

Vim Basics — Beginner Friendly Notes

Vim is a powerful text editor that has **three main modes** and many shortcuts. This guide is for beginners.

1 Vim Modes

1. Normal Mode

- Default mode when you open Vim.
- Press **Escape (Esc)** to return to normal mode from other modes.
- Run Vim commands:
 - `:<vim command>` → e.g., `:set number`, `:set relativenumber`, `:set shiftwidth=4`, `:set number!`
 - `:!<bash command>` → e.g., `:!ls`, `:!pwd`

2. Insert Mode

- You must be in normal mode to enter insert mode.
- Ways to enter insert mode:
 - `i` → insert before the cursor
 - `a` → insert after the cursor
 - `o` → insert a new line below the current line

3. Visual Mode

- Used to select text.
- Types of visual mode:
 - `v` → visual character mode
 - `Shift + v` → visual line mode
 - `Ctrl + v` → visual block mode

2 Basic Vim Shortcuts

Shortcut	Action
<code>d</code>	delete content before the word
<code>D</code>	delete content after the cursor
<code>dd</code>	delete the whole line
<code>3dd</code>	delete 3 lines
<code>c</code>	change (deletes content and goes to insert mode)

Shortcut	Action
y	copy (yank)
h	move cursor left
j	move cursor down
k	move cursor up
l	move cursor right
r	replace a single character
w	jump to next word
b	jump to previous word
dw	delete a word
2dw	delete 2 words
diw	delete the whole word under cursor
ciw	change word under cursor
e	jump to end of word
I	move to beginning of line (insert)
0	move cursor to beginning of line
\$	move cursor to end of line
d0	delete from cursor to beginning of line
yiw	copy a word
ci"	change content inside quotes
%	jump between matching parentheses
d%	delete including parentheses
t*	jump before occurrence of *
f*	jump to occurrence of *
T*	jump backward before *
gg	move to beginning of file
Shift+G	move to end of file
123G	move to line 123
>	indent right

Shortcut	Action
<	indent left
--	auto-indent current line
gg=G	auto-indent entire file
#	jump to previous occurrence of word under cursor
*	jump to next occurrence of word under cursor
m	mark a position (ma to mark, 'a to go back)
zz	center current line on screen
.	repeat previous command
dt"	delete until quotation mark
"7p	paste from register 7

3 Searching and Replacing

- Find a word: :<word>
- n → next occurrence
- N → previous occurrence
- Replace: :%s/<old>/<new>/g
- Use visual mode to select text and replace in selection.

4 Registers and Macros

- :reg → shows contents of registers
- Macros:
 - qa → start recording in register a
 - Press q again to stop recording
 - @a → execute macro stored in register a

5 Installing Neovim

```
sudo apt install neovim
```

- You can install plugins for additional functionality (e.g., via vim-plug).

6 Extra Tips for Beginners

1. Undo / Redo:

2. `u` → undo

3. `Ctrl + r` → redo

4. Save and Quit:

5. `:w` → save

6. `:q` → quit

7. `:wq` → save and quit

8. `:q!` → quit without saving

9. Move Faster:

10. `Ctrl + d` → scroll down half page

11. `Ctrl + u` → scroll up half page

12. Split Windows:

13. `:split filename` → horizontal split

14. `:vsplit filename` → vertical split

15. `Ctrl + w + h/j/k/l` → move between splits

16. Tabs:

17. `:tabnew filename` → open new tab

18. `gt` → next tab

19. `gT` → previous tab

20. **Use `:help`** whenever unsure:

21. `:help <command>` → detailed explanation of the command