

# VIM Modes

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- **Command mode**
    - Default mode
    - Press **Esc** to enter command mode.
  - **Edit mode (Insert)**
    - Press **i** to enter Insert mode.
    - Edit the file.
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## Create File Using VIM Editor

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```
vim demo01.c          # To create file
ls                    # Check file in directory
gcc demo01.c -o demo01.out # To compile file
./demo01.out          # To run the code
```

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## VIM Run Command File (**.vimrc**)

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The **.vimrc** file is used to configure and customize Vim.

To create:

```
vim ~/.vimrc
```

Add the following settings:

```
set number          - Show line numbers
set autoindent      - Auto indentation new lines
set tabstop=4       - Tab width = 4 spaces
set smartindent     - Smart indentation
set cindent         - C language indentation
set shiftwidth=4    - Indent width = 4 spaces
syntax on          - Enable syntax highlighting
set nowrap         - No line wrapping
set autowriteall    - Auto save
set cursorline     - Highlight current line
```

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# VIM Commands

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## Basic

- `:q` — Quit
- `:w` — Write file
- `:wq` — Write and Quit
- `:q!` — Quit without saving
- `:wqa` — Write and Quit All

## Copy Commands

- `yy` — Copy current line
- `4yy` — Copy 4 lines from current line
- `:3,5y` — Copy lines 3 to 5
- `y$` — Copy from cursor to end of line
- `y^` — Copy from cursor to start of line
- `yw` — Copy current word
- `2yw` — Copy two words from cursor

## Cut Commands

- `dd` — Cut current line
- `3dd` — Cut 3 lines from current line
- `:5,7d` — Cut lines 5 to 7
- `d$` — Cut from cursor to end of line
- `d^` — Cut from cursor to start of line
- `dw` — Cut current word
- `2dw` — Cut two words from cursor

## Paste

- `p` — Paste copied/cut contents

## Undo / Redo

- `u` — Undo
- `Ctrl+R` — Redo

## Format Document

- `gg=G` — Format/indent entire document
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# Multiple File Operation

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- Example:

```
vim main.c fun.c
```

- Opens 2 files, shows `main.c` first.
- To go to next file: `:next`
- To go to prev file: `:prev`
- Shortcut : `Esc + Ctrl+ww`
- Save all file changes: `:wqa`

- Open files horizontally:

```
vim -o file1 file2 file3
```

- Open files vertically:

```
vim -O file1 file2 file3
```