



Command mode:

```

:q quit | :q! quit without saving (exit Vim) shift - zq
:w write (save files)
:wq save and quit shift - zz
:e {name of file} open file for editing e.g.:e helloworld.c
:{number} go to line {number}
:help {topic} open help e.g.:help dd
  
```

Press `enter/return` to execute!

Insert mode:

```

i enter insert mode
o / O insert line below / above and enter insert mode
A jump to the end and enter insert mode
C delete the rest of the line and enter insert mode
  
```

Normal mode:

Movement

Basic movement: `h`, `j`, `k`, `l` (left, down, up, right)
 Words: `w` (next word), `b` (back to last word), `e` (end of next word)
 Lines: `0` (beginning of line), `^` (first non-blank character), `$` (end of line)
 Scroll: `Ctrl-u` (up), `Ctrl-d` (down)
 File: `gg` (beginning of file), `G` (end of file)
 Previous / Next paragraph: `{` / `}`
`{number}G`: go to line `{number}`
 Find: `f{character}`, `t{character}`, `F{character}`, `T{character}`
 Find and jump to forward/backward `{character}` on the current line
 Search: `/ {regex}`, and then
 `n` / `N` for next / previous navigating matches

Edit

`x` delete character
`r` substitute character (`R` enter Replace mode)
`u` undo, `<Ctrl-r>` to redo
`y` copy / “yank” (`d` can cut before pasting) => `yy` yank the whole line
`dd` delete or cut the whole line
`p` / `P` paste below / above
`~` flips the case of a character

Counts and Combo

You can combine nouns + verbs + number - it will repeat the verb + nouns action the number of times . e.g.

`dw` delete word, `d$` delete to end of line, `d0` delete to beginning of line
`c{motion}` change {motion} e.g. `cw` change word
`3j` move 3 lines down
`6w` move 6 words forward
`9dw` delete 9 words
`ci(` change the contents in the current pair of parentheses
`ci[` change the contents in the current pair of square brackets
`da'` delete a single-quoted string, including the surrounding single quotes

Visual modes:

It's like using mouse to select a certain area of content:

`v` enter visual mode
`V` enter visual line mode
`Ctrl-v` enter visual block mode

And then use movement keys to make selection.

And then **edits**

Useful resource:

Vimtutor in CLI

<https://vim-adventures.com/>

<https://www.vimgolf.com/>

<https://vim.fandom.com/>

<https://vi.stackexchange.com/>