that doesn't fit on one screen

cp <source> <destination> Copy files

mv <source> <destination> Move or Rename files

rm <file> PERMANENTLY delete files

- **-r** remove files recursively, i.e. remove a directory

mkdir <directory> Make directory

touch <files> Create an empty file

^D Exiting from a REPL

- REPL: read-eval-print-loop
- REPL will stop when there is no more input
- **^D** will trigger the "EOF" signal and stop the program

^C Quitting a Program

Vim

Navigation

Key	Description
w	Move left
j	Move down
k	Move up
l	Move right
w	Forward one word, start at next word
e	Forward one word, stop at end of current word
b	Back to nearest word start
W	Same as w , but only use spaces for a word boundaries
E	Same as e , but only use spaces for a word boundaries
D	Same as d , but only use spaces for a word boundaries
gg	Move to top of file
G	Move to bottom of file
:20	Move to line of 20
}	Move to the next empty line
O	Move to the start of current line
\$	Move to the end of current line
%	Move to the corresponding parenthesis and bracket

Editing

Key	Description
i	Insert right before current character
a	Insert right after current character
I	Insert at the beginning of the line (skipping whitespace)
A	Insert at the end of the line
o	Insert new line below this line

O	Insert new line above this line

Searching

Key	Description
/foo<ENTER>	Search 'foo' in the line
n	Go to the next occurrence of the current search term
p	Go to the previous occurrence of the current search term

Visual mode

Key	Description
v	Enter VISUAL mode, selecting from a cursor start position to a cursor end position
V	Enter VISUAL LINE mode, selecting from a starting line to an ending line

Single character

Command	Action
x	Delete character under the cursor
r	Replace character under cursor with another character
s	Delete character under cursor and move to insert mode

Action and Motion

Command	Action
d	Delete text specified by motion
c	Delete text specified by motion and go into insert mode
y	Yank (copy) text specified by motion

Command	Motion
\$	Go to the end of the line
G	Go to the end of the file
f .	Go to the next occurrence of ‘.’ on the current line

Example

- **d\$** delete to the end of the line
- **cf)** change through the next closing parenthesis ”)”
- **yG** copy everything through the end of the file
- **ciw** delete the word under current cursor and enter into INSERT mode

Tabs & Splits

Key	Description
:tabe <filename>	Open <filename> in a new tab
gt	Cycle forward through your open tabs q
gT	Cycle backward through your open tabs
NgT	Go to the Nth tab
:vs <filename>	Open <filename> in a vertical split
:sp <filename>	Open <filename> in a horizontal split
^W h	Go to the split to the left
^W j	Go to the split to the below
^W k	Go to the split to the above
^W l	Go to the split to the right