

Vim

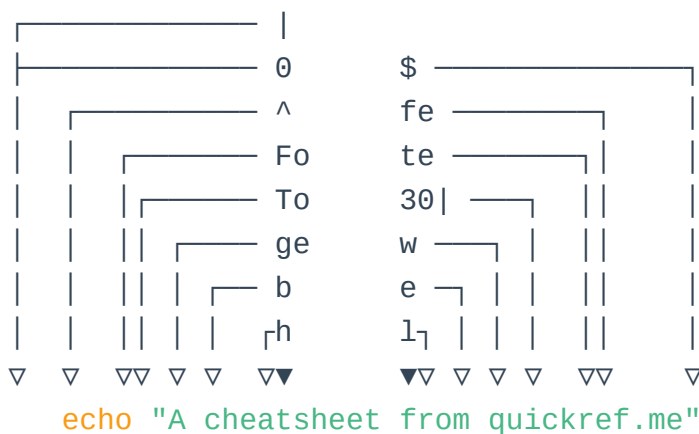
A useful collection of Vim 8.2 quick reference cheat sheets to help you learn vim editor faster.

Getting started

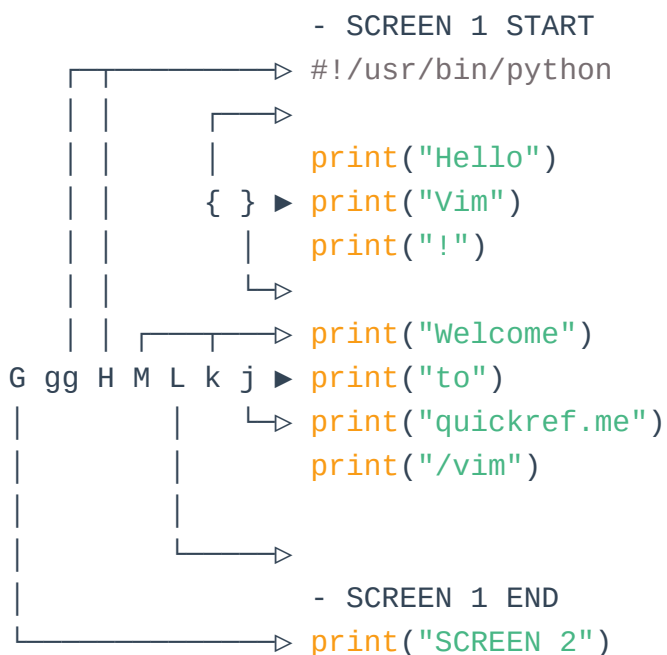
Motion Diagrams

▼/▶ Cursor ▼/▶ Target

Left-right motions



Up-down motions



Motions

h | j | k | l

Arrow keys

<C-u> / <C-d>

Half-page up/down

<C-b> / <C-f>

Page up/down

Words

b / w

Previous/Next word

ge / e

Previous/Next end of word

Line

0 (zero) / \$

Start/End of line

^

Start of line (non-blank)

Character

Fe / fe

Move to previous/next e

To / to

Move before/after previous/next o

| / n|

Go to first/nth column

Document

gg / G

First/Last line

:n | nG

Go to line n

} / {

Next/Previous empty line

Window

H / M / L

Top/Middle/Bottom screen

zt / zz / zb

Top/Center/Bottom this line

Insert Mode

i / a

Insert before/after cursor

I / A

Insert start/end of line

o / O (letter)

Insert new line below/above

s / S

Delete char/line and insert

C

Change to end of line

ni

Insert at last insert point

g +

insert at last insert point

Esc | <C - [>

Exit insert mode

Saving and Exiting

:w

Save

:q

Close file

:wq | :x | ZZ

Save and quit

:wqa

Save and quit all files

:q! | ZQ

Force quit

:qa

Close all files

:qa!

