

# Vim commands

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## Basic movements

- `$ touch ~/.vimrc` or `:set nocompatible` : enables VIM functionalities
- `gvim` vs `vim`: `gvim` opens a new window
- `<insert mode> ctrl+w`, `ctrl+h` delete a word, a char
- `3a!<esc>` inserts !!!
- `help i_` shows `<insert mode>` commands
- `help i_ctrl+h` shows help of insert mode `ctrl+h`
- `help ... :` refer to the manual
- inserting multiple lines at VIM: `<visual mode> ctrl+v`, choose multiple lines, `shift+i`, edit, `<esc>`
- `3G`, `10G`, `nG`: go to nth line
- `:set number`, `:set nonumber`
- `ctrl+G`: shows where I am
- `30%`, `n%`: go to n% position of the buffer
- `ctrl+U` vs `ctrl+D`: up vs down
- `ctrl+E` vs `ctrl+Y`: up vs down
- `d3w` vs `3dw`: identical
- `C` vs `S`: Clear the rest of the line and insert mode, delete all line and insert mode
- `..`: repeat the last change
- `df<char>`: delete until `<char>` in a line
- `J`: joining the next line, also works within a visual mode
- `r`: replace a char
- `~`, `3~`, `10~`: change cases
- Macros:
  - Recording: `q[a-z]`
  - Ending: `q`
  - Using: `@[a-z]`
- Digraphs:
  - `ctrl+k+<key>` in `<insert mode>`

- :diagraph
- Search:
  - / ?: forward/backward search
  - use escape(\) for special characters (. \* [ ] ^ % ? ~ \$)
  - n N: forward/backward navi
  - / and up-down arrow for history search
  - ^text text\$ tex.: start end replace with a char
- :set hlsearch / :set nohlsearch / :nohlsearch (to clear current highlights)
- :set incsearch / :set noincsearch
- Marks:
  - Setting: m[a-z]
  - Using: `[a-z] (backtick to the mark), '[a-z] (single quotation to start of the line)
  - :marks
  - ”: last place after jump
- Yanking: y’a could yank all the lines up to mark a
- :vi <file> editing another file
- Register yanking / <insert mode> pasting
  - <visual mode> “[number]y to yank
  - <insert mode> ctrl+r [number] to paste
- 0: moves to the start of a line
- ctrl+[ is the same as <Esc>

## Advanced

- Window split:
  - :split duplicates current working file
  - :new opens a new empty vim
  - :buffers shows buffers
  - :buffer number/filename shows buffer
  - ctrl+w, j k: moves about the panes
- Visual mode multi line editing:
  - > < command indents dedents “shift width”
  - ctrl+v to enter <visual model>, and then shift+i (or I), then type text, and <Esc>
  - also works with A (append), C (delete from block to the end of line)
- >> / << also indents / dedents a line
- 5>> / 5<< applies indents / dedents for the next 5 lines
- syntax on: for syntax coloring

- Example
  - `:filetype on`
  - `:autocmd FileType c,cpp :set cindent`
- Abbreviation:
  - `:abbreviate ad advertisement` (`:ab` also works)
  - `:ab` shows the list
- Mapping (similar to macro)
  - `:map <F5> i{<Esc>ea}<Esc>`
  - `:map` shows the list
- Saving and restoring setting (e.g., `ab` or mapping)
  - `:mkvimrc <file>`
  - `:source <file>`
- `:version` shows which initialization file used
- `:set textwidth=30`
- `:set fileformat=unix,dos / :set fileformat?` shows the list