

vim

```
Vim??vi????????????????????????????????????????????????????????Emacs?????Unix?
???????????? Vim?????????·???1991????
```

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Vim ?????

????

???????????????	????	????
i	???????????????	? a ????????????????????????????
a	?????????????????	
o	?????????????	
h j k l	?????????h--??, j--??, k--??, l--??	?????????????????????????????????
:1 : 22	???????? ??????22?	?????????????????
gg	???????	
G	???????	???????????????????????????
0 / \$????????/??	
w / W	????????????/??	?????
b / B	????????????/??	?????
x	???????	
J (Shift + j)	???????????	?????????
{	???????????	
}	???????????	
:wq	???????	

:w new.txt	????? new.txt	
:w !sudo tee %	? sudo ????	???????????????? sudo ??????
:q!	?????	???????????????????????????????? ?
:set nu!	??????	
:set hlsearch	Highlight ??????	???????????
:set cuc!	??????	?? json, yaml ??
: syntax on	?? Hihjlight ??	
d dd	?????? ??????	
10dd	??????10?(???)	
y yy	?????? ??????	
3yy	??????3?(???)	
p	??	
/keyword	????	
/KeyWord	????(?????)	
/S[Uu]SE	????????????	
*	????????????	
:%s/old/new/g :%s/old/new/gc	??????old????????new?? gc: ????	
:s#/usr/local/bin#/usr/sbin#g	? # ??????	
:10,30 s/old/new/g	?10-30??? old ? new	

:%s/old1\ OLD2/new/gc	???? old1?OLD2 ? new	
:/<table>/,/</table>/g/^\$/d	?? <table> ... </table> ?????	
:%s\t/ /g	?? Tab ?4???	??????
/s\+\$??????????? Highlight	????? :set hlsearch ??, not support AIX
:%s\s\+\$//	????????????	not support AIX
~	?????	
:%s/[ctrl+V and ctrl+M]//g	?????? ^M	
ggVG	????	?? Ctrl a
dG	????????????	
dgg	????????????	
:1,\$d	??????	
:1,22d	?? 1-22 ?	
:23,\$d	?? 23 ???????	
:! ls -l	???? SHELL ??	:!! ?????
:vsplit my.file	???????????? my.file	ctrl + w + w ????
:split my.file	??????	ctrl + w + w ????
:sort :sort! :sort u :sort i :sort n	?? ???? ????????? ????????? ??????	
u Ctrl + r	Undo Redo	

:g/^\$/d :4,100g/^\$/d :g/pattern/d :!g/pattern/d	??????? ?4-100????? ???? pattern ?? ????? pattern ??	[range]g/pattern/cmd
--	---	----------------------

?????

- ?????????? '.'
- ???????? :terminal
 - :below terminal , :bel term
 - :vertical terminal , :vert term
 - ???? : Ctrl + w + w
 - ???? : Ctrl + w + N ???????? : hi ?
- ???????? :find your-script.sh ??? tab ????? * ???
 - :find *.sh

Visual mode

- ???????? : V
- ???????? : Shift + V
 - ???? : Shift + V
 - ?????????? : V
- ???????? : Ctrl + V
 - ?????????? : I
 - ?????????? : A
 - ?????????????? : \$
- ??????
 - ?? : ?/??
 - ?????? : w
 - ?????????? : f .
 - ?????? : }
- ?????? : Esc
- ?????????? : y
- ?????? : p
- ?????????? : d *(Delete)*
- ?????????? : d > Move to target line > p
- ?????????? : r *(Replace)*
- ?????????? : c *(Change)*
- ?????????? : u *(Undo)*
- ??????????("?")????? : i + " ? ' "

?????????

- ?? MyKeyWord? /MyKeyWord
- ?????????????? *

- ?????? :set hlsearch
- ?????????? :set incsearch
- ?? {,[,[]() ?????? %
- ?????????????? { ? [{
- ?????????????????? zt (Top), zz (Middle), zb (Bottom)
- ?????????????? H (Top), M (Middle), L (Last Line)
- ?????? Ctrl+b (???), Ctrl+f (???)
- ?????? Ctrl+y (??), Ctrl+e (??)

??????

- ?????????? /old -> cw -> ?????? new -> ?????? Esc -> ?????? n -> ?????? .
- ?????????
 1. ???shift + v
 2. ???
 3. ?????? :s/old/new/g (?????????????)

????

```
# ????????????????? p
:<[>yank

# ??????????????. copy t
:<[>copy.
:<[>t.

# ????? 10 ?????
:+10t.

# ????? 10 ?????
:-10t.

# ?????(33 ~ 44)????
:33,44t.
```

????????????????????

1. Ctrl + v
2. ??????????
3. ??????
4. Shift + I
5. ??????????
6. Esc ??????

?????????????`;

1. ?????????
2. Ctrl + **v**
3. ????????
4. Shift + **\$**
5. Shift + **A**
6. ????????? **;**
7. Esc ?????

