Vim Cheat Sheet for Programmers

Esc Normal

Revision 2.0 Sept. 11, 2011 — Vim 7.3+ `:version`

http://michael.PeopleOfHonorOnly.com/vim/

HOW-TO *make Vim not suck Out of the Box:* **:help statusline** :set nocompatible ruler laststatus=2 showcmd showmode number — **Search** :set incsearch ignorecase smartcase hlsearch — **Remove useless splash screen** :set shortmess+=I

Best tips: http://vim.wikia.com/ — **Best scripts:** http://www.vim.org/scripts/index.php

:map <F9> :e $HOME/_vimrc<CR> — :map <F6> :so $HOME/_vimrc<CR>

	Ctrl `	Ctrl 1	Ctrl @	Ctrl 3	Ctrl 4	Ctrl 5	Ctrl ^	Ctrl 7	Ctrl 8	Ctrl 9	Ctrl 0	Ctrl _	Ctrl =
	~ toggle case	! extern filter	@• play macro	# prev identifier	$ →|	% goto match	^ soft ↤	& repeat :s	* next identifier	(begin sentence	) end sentence	_ cur line	+ ↓
	`• goto mark	1	2	3	4	5	6	7	8	9	0 hard ↤	- ↑	= auto-format
Tab		14 block select	^w• window…	scroll line ↑	12 :redo	10 ctags return	scroll line ↓	half page ↑	Ctrl I	prev mark	9 ↑	Normal	ctags identifier
		Q ex mode	W WORD ↘	E end WORD ↘	R Replace	T• ← until char	Y copy line	U undo line	I insert ↤	O open ⤒	P paste ⤒	{ ↖ paragraph	} paragraph ↘
		q• record macro	w word ↘	e end word ↘	r replace char	t• until char →	y copy	u undo	i ↤ insert	o open ↓	p paste ↓	[• misc.	]• misc.
Caps		7 incr. #		10 half page ↓	page ↓	file/cursor info	Ctrl H	15 Ctrl J		redraw	Ctrl ;	Ctrl '	Ctrl \
		A append →|	S subst line	D del →|	F• ← find char	G goto eof / goto line#	H Top screen	J Join lines	K man page identifier	L Bottom screen	: cmd line	"• register	| ↤ goto col#
		a append →|	s subst char	d del	f• find char →	g• extra	h ←	j ↓	k ↑	l →	; "next" f/F/t/T	'• goto mark ↤	\•
Ctrl ^		:suspend	7,11 decr. #	Normal / Cancel	block select	page ↑	9,16 ↓	15 Ctrl M	Ctrl ,	Ctrl .	Ctrl /		
		Z• quit	X ← del char	C change →|	V select lines	B ↖ WORD	N "prev" find	M Middle screen	< undent	> indent	?• find ↖		
Shift ⇧		z• extra	x del char →	c change	v select chars	b ↖ word	n find "next"	m• set mark	, "prev" f/F/t/T	. repeat cmd	/• find ↘		

Unused & Duplicate keys

\ Ctrl-K Ctrl-S (free)
Ctrl-L (redraw)
13 ` near dup of '
14 Ctrl-Q = Ctrl-V
15 Ctrl-J = Ctrl-M = ^N

16 The search direction is relative; **next** is the initial direction, **previous** is the opposite direction. `n` `;` repeat same initial direction find. `N` `,` repeat opposite initial direction find. **Note**: `;` `,` only searches cursor line, `n` `N` searches buffer.

Legend:

Macro	Register name (0-9a-zA-Z) required
Op	Motion req.; act between cursor & dst
Cmd	Command
Ins	Command and enter insert mode
Move	Moves cursor or defines range for op
Find	Search (↖ = reverse, ↘ = forward)
tag	ctags / diffs / folding
Code	Code formatting, whitespace, etc.
Extra	Extended functionality; req. extra chars
•	Char arg req. `g z Z ^w ' " ` ...`

Modes

`:help modes`

n	Normal	Esc ^[^c
i	Insert	a i r s
v	Visual	v V ^v ^q
o	Op pending	c d y < >
c	Command Line	: / ? !

word `Foo ( src , ß dst , ß len );`

Note: There is no whitespace in-between 'Foo(src,' but before/after 'dst,'

WORD `Foo ( src , ß dst , ß len );`

Startup

vim <filename> +123	goto line 123
vim <file> … -t Foo	edit at tag 'Foo'
vim <file> … -c "/Foo"	cmd: find 'Foo' & edit
GUI vim -g or gvim	start GUI ver.
GUI Linux	:set guifont=ProggyTinyTT\ 12
GUI OSX	:set guifont=ProggyTiny\:h11
diff gvimdiff <file1> <file2> [<file3>]	

bug **Broken Keys** ~~Ctrl-I = Tab, Ctrl-[= ESC~~

Vim is *still* **unable** to map certain keys for your own use…

§ **Caps, Ctrl-1, Ctrl-Shift-1, Ctrl-I, Ctrl-\, etc.**

0 *See:* `src/ops.c -c "/valid_yank_reg"` *for "• reg. names*

6 *See:* `src/normal.c -c "/nv_cmds"` *for g• extra cmds*

11 *See:* `src/edit.c -c "/ctrl_x_msgs"` *for ^x• insert cmds*

:help cmdline

:w	save	:r file	insert file
:q	quit	:gui	switch to GUI
:e <file>	edit file in new buffer	:q!	quit w/o save
:source %	**exec cmds in cur file**		
:exec '...'	**do cmd**		

