

# VIM modes

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- Command mode
  - Default mode
  - Press "Esc" to go in command mode.
- Edit mode (Insert)
  - Press "i" to go in Insert mode.
  - Edit the file.

```
# install vim
> sudo apt-get install -y vim

# launch vim
# > vim <file name>
```

## create a vim configuration file (.vimrc)

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- create a new file named .vimrc in your home directory
- add the configurations
- save the file

```
# create file in home directory
> vim ~/.vimrc
```

- Add command inside it

```
set number          # Set numbers to line
set autoindent       # Get new line with proper indentation
set tabstop=4        # Set Tab spaces
set smartindent      # Smart indentation
set cindent          # C language indentation
set shiftwidth=4     # set space after new line
syntax on            # Highlight syntax
set nowrap           # Continue line type
set autowriteall     # Like Auto Save
```

# VIM Commands

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- Basic
  - `:q` # Quit without saving
  - `:w` # Write into 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 line 3 to 5
  - `y$` # copy line after cursor
  - `y^` # copy line before cursor
  - `yw` # copy current word
  - `2yw` # copy two words from cursor
- Cut commands
  - `x` # delete single char
  - `dd` # cut current line
  - `3dd` # cut 3 lines from current line
  - `:5,7d` # cut line 5 to 7
  - `d$` # cut line after cursor
  - `d^` # cut line before cursor
  - `dw` # cut current word
  - `2dw` # cut two words from cursor
- Paste
  - `p` # paste copied contents
- Undo
  - `u` # undo
- Redo
  - press `ctrl+R` # redo
- Find and Replace
  - `:s/pattern1/pattern2/`
    - # find and replace only first occurrence of current line
  - `:s/pattern1/pattern2/g`
    - # find and replace all occurrences of current line
  - `:%s/pattern1/pattern2/g`
    - # find and replace all occurrences of file
- Search
  - `/word` # search word
  - `n` # next occurrence of search
  - `N` # previous occurrence of search
- Format document
  - `gg=G` # format/indent document
- go to a line number
  - `: <line number>` (press enter)

- go to the last line  
esc + shift + g
- go to the first line  
esc + gg

## Create file using VIM Editor

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

## Multiple File Operations in VIM

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1. Open multiple files in vim
2. Navigate between files
3. Save and close all files

- Open multiple files in vim

```
* Open terminal
- e.g. terminal> vim file1 file2
- It opens 2 files but shows file1 so go to next file use command
  :next      # To open another file
Or
shortcut [ esc + ctrl + ww ]
:wqa        # To save all file changes and exit
```

- To open at a time Horizontally  
\$vim -o file1 file2 file3
- To open at a time Vertically  
\$vim -O file1 file2 file3
- To switch between files
  - ctrl + ww