Force quit all files

:w new.txt

Write to **new.txt**

:sav new.txt

Save and edit **new.txt**

:w !sudo tee %

Write to readonly file

Normal Mode

r

Replace one character

R

Enter Replace mode

u / 3u

Undo changes **1 / 3** times

U

Undo changes on one line

J

Join with next line

<C - r> / 5 <C - r>

Redo changes **1 / 5** times

Cut and paste

x

Delete character (Cut)

p / P

Paste after/before

xp

Swap two characters

D

Delete to end of line (Cut)

dw

Delete word (Cut)

dd

Delete line (Cut)

`ddp`

Swap two lines

`yy`

Yank line (Copy)

`"*p | "+p`

Paste from system clipboard

`"*y | "+y`

Paste to system clipboard

In visual mode

`d | x`

Delete selection (Cut)

`s`

Replace selection

`v`

Yank selection (Copy)

Repeating

`.`

Repeat last command

`;`Repeat latest `f`, `t`, `F` or `T``,`Repeat latest `f`, `t`, `F` or `T` reversed`&`Repeat last `:s``@:`

Repeat a command-line command

Visual mode

`v`

Enter visual mode

`V`

Enter visual line mode

`<C-v>`

Enter visual block mode

`ggVG`

Select all text

`> / <`

Shift text right/left

Macros

`qi`Record macro `i``q`

Stop recording macro

`@i`Run macro `i``7@i`Run macro `i` 7 times`@@`

Repeat last macro

Operators

d

Usage

W

Operator

Motion

Combine operators with motions to use them

Available Operators

d	Delete
---	--------

y	Yank (copy)
---	-------------

c	Change (delete then insert)
---	-----------------------------

p	Paste
---	-------

=	Formats code
---	--------------

g~	Toggle case
----	-------------

gU	Uppercase
----	-----------

gu	Lowercase
----	-----------

>	Indent right
---	--------------

<	Indent left
---	-------------

!	Filter through external program
---	---------------------------------

Examples

Combination

Description

dd	Delete current line
----	---------------------

dj	Delete two lines
----	------------------

dw	Delete to next word
----	---------------------

db	Delete to beginning of word
----	-----------------------------

dfa	Delete until a char
-----	---------------------

d/hello Combination	Delete until hello Description
cc	Change current line
yy	Copy current line
>j	Indent 2 lines
ggdG	Delete a complete document
gg=G	Indent a complete document

Counts	
[count] <operator> <motion> <operator> [count] <motion>	
2dd	Delete 2 lines
6yy	Copy 6 lines
d3w	Delete 3 words
d5j	Delete 5 lines downwards
>4k	Indent 4 lines upwards

Text objects

Usage		
v	i / a	p
Operator	inner / around	Text object
Operate with an <u>operator</u> inner or around text blocks		

Text objects	
p	Paragraph
w	Word
W	WORD (surrounded by whitespace)

s	Sentence
[({<	A [], (), or {} block
])}>	A [], (), or {} block
""`	A quoted string
b	A block [(
B	A block in [{
t	A HTML tag block
See :help text-objects	

Delete	
diw	Delete inner word
dis	Delete inner sentence
di"	Delete in quotes
da"	Delete in quotes (including quotes)
dip	Delete a paragraph

Selections	
vi"	Select inner quotes " <u>...</u> "
va"	Select quotes " <u>...</u> "
vi[Select inner brackets [<u>...</u>]
va[Select brackets [<u>...</u>].
viw	Select inner word
vip	Select inner paragraph
vipip	Select more paragraph

Misc	
ciw	Change inner word
ci"	Change inner quotes
cit	Change inner tags (HTML)

cip

Change inner paragraph

yip

Yank inner paragraph

yap

Yank paragraph (including newline)

Multiple files

Buffers

:e file

Edit a file in a new buffer

:bn

Go to the next buffer

:bp

Go to the previous buffer

:bd

Remove file from buffer list

:b 5

Open buffer #5

:b file

Go to a buffer by file

:ls

List all open buffers

:sp file

Open and split window

:vs file

Open and vertically split window

:hid

Hide this buffer

:wn

Write file and move to next

:tab ba

Edit all buffers as tabs

Windows

<C-w> s

Split window

<C-w> v

Split window vertically

<C-w> w

Switch windows

<C-w> q

Quit a window

<C-w> T

Break out into a new tab

<C-w> x

Swap current with next

<C-w>	- / +	Decrease/Increase height
<C-w>	< / >	Decrease/Increase width
<C-w>		Max out the width
<C-w>	=	Equally high and wide
<C-w>	h / l	Go to the left/right window
<C-w>	j / k	Go to the up/down window

Tabs

:tabe [file]	Edit file in a new tab
:tabf [file]	Open if exists in new tab
:tabc	Close current tab
:tabo	Close other tabs
:tabs	List all tabs
:tabr	Go to first tab
:tabl	Go to last tab
:tabm 0	Move to position 0
:tabn	Go to next tab
:tabp	Go to previous tab

