

## Modes

Vim is a modal editor. Understanding modes is crucial.

- Normal Mode: For navigation and manipulation. Default mode (**Esc**).
- Insert Mode: For typing text (**i**, **a**, **o**, etc.).
- Visual Mode: For selecting text blocks (**v**, **V**, **Ctrl-v**).
- Command-line Mode: For executing complex commands (**:**).

## Basic Navigation (Normal Mode)

- **h**, **j**, **k**, **l**: Left, Down, Up, Right.
- **w**, **b**: Move forward/backward by word.
- **0**, **\$**: Move to the beginning/end of the line.
- **gg**, **G**: Move to the beginning/end of the file.
- **Ctrl-u**, **Ctrl-d**: Scroll half-page up/down.

## Editing Commands

- **i**: Insert before cursor.
- **a**: Append after cursor.
- **o**, **O**: Open new line below/above.
- **x**: Delete character under cursor.
- **dd**: Delete (cut) current line.
- **yy**: Yank (copy) current line.
- **p**: Paste after cursor.
- **u**, **Ctrl-r**: Undo, Redo.

## Search and Replace

- **/pattern**: Search forward.
- **?pattern**: Search backward.
- **n**, **N**: Move to next/previous match.
- **:%s/old/new/g**: Replace all occurrences in the file.
- **:%s/old/new/gc**: Replace with confirmation.

## Visual Mode Actions

- **v**: Character-wise selection.
- **V**: Line-wise selection.
- **Ctrl-v**: Block-wise selection (great for column editing).
- **d**, **y**: Delete/Yank selected text.

## Windows and Buffers

- **:e filename**: Open a file in a new buffer.
- **:ls**: List all active buffers.
- **:sp**, **:vsp**: Split window horizontally/vertically.
- **Ctrl-w + h, j, k, l**: Move between windows.

## Exit and Save

- **:w**: Save (write).
- **:q**: Quit.
- **:wq** or **:x**: Save and quit.
- **:q!**: Quit without saving.

## Pro Tips

### Commands with Numbers

Most commands can be prefixed with a number.

- **3dd**: Delete 3 lines.
- **10j**: Move down 10 lines.

### Text Objects

Powerful manipulation based on syntax structure.

- **diw**: Delete inside word.
- **ci"**: Change inside matching double quotes.
- **da(**: Delete a parenthetical block including brackets.

### Markers and Jumps

- **m[a-z]**: Create a mark.
- **'[a-z]**: Jump to the mark.
- **Ctrl-o**, **Ctrl-i**: Jump back/forward in the jump history.