????

1. Shift + **v**
2. ????
3. **:norm i#** (??????)
4. **:norm x** (??????)

????

1. Shift + **v** (Visually Seleting)
2. ????
3. **:w /path/to/newfile** (Save as newfile)
4. **gv** (reselect the last visual selection)
5. **d** (delete that selection)

?????? (auto-complete)

1. ??????
2. ?? /etc/profile??????
3. Ctrl + **x** -> Ctrl **f**

Tutorials

- [Youtube Channel - Vim \(TheFrugalComputerGuy\)](#)
- [VIM Colors Online](#)
- [VimTricks](#)

Vim FAQ

Err: A line cannot be longer than 2048 characters.

???? VI ?????????? 2048 ??????????????????????

```
cut -c1-2047 before.log > after.log
```

?? 3X MB ???????

“ ex: 0602-101 Out of memory saving lines for undo.

the number must be less than 8 digits.

```
vi -y 99999999 your-file
```

??????

?????????????(autoindent)?????????????

Solution: ??????? `:set paste`

0602-140 The window is too small to display the current line.

AIX ??????????????????

Solution:

1. ? putty ?????????????? 9 ???
2. ?? Vim ?? Vi?

Unable to paste from clipboard on AIX

? Windows ??????? putty ??????????

Solution: `:set mouse=v`

vimrc

vimrc simple

```
"
" Fixed for Python virtualenv as the follow error.
" ModuleNotFoundError: No module named 'powerline'
"

python3 import sys;sys.path.append("/home/along/.local/lib/python3.10/site-packages")
"

" Powerline with Vim
set laststatus=2
python3 from powerline.vim import setup as powerline_setup
python3 powerline_setup()
python3 del powerline_setup

"

syntax on          " Enable syntax highlighting
set number         " Show line numbers
set relativenumber " Show relative line numbers
set tabstop=4      " Set tab width to 4 spaces
set shiftwidth=4   " Set indentation width to 4 spaces
set expandtab       " Use spaces instead of tabs
set cursorline     " Highlight the current line

" Moving Lines
" Ctrl-j: Move down, Ctrl-k: Move down
nnoremap <c-j> :m .+1<CR>==
nnoremap <c-k> :m .-2<CR>==
inoremap <c-j> <Esc>:m .+1<CR>==gi
inoremap <c-k> <Esc>:m .-2<CR>==gi
vnoremap <c-j> :m '>+1<CR>gv=gv
vnoremap <c-k> :m '<-2<CR>gv=gv

" Preserve last editing position
silent! source $VIMRUNTIME/defaults.vim
```

```
" Copy to Clipboard
" Prerequisites: apt install vim-gtk3
" Usage: Press v to select the lines, and then press y to copy
set clipboard=unnamedplus
```

vimrc advanced

```
"
" minimal vimrc with no (extra) plugins
"

"regular settings
"-----
" ui
set number
set ruler
set wildmenu
set showcmd
set showmatch

" encoding/format
set encoding=utf-8
set fileformats=unix,dos,mac

" searching
set hlsearch
set incsearch
set ignorecase
set smartcase

" indent
set shiftwidth=4
set tabstop=4
set softtabstop=4
set autoindent

" allow syntax and filetype plugins
syntax enable
filetype plugin indent on
```

runtime macros/matchit.vim

" Moving Lines

" Ctrl-j: Move down, Ctrl-k: Move up

nnoremap <c-j> :m .+1<CR>==

nnoremap <c-k> :m .-2<CR>==

inoremap <c-j> <Esc>:m .+1<CR>==gi

inoremap <c-k> <Esc>:m .-2<CR>==gi

vnoremap <c-j> :m '>+1<CR>gv=gv

vnoremap <c-k> :m '<-2<CR>gv=gv

" autocmds

"-----

augroup general

autocmd!

"keep equal proportions when windows resized

autocmd VimResized * wincmd =

"save cursor position in a file

autocmd BufReadPost * if line("\") > 1 && line("\")

\ <= line("\$") | exe "normal! g\"" | endif

augroup END

augroup languages

autocmd!

autocmd BufNewFile,BufRead *.bash set syntax=sh

autocmd FileType python xnoremap <leader>r <esc>:'<,'>:w !python3<CR>

autocmd FileType go set noexpandtab

autocmd FileType html :syntax sync fromstart

autocmd FileType html,javascript,css,json,yaml,sh

\ setlocal ts=2 sts=2 sw=2 expandtab

augroup END

Learning

- [A Minimal Vimrc](#)
- [Configure Vim with vimrc](#)

Cheat Sheets

PDF: [vim-commands-cheat-sheet-by-pnap.pdf](https://vim-command-commands-cheat-sheet-by-pnap.pdf)



Vim Cheat Sheet



Created by @dan_nanni on Instagram



Editing Mode

: command mode
ESC normal mode
i insert mode
v visual mode, highlight characters
V visual line mode, highlight lines