Normal mode

gt	Go to next tab
gT	Go to previous tab
2gt	Go to tab number 2

Search and Replace

Search

/foo	Search forward
------	----------------

/foo\c

Search forward (case insensitive)

?foo

Search backward

/\v\d+

Search with [regex](#)

n

Next matching search pattern

N

Previous match

*

Search for current word forward

#

Search for current word backward

Replace LINE

:[\[orange\]](#)s/{pattern}/{str}/{flags]

:s/old/new

Replace first

:s/old/new/g

Replace all

:s/\vold/new/g

Replace all with [regex](#)

:s/old/new/gc

replace all (Confirm)

:s/old/new/i

Ignore case replace first

:2,6s/old/new/g

Replace between lines 2-6

Replace FILE

:%s/{pattern}/{str}/{flags]

:%s/old/new

Replace first

:%s/old/new/g

Replace all

:%s/old/new/gc

Replace all (Confirm)

:%s/old/new/gi

Replace all (ignore case)

:%s/\vold/new/g

Replace all with [regex](#)

Ranges

%

Entire file

'<', '>'

Current selection

5

Line 5

5,10	Lines 5 to 10
\$	Last line
2,\$	Lines 2 to Last
.	Current line
,3	Next 3 lines
-3,	Forward 3 lines

Global command

:[range]g/{pattern}/{command}	
:g/foo/d	Delete lines containing foo
:g!/foo/d	Delete lines not containing foo
:g/^\s*\$/d	Delete all blank lines
:g/foo/t\$	Copy lines containing foo to EOF
:g/foo/m\$	Move lines containing foo to EOF
:g/^/m0	Reverse a file
:g/^/t.	Duplicate every line

Inverse :g

:[range]v/{pattern}/{command}	
:v/foo/d	Delete lines not containing foo (also :g!/foo/d)

Flags

g	Replace all occurrences
i	Ignore case
I	Don't ignore case
c	Confirm each substitution

Substitute expression (magic)

& \0	Replace with the whole matched
------	--------------------------------

\1...\9

Replace with the group 0-9

\u

Uppercase next letter

\U

Uppercase following characters

\l

Lowercase next letter

\L

Lowercase following characters

\e

End of \u, \U, \l and \L

\E

End of \u, \U, \l and \L

Examples

:s/a\ b/xxx\0xxx/g	# Modifies "a b" to "xxxaxxx xxxbxxx"
:s/test/\U& file/	# Modifies "test" to "TEST FILE"
:s/\(test\)/\U\1e file/	# Modifies "test" to "TEST file"
:s/\v([abc])([efg])/\2\1/g	# Modifies "af fa bg" to "fa fa gb"
:s/\v\w+/\u\0/g	# Modifies "bla bla" to "Bla Bla"
:s/\v([ab]) ([cd])/\1x/g	# Modifies "a b c d" to "ax bx x x"
:%s/.*/\L&/	# Modifies "HTML" to "html"
:s/\v<(.)\w*/\u\1\L\2/g	# Make every first letter of a word
uppercase	
:%s/^\(.*\)\n\1/\1/	# Remove duplicate lines
:%s/<\/=\\(\\w\\+\\)>/\U&/g	# Convert HTML-Tags to uppercase
:g/^pattern/s/\$/mytext	# Find and append text to the end
:g/pattern/norm! @i	# Run a macro on matching lines
/^\\(.*\\)\\(\\r\\?\\n\\1\\)\\+>	# View the duplicates lines
:v/./,./-j	# Compress blank lines into a blank line
:g/<p1>/,/<p2>/d	# Delete inclusively from <p1> to <p2>

Vimdiff

Usage

```
$ vimdiff file1 file2 [file3]
$ vim -d file1 file2 [file3]
```

Editing

:[\[range\]](#)[diffget](#) [[bufspec](#)]
:[\[range\]](#)[diffput](#) [[bufspec](#)]

[do](#) / [:diffget](#)

Obtain (get) difference

[dp](#) / [:diffput](#)

Put difference

[:dif](#)

Re-scan differences

[:diffo](#)

Switch off diff mode

[:1,\\$+1diffget](#)

Get all differences

[ZQ](#)

Quit without changes

See: [Ranges](#)

Folds

[zo](#) / [zO](#)

Open

[zc](#) / [zC](#)

