

# vim

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

- [Vim ?????](#)
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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-command-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)

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

In insertion mode the following should be preceded by ESC:

<b>:w</b>	Save
<b>:x</b>	Save & Exit
<b>:q</b>	Exit if no changes made
<b>:q!</b>	Exit & discard any changes

## Cursor Navigation

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

## Inserting Text

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

## Deleting Text

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

## Searching

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

## Replacing

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

### Flags

<b>g</b>	Replace all occurrences of pattern
<b>c</b>	Confirm replaces
<b>&amp;</b>	Repeat last :s command

## Other

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



