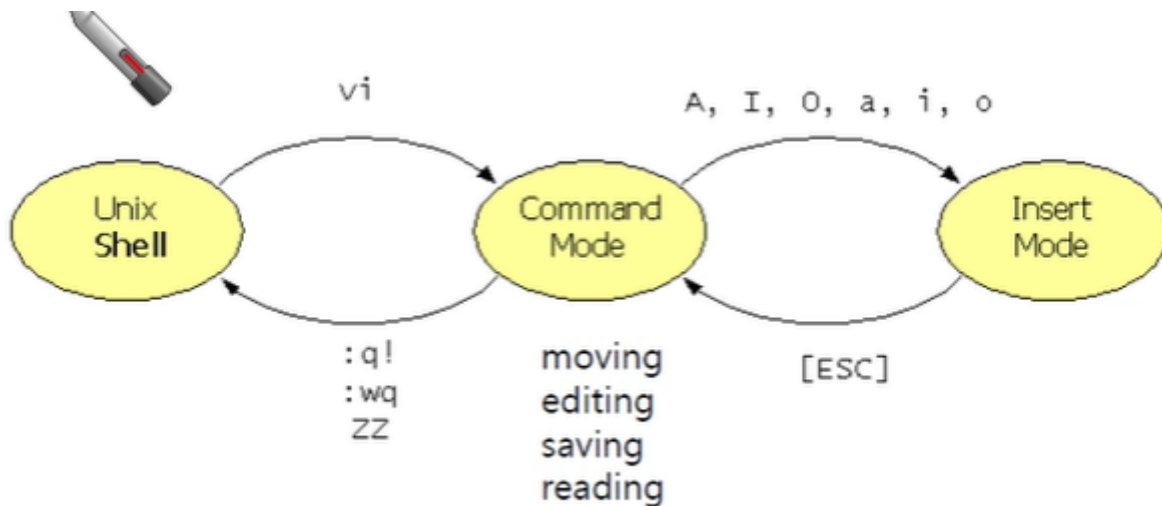# Chapter 7 - Vi Editor

Philipp Moritzer - 21170004

Vi Modes

```
$ vi
$ vi filename
```


Moving within a file

- h,j,k,l (left, down, up, right)

- 0,^(left most), $(right most)

- [Enter] Next line

- Ctrl + F : One Page Forward

- Ctrl + B : One Page Backwards

- Ctrl + U : Half Page Up

- Ctrl + D : Half Page Down

- :0, :1 - First Line

- 😒 - Last Line

- :100 - 100th Line

- Ctrl + % ({<--->}) Move in between brackets

- :set nu - displays line numbers

Searching

- /string
  search string(forwards)
- n
  Go to next string
- N
  Go to previous string
- ?string
  Search backwards

Exit / save

- :q - quit
- :w - write to the file
- :wq - write and quit
- q! - exit without saving
- :wq! - overwrite and exit
- ZZ - save and exit
- :x - exit
- :w filename - write to file filename
- :r filename - read and insert file filename

Insert Mode

- i - insert
- a - append
- o - insert from next line
- [esc] - go to command mode

Delete

- x - Delete 1 Character
- 5x - Delete 5 Characters
- dd - Delete 1 line
- 3dd - Delete 3 lines
- D - delete remaining line of this line from the cursor
- J - join current line and next line
- i[enter][esc] - separate line

Change

- r - replace 1 character
  - ra - 1 character is changed to 'a'

- 3r - replace 3 characters
  - 3ra[esc] - 3 Characters are changed to 'aaa'
- cw - change 1 word
  - cwabc[esc] - word is changed to 'abc'
  - cwab cd 12[esc] - word is changed to 'ab cd 12'
- 3cw: change 3 words
  - 3cwabc[esc] - 3 words are changed to 'abc'
  - 3cwab cd 12[esc] - 3 words are changed to 'ab cd 12'

Undo / Redo

- u - Undo (Cancel Change)

  - uu - Cancel undo

- . - redo

  - /abc //search 'abc'
  - cwABCD[esc] //change to 'ABCD'
  - n. //search next and change to 'ABCD'

Copy and move

```
$ Copy a line
- yy -> [move] -> p

$ Copy several lines
- 3yy -> [move] ->p

$ Move a line
- dd -> [move] -> p

$ Move several lines
- 3dd -> [move] -> p
```

Running commands

- :%s/abc/ABCD/g
  - change all 'abc' to 'ABCD' in file
- :10,$ s/abc/ABCD/g
  - change all 'abc' to 'ABCD' from line 10 to end of file
- :0,$ s/[Ctrl + V][CTRL+M]//g
  - delete all ^M character in file
- :100,200 w! filename
  - save line 100 to 200 to file filename

Miscellaneous

- :set nu - show line number

- :set nonu - hide line number
- :sh - go to sh temporary
  - return to vi by $exit
- :!pwd run a command in vi
  - press enter to edit continously
- Ctrl + l - reset screen