Close

[za](#) / [zA](#)

Toggle

[zv](#)

Open folds for this line

[zM](#)

Close all

[zR](#)

Open all

[zm](#)

Fold more (foldlevel += 1)

[zr](#)

Fold less (foldlevel -= 1)

[zx](#)

Update folds

Jumping

[\]c](#)

Next difference

[\[c](#)

Previous difference

Miscellaneous

`vU`

Uppercase character

`vu`

Lowercase character

`~`

Toggle case character

`viw U`

Uppercase word

`viw u`

Lowercase word

`viw ~`

Toggle case word

`VU / gUU`

Uppercase line

`Vu / guu`

Lowercase line

`V~ / g~~`

Toggle case line

`gggUG`

Uppercase all text

`ggguG`

Lowercase all text

`ggg~G`

Toggle case all text

Jumping

`<C-o>`

Go back to previous

`<C-i>`

Go forward

`gf`

Go to file in cursor

`ga`

Display hex, ascii value

Misc command-lines

`:h`

Help open help view

`:edit!`

Reload current file

`:2,8m0`

Move lines 2-8 to 0

`:noh`

Clear search highlights

`:sort`

Sort lines

`:ter`

Open a terminal window

`:set paste`

Enable Insert Paste sub-mode

`:set nopaste`

disable Insert Paste sub-mode

`:cq`

Exiting with an error
(aborting Git)

Navigating

`%`

Nearest/matching `{[(())]}`

`[(| [{ | [<`

Previous `(, {` or `<`

`]) |]{ |]>`

Next `), }` or `>`

`[m`

Previous method start

`[M`

Previous method end

Counters

`<C-a>`

Increase number

`<C-x>`

Decrease number

Tags

`:tag Classname`

Jump to first definition of Classname

`<C-]>`

Jump to definition

`g]`

See all definitions

`<C-t>`

Go back to last tag

`<C-o> <C-i>`

Back/forward

`:tselect Classname`

Find definitions of Classname

`:tjump Classname`

Find definitions of Classname (auto-select 1st)

Formatting

`:ce 8`

Center lines between 8 columns

`:ri 4`

Right-align lines at 4 columns

`:le`

Left-align lines

See `:help formatting`

Marks

``^`

Last position of cursor in insert mode

``.`

Last change in current buffer

----- change in current buffer -----

<code>`"</code>	Last exited current buffer
<code>`0</code>	In last file edited
<code>``</code>	Back to line in current buffer where jumped from
<code>``</code>	Back to position in current buffer where jumped from
<code>`[</code>	To beginning of previously changed or yanked text
<code>`]</code>	To end of previously changed or yanked text
<code>`<</code>	To beginning of last visual selection
<code>`></code>	To end of last visual selection
<code>ma</code>	Mark this cursor position as a
<code>`a</code>	Jump to the cursor position a
<code>'a</code>	Jump to the beginning of the line with position a
<code>d'a</code>	Delete from current line to line of mark a
<code>d`a</code>	Delete from current position to position of mark a
<code>c'a</code>	Change text from current line to line of a
<code>y`a</code>	Yank text from current position to position of a
<code>:marks</code>	List all current marks
<code>:delm a</code>	Delete mark a
<code>:delm a-d</code>	Delete marks a, b, c, d
<code>:delm abc</code>	Delete marks a, b, c

Calculator

<code><C-r> = 7*7</code>	Shows the result
<code><C-r> = 10/2</code>	Shows the result
Do this in INSERT mode	

Shell

<code>:!<shell></code>	Interpret Shell Command
<code>:r!<shell></code>	Read in output of shell

`:r!date`

Insert date

`:!!date`

Replace current line with date

Command line

`<C-r><C-w>`

Insert current word into the command line

`<C-r>"`

Paste from " register

`<C-x><C-f>`

Auto-completion of path in insert mode

Tricks

Remove duplicate lines

```
:sort | %!uniq -u
```

To number the lines in the file

```
:%!cat -n
```

Copy whole doc to clipboard

```
:%w !pbcopy          # Mac OS X
:%w !xclip -i -sel c  # GNU/Linux
:%w !xsel -i -b       # GNU/Linux
```

Also see

[Devhints](#) (devhints.io)

[Vim cheatsheet](#) (vim.rotrr.com)

[Vim documentation](#) (vimdoc.sourceforge.net)

[Interactive Vim tutorial](#) (openvim.com)

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