

cheatSheet.VIM

navinBR

Overview

VIM (Vi IMproved) is a popular and highly configurable text editor for Unix-based systems. It has a user-friendly interface and supports many advanced features such as syntax highlighting, code folding, and regular expression search and replace.

Basic Commands

- **i**: Insert mode.
- **Esc**: Normal mode.
- **:w**: Write the current file.
- **:q**: Quit the current file.
- **:q!**: Quit the current file without saving.
- **:wq**: Write and quit the current file.
- **dd**: Delete the current line.
- **x**: Delete the character under the cursor.
- **p**: Paste the deleted text after the cursor.
- **h**: Move the cursor one character to the left.
- **j**: Move the cursor one line down.
- **k**: Move the cursor one line up.
- **l**: Move the cursor one character to the right.
- **o**: Open a new line below the cursor.
- **O**: Open a new line above the cursor.
- **:r file**: Read the contents of **file** and insert it below the cursor.
- **:read !command**: Read the output of **command** and insert it below the cursor.

Advanced Commands

- **v**: Visual mode.
- **V**: Visual line mode.

- `Ctrl-v`: Visual block mode.
- `u`: Undo the last change.
- `Ctrl-r`: Redo the last change.
- `/pattern`: Search for `pattern` in the current file.
- `?pattern`: Search backwards for `pattern` in the current file.
- `n`: Move to the next match.
- `N`: Move to the previous match.
- `:%s/old/new/g`: Replace all instances of `old` with `new` in the current file.
- `:set number`: Show line numbers.
- `:set nonumber`: Hide line numbers.
- `:set ignorecase`: Ignore case when searching.
- `:set noignorecase`: Respect case when searching.
- `:syntax on`: Enable syntax highlighting.
- `:syntax off`: Disable syntax highlighting.
- `:set wrap`: Wrap lines at the edge of the screen.
- `:set nowrap`: Don't wrap lines.
- `:set tabstop=n`: Set the tab width to `n` spaces.
- `:set expandtab`: Replace tabs with spaces.
- `:set noexpandtab`: Keep tabs as tabs.
- `:g/pattern/p`: Print all lines containing `pattern`.
- `:g!/pattern/p`: Print all lines not containing `pattern`.
- `:sort`: Sort the current lines in alphabetical order.
- `:sort!`: Sort the current lines in reverse alphabetical order.
- `:sort u`: Sort the current lines in unique alphabetical order.
- `:sort u!`: Sort the current lines in unique reverse alphabetical order.
- `:%!command`: Run `command` on the entire file.
- `:g/pattern/!command`: Run `command` on all lines containing `pattern`.
- `:g!/pattern/!command`: Run `command` on all lines not containing `pattern`.
- `:v/pattern/command`: Run `command` on all lines not containing `pattern`.
- `:set hlsearch`: Highlight search results.
- `:set nohlsearch`: Don't highlight search results.
- `:copen`: Open the quickfix window.
- `:cclose`: Close the quickfix window.
- `:cn`: Move to the next error in the quickfix window.
- `:cp`: Move to the previous error in the quickfix window.
- `:cw`: Write the changes in the quickfix window.
- `:cl`: Load the changes in the quickfix window.
- `:cq`: Quit the quickfix window without saving.

Tips and Tricks

- `.`: Repeat the last change.

- **Ctrl-o**: Move to the previous position in the jump list.
- **Ctrl-i**: Move to the next position in the jump list.
- **g;**: Move to the previous change.
- **g,**: Move to the next change.
- **:reg**: Display the contents of the register.
- **"xy**: Yank (copy) the selected text into register **x**.
- **"xp**: Paste the contents of register **x** after the cursor.
- **:map**: Display the current mappings.
- **:map!**: Display the current mappings, including those in the **.vimrc** file.
- **:map <key> <command>**: Create a mapping for **<key>** to run **<command>**.
- **:nmap <key> <command>**: Create a mapping for **<key>** to run **<command>** in Normal mode.
- **:vmap <key> <command>**: Create a mapping for **<key>** to run **<command>** in Visual mode.
- **:imap <key> <command>**: Create a mapping for **<key>** to run **<command>** in Insert mode.
- **:unmap <key>**: Remove the mapping for **<key>**.
- **:nunmap <key>**: Remove the mapping for **<key>** in Normal mode.
- **:vunmap <key>**: Remove the mapping for **<key>** in Visual mode.
- **:iunmap <key>**: Remove the mapping for **<key>** in Insert mode.
- **:set background=dark**: Use a dark background.
- **:set background=light**: Use a light background.
- **:colorscheme**: Display the current color scheme.
- **:colorscheme <scheme>**: Set the color scheme to **<scheme>**.
- **:autocmd**: Display the current autocommands.
- **:autocmd <event> <command>**: Run **<command>** whenever **<event>** occurs.
- **:tabnew**: Create a new tab.
- **:tabclose**: Close the current tab.
- **:tabnext**: Move to the next tab.
- **:tabprev**: Move to the previous tab.
- **:tabfirst**: Move to the first tab.
- **:tablast**: Move to the last tab.

Visual Studio Code Vim Extension Cheatsheet

- Enter Vim mode: **Ctrl + [**
- Normal mode commands:
 - **h**: Move cursor left
 - **j**: Move cursor down
 - **k**: Move cursor up
 - **l**: Move cursor right
 - **i**: Enter insert mode
 - **a**: Enter insert mode after the cursor

- o: Enter insert mode on a new line below the cursor
- O: Enter insert mode on a new line above the cursor
- v: Start visual selection mode
- V: Start line visual selection mode
- u: Undo
- ctrl + r: Redo
- /: Start searching
- n: Find next occurrence of search
- N: Find previous occurrence of search
- dd: Delete current line
- dw: Delete current word
- cw: Change current word
- p: Paste
- r: Replace character under cursor
- Visual mode commands:
 - v: Start visual selection mode
 - V: Start line visual selection mode
 - d: Delete selected text
 - c: Change selected text
- Search mode commands:
 - n: Find next occurrence of search
 - N: Find previous occurrence of search
 - Enter: Exit search mode
- Exit Vim mode: Esc

Visual Studio Code Vim Extension

- Visual Studio Code Vim Extension: <https://github.com/VSCodium/Vim>
- How to use Visual Studio Code Vim Extension: <https://code.visualstudio.com/docs/editor/vim>
- Visual Studio Code Vim FAQs: <https://github.com/VSCodium/Vim/wiki/FAQ>
- Visual Studio Code Vim Command Palette: <https://github.com/VSCodium/Vim/wiki/Command-Palette>
- Visual Studio Code Vim Keyboard Shortcuts: https://code.visualstudio.com/docs/editor/codebasics#_ke-shortcuts

Reference

- VIM homepage: <https://www.vim.org/>
- VIM manual: <https://vimdoc.sourceforge.io/>

- VIM tutorial: <https://www.openvim.com/>
- VIM cheat sheet: <https://vim.rtorr.com/>
- VIM forums: <https://vim.userecho.com/>
- VIM plugins: <https://vimawesome.com/>