Cursor Movement

Character **h** (left) **j** (down) **k** (up) **l** (right)
Word **w** (next start) **b** (prev) **e** (next end)
Line **0** (start) **\$** (end) **^** (first non-blank)
Screen **Ctrl+f** (page down) **Ctrl+b** (page up)
File **gg** (first line) **G** (last line)

Editing Operation

Insert **i** (before cursor) **I** (line beginning)
a (after cursor) **A** (line end)
o (new line below) **O** (new line above)
Delete **x** (current char) **dd** (or **:d**) (current line)
D (to end of line) **dw** (word)

Copy and Paste

Copy **yy** (or **Y**) (current line) **3yy** (3 lines)
yiw (current word without whitespace)
yaw (current word with whitespace)
y\$ (to end of line)
Paste **p** (paste after) **P** (paste before)

Undo and Redo

u Undo the last action
U Undo all latest changes made to the line
Ctrl+r Redo the last action

Search and Replace

Search **/pattern** (from current cursor)
n (next match) **N** (prev match)
Replace **:s/old/new/g** (replace in cur line)
:%s/old/new/g (replace in all lines)
:%s/old/new/gc (replace with confirm)

File Operation

:w Save current changes
:w <filename> Save changes to another file
:q Exit but it will fail with unsaved change
:q! Exit without saving changes
:wq (or **:x**) Save changes and exit
:e <filename> Open a new file

Window Management

:split (or **:sp**) split window horizontally
:vsplit (or **:vs**) split window vertically
:new open a new window horizontally
:vnew open a new window horizontally
Ctrl-w switch cursor between windows
Ctrl-w r rotate window positions

Shell Command

:shell Open separate command prompt
exit Exit command prompt

Customization

:set number Show line numbers
:set tabstop=<N> Change tab width
:set hlsearch Highlight search matches
:set autoindent Enable auto indentation

Modes & Controls

Command Mode ESC (commands preceded by :)

Insertion Mode Entered on insertion or change

Starting VI (command line)

vi <filename>	Edit <i>filename</i>
vi -r <filename>	Edit last version of <i>filename</i> after crash
vi + n <filename>	Edit <i>filename</i> at line <i>n</i>
vi + <filename>	Edit <i>filename</i> at end of file
vi +/str <filename>	Edit <i>filename</i> at first occurrence of <i>str</i>

In insertion mode the following should be preceded by ESC:

:w	Save
:x	Save & Exit
:q	Exit if no changes made
:q!	Exit & discard any changes

Cursor Navigation

h or ◀	Cursor left
j or ▼	Cursor down
k or ▲	Cursor up
l or ▶	Cursor right
w	Next word
W	Next blank delimited word
b	Start of word
B	Start of blank delimited word
e	End of word
E	End of blank delimited word
(Back a sentence
)	Forward a sentence
{	Back a paragraph
}	Forward a paragraph
0	Beginning of line
\$	End of the line
1G	Start of file
G	End of file
:n	<i>n</i> th line of file
f<char>	Forward to <i>char</i>
F<char>	Back to <i>char</i>
H	Top of screen
M	Middle of screen
L	Bottom of screen
%	Matching bracket
gg	Start of document

Inserting Text

i	Insert before cursor
a	Append after cursor
I	Insert before line
A	Append after line
o	Add new line after current line
O	Add new line before current line
r	Overwrite one character
R	Overwrite many characters
:r <file>	Reads <i>file</i> and inserts it after this line
p	Put after the position or line
P	Put before the position or line
C	Rewrite the whole line

Deleting Text

x	Delete character to right of cursor
X	Delete character to left of cursor
D	Delete the rest of line
dd or :d	Delete current line
ndw	Deletes the next <i>n</i> words
ndb	Deletes the previous <i>n</i> words
ndd	Deletes <i>n</i> lines starting with current
:x,yd	Delete lines <i>x</i> through <i>y</i>
:r <file>	Reads <i>file</i> and inserts it after this line
d{nav_cmd}	Overwrite many characters
:r <file>	Reads <i>file</i> and inserts it after this line

Searching

/string	Search forward for string
?string	Search backwards for string
n	Go to next match
N	Go to previous match
:set ic	Ignore case while searching
:set noic	Case-sensitive searching
:set nu	Turn on line numbers
:x,yg/str	Search for <i>str</i> from line <i>x</i> to line <i>y</i>
:g/str/cmd	Run <i>cmd</i> on lines containing <i>str</i>
*	Search for next instance of current word
#	Search for last instance of current word

Replacing

:s/pt/str/flag Replace pattern with string

Flags

g	Replace all occurrences of pattern
c	Confirm replaces
&	Repeat last :s command

Other

u	Undo last change
J	Join lines
nJ	Join next <i>n</i> lines
.	Repeat last command
U	Undo all changes to line
:N	Open split screen
v	Visual mode
ctrl + c	Escape insert mode



