

Linux VIM

Vim was the first Unix editor.

WIKI : [vimtutor](https://vim.rtorr.com/)

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Vim has 4 modes :

- normal mode
- insert mode
- visual mode
- command line mode

Saving a file :

- `:w`
- `:w newfilename`

Close a file :

- `:q`
- `:wq` (save and quit)
- `:q!` (unsave and quit)
- `:ZZ` (change if changed and quit)

Line Numbers:

- `: set nu` (show lines)
- `:n` (put cursor at line n)
- `h,j,k,l`: left, down,up, right (navigation keys) <--> arrow keys
- `$` : go to end of line
- `0`: go to beginning of line
- `w`: forward a word
- `b`: backward a word
- `Shift+G`:bottom of file
- `1+Shift+G or gg`: beginning of file
- `ctrl+d` : half of page down scroll
- `ctrl+u` : half of page up scroll

Editing in Insert Mode :

- **i** : enter insert mode before the cursor
- **a** : enter insert mode after the cursor
- **I** : enter insert mode at beginning of line
- **A** : enter insert mode at end of line
- **o** : insert new line below
- **O** : insert new line above
- **x** : delete character where the cursor is
- **r** : replace character where the cursor is
- **dd** : delete entire line where the cursor is
- **2dd** : delete two lines where the cursor is
- **5x** : delete 5 characters where the cursor is
- **dG** : delete from cursor to end of file
- **d\$** : delete from cursor to end of line
- **dgg** : delete from cursor to beginning of file
- **:1,21d** : delete all lines from beginning of file to 21 line
- **:4,\$d** : delete from line 4 to end of file

Editing in Visual Mode :

1. **v** : enter visual mode
2. select text
3. **y** = yank copy the selection
4. **c** : change cut
5. **p** : paste (from normal mode)
6. **d** : delete
7. **yy** : copy entire line (from normal mode)

Build Efficiency :

- **:E** view filesystem while opening a file
- **:vs** (vertical split) or **:split** (horizontal split)
- **:e newfile** create a new file
- **:ls** list buffers (opened files)
- **:bp** previous buffer
- **:bn** next buffer
- **:bn** (n a number) move to n'th buffer
- **:b <filename-part>** with tab-key providing auto-completion
- **u** undo change
- **5u** undo 5 changes

- `ctrl+r` redo
- `5<Ctrl+R>` redo 5 changes
- `:set paste` turn off auto indent
- `:set nopaste` turn on auto indent
- `.` repeat last change
- `/searchterm` :
 - `n` : next
 - `N` : previous
- `/searchterm\c` or `\csearchterm` : case sensitive
- `?searchterm` : search backwards
- `:%s/replaceme/withme/g` : search and replace
 - `\r` : replace all occurrences
 - `\c` : prompt before changing
- `:%s/replaceme/withme/gc` search and replace but with confirmation
- `:%s/\creplaceme/withme/g` search and replace case sensitive

VIMDIFF :

- Useful for viewing differences between two files
- openfiles :
 - `vimdiff file1 file2`
 - `vim -d file1 file2`
- Colors :
 - Purple : differing line
 - Red: differing characters in the differing line
 - Blue: new block
 - Teal: missing block
- `ctrl+ww` switch between windows
- `]c` : go to next diff
- `[c` : go to previous diff
- `dp` : diffput (push/put changes)
- `do` : diffget (pull/get changes)
- `:diff update` rescan the files for any changes