:help movement

soft ^ ↤	**Start of Line**	1st non-whitespace	
hard 0 ↤	**Start of Line**	column 0	
$ →|	**End of Line**		
|	move col 0	#|	**move col #**
^b	page ↑	^f	page ↓
^u	½ page ↑	^d	½ page ↓
^e	scroll line ↑	^y	scroll line ↓
1g	start of file	0g	end of file
#g	**goto line #**	G	**end of file**
[[	**begin this func {**		
]]	**begin next func {**		
:set matchpairs=(:),{:},[:],<:>,?:\:			
%	**goto matching { } < > [ ]**		

:help range

:s/Foo/Bar	find Foo replace w/ Bar
:s/Foo/Bar/g	...all instances on one line
:%s/Foo/Bar	**apply to whole file**
.,.+#	**cur line, cur line + # lines**
$	**last line**
'<	start of select
'>	end of select

Tags

:ts	list active tags
^]	**jump to tag under cursor**
^t	**restore cursor before tag jump**
^p	**complete word**
:ta Foo	manual jump to tag 'Foo'

Diff

[c	**prev diff**	:hi DiffAdd	guifg=#rrggbb
]c	**next diff**	:hi DiffChange	guibg=#rrggbb
:diffupdate		:hi DiffText	gui=none
	resync	:hi DiffDelete	

Folding

zR	**fold remove**
zo	fold open
zc	fold close
zi	**invert all**
zr	fold reduce
zm	fold more

Changes

:changes	
g;	older change
g,	newer change

Syntax

:syntax enable	
:set filetype=	
c cpp sh make perl python	

Note: chose only ONE type!

:help recording

q•	start recording
@•	playback
q	stop recording
@@	repeat

Convert <eol>

:set fileformat=	
unix or *dos* or *mac*	
then :w to convert	

Code

= < > << >>

:set backspace=indent,eol,start	allow backspace join lines	:set tabstop=#	set tab stop every #th col
:set shiftwidth=#	indent width for ai	:set expandtab!	toggle hard/soft tabs
:set autoindent!	toggle auto-indent	:set listchars=…	*tab:>-:trail:-,nbsp:%,eol:$*
:set lisp	lisp indent mode	:set list!	toggle whitespace
		:set colorcolumn=80	visible right margin indicator
		noremap + :s/^/\/\//<CR>	block comment

\ :map \ :Explore<CR> manually type <,C,R,>

§0 "• before del/copy/paste to use register

"+x	cut to system clipboard reg. '+'		
"+gP	paste from system clipboard		
1	Number before any action repeats it		
2p	paste twice	3.	repeat thrice
2	Repeat op to act on current line		
yy	copy line	dd	del line
<<	**undent line**	>>	**indent line**
3 #	highlight words under cursor		
4 zz	save & quit	zQ	quit w/o save
5 zz	**center cursor line in window**		
zh	**scroll left**	zl	**scroll right**
zt	scroll top	zb	scroll bottom
§6 gg	top of file		
gf	**open file under cursor**		
7 ^a	incr # under cursor (Dec / Hex)		
^x	decr # under cursor (Dec / Hex)		
8 *	start a "new" search		

Insert mode

9 ^p	prev auto-complete	^n	next
10 ^d	**undent**	^t	**indent**
§11 ^x• ^f	filename completion		
^s	spelling	:set spell!	
^k	dictionary	]s	**next bad**
^t	thesaurus	:help spell	
12 ^r•	paste register 0-9a-zA-Z or …		
+	**clipboard** (or '*')	:help c_CTRL-R	
"	last del/copy	%	filename

:set numbers!	toggle line numbers
:set wrap!	toggle linewrap display
:set showmatch	highlite matching ()
noremap - :s/^\/\///<CR>	uncomment

:buffer

:buffers	list files
:new	blank file/buffer
:bn	**next file**
:bp	prev file
:bd	**close file**
:bd!	force close
:set lines=#	
:set columns=#	
:winpos # #	GUI

Windows

:help windows

^w• or :wincmd •

w	**:switch to next**	h	move to win ←
c	**:close!**	j	move to win ↓
n	:new	k	move to win ↑
s	**:split** horz.	l	move to win →
v	:vsplit vertical		
o	:only maximize		
=	**all same size**		

:sp [<filename>] *edit in split window*

Cursor Bookmarks

:marks ` ' ^o

ma	mark local 'a'
'A	goto global 'A'
''	**prev location**

File / Directory

:Explore or :e .

:set browsedir=…

one of *buffer last*