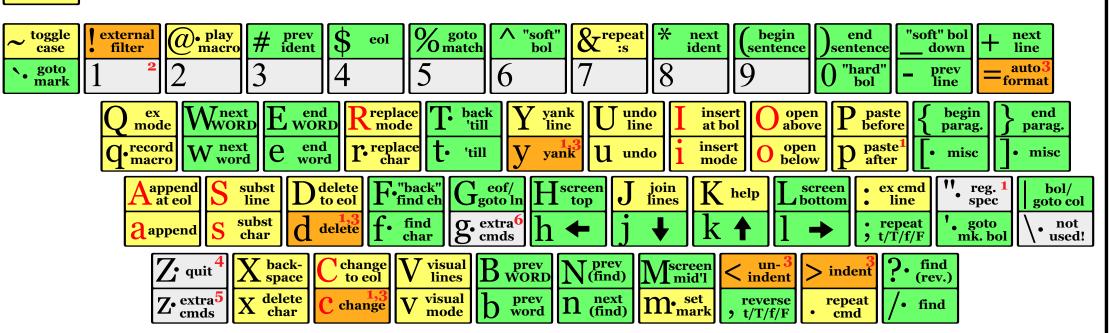
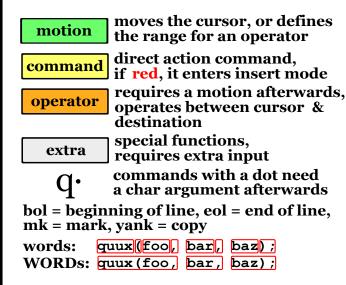
Esc

normal mode

vi / vim graphical cheat sheet





Main command line commands ('ex'): :w (save), :q (quit), :q! (quit w/o saving) :e f (open file f), :%s/x/y/g (replace 'x' by 'y' filewide), :h (help in vim), :new (new file in vim),

Other important commands: CTRL-R: redo (vim), CTRL-F/-B: page up/down, CTRL-E/-Y: scroll line up/down, CTRL-V: block-visual mode (vim only)

Visual mode: Move around and type operator to act on selected region (vim only)

Notes:

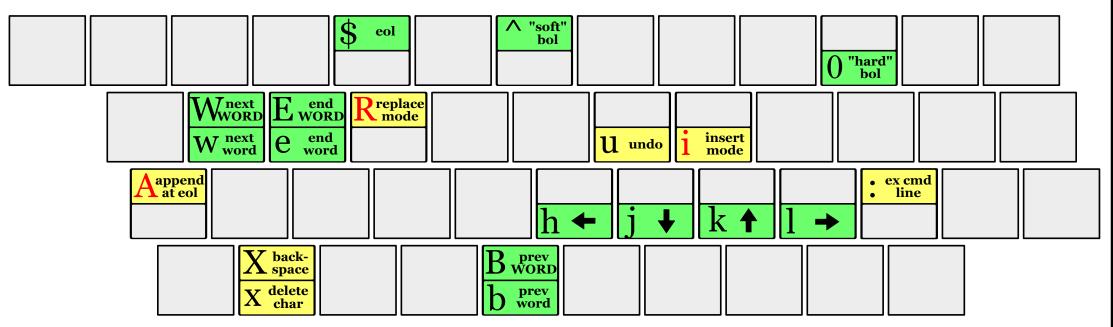
- (1) use "x before a yank/paste/del command to use that register ('clipboard') (x=a..z,*) (e.g.: "ay\$ to copy rest of line to reg 'a')
- (2) type in a number before any action to repeat it that number of times (e.g.: 2p, d2w, 5i, d4j)
- (3) duplicate operator to act on current line (dd = delete line, >> = indent line)
- (4) ZZ to save & quit, ZQ to quit w/o saving
- (5) zt: scroll cursor to top, zb: bottom, zz: center
- (6) gg: top of file (vim only), gf: open file under cursor (vim only)

For a graphical vi/vim tutorial & more tips, go to www.viemu.com - home of ViEmu, vi/vim emulation for Microsoft Visual Studio

vi/vim lesson 1 - basic editing

motionmoves the cursor, or definesthe range for an operatorcommandif red, it enters insert mode





Basics:

h j k l are vi/vim cursor keys – use them as they are much closer than regular cursor keys!

Use i to enter insert mode, cursor turns from a block into a vertical line, and you can type in text. Use Esc to return to normal mode.

Use \mathbf{X} to delete the current character, or \mathbf{X} to delete the one to the left

Use **A** to go insert text at the end of the line (wherever you are in the line!)

(Note: insert mode is actually very similar to a regular editor, you can use cursor/navigation keys, backspace, delete...)

Extras:

u to undo the last action – traditional vi has a single level, while vim supports unlimited undo (CTRL - **R** to redo)

0 jumps directly to the beginning of the line, **\$** to the end, and **^** to the first non-blank

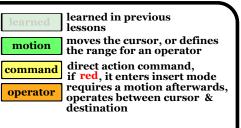
Use **w b e** to move along 'words'. A 'word' is a sequence of all alphanumeric or punctuation signs: quux(foo, bar, bar);

Use **WBE** to move along WORDs. A 'WORD' is a sequence of any non-blank characters: guux(foo, bar, baz);

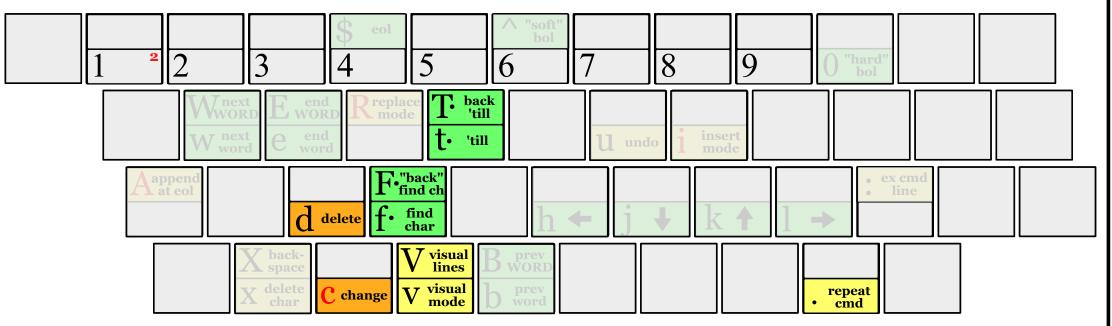
Use **R** to enter insert mode with an overstrike cursor, which types over existing characters.

: w and press enter to save, **: q** and enter to quit.

vi/vim lesson 2 - operators & repetition







Basics:

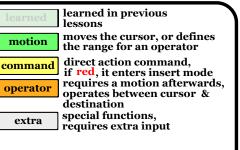
- **f**, followed by another key, moves the cursor to the next instance of that character on the current line, **F** does the same backwards.
- **t** and **T** do the same, but they stop right before the character.
- **d** (delete), followed, by any motion deletes the text between the cursor and that motion's destination $\mathbf{d} \cdot \mathbf{w}$, $\mathbf{d} \cdot \mathbf{f} \cdot \mathbf{w}$...).
- **c** (change) does the same, but leaves you in insert mode.
- Some motions, such as **j** and **k**, are linewise deletion includes the full start/end lines.
- . repeats the last editing action: text input, delete or change, etc... motion is recalculated at the new place.

Extras:

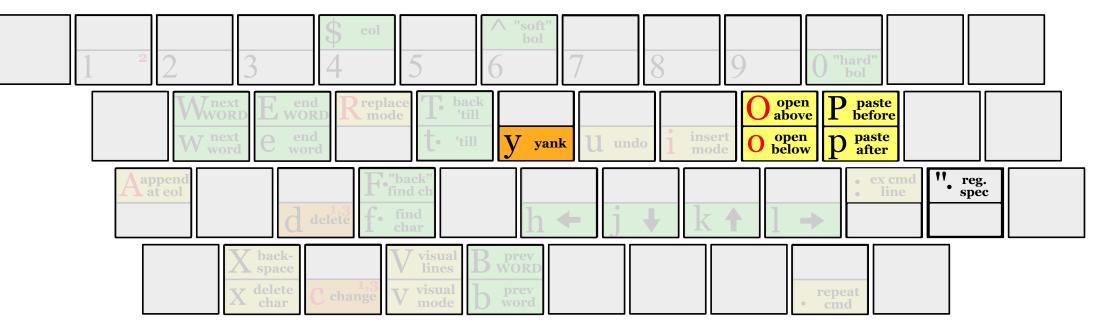
Prepend a count to any command/motion to repeat it that number of times:

- **d 2 w** to delete up to the second word.
- \mathbf{d} **2** \mathbf{t} , to delete up to but not including the second comma.
- **2** i repeats the text after you press (Esc) to finish the input session.
- Repeat operator (**c c** or **d d**) to operate on the current line.
- Only in vim, v enters visual mode. Move around with motions, the text will be highlighted. Press an operator to operate on that selection.
- **V** enters visual-lines mode like **v**, but selecting whole lines.
- CTRL **v** selects rectangular blocks.

vi/vim lesson 3 - yank & paste







Basics

Use **y** followed by any motion to 'yank' (copy).

Use **p** to paste after (if charwise, to the right, if linewise, below).

Use **P** to paste before.

y y copies the current line.

y also works in visual mode.

Text deleted with **d**, **c**, **x**... is also copied!

Extras

" and an **a** - **z** character before any yank/delete/paste command chooses a register.

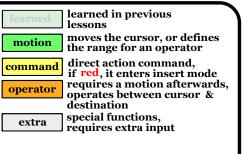
An A - Z register before yank/delete means "append-copy".

"* or "+ select the system clipboard.

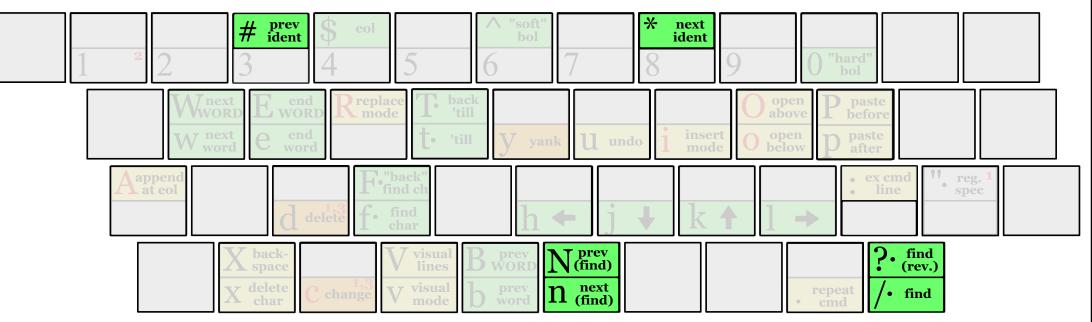
o enters insert mode in a new empty line below the current one.

O does the same above the current line.

vi/vim lesson 4 - searching







Basics:

/ is the basic search motion – type the text you are searching for after the slash, and then press return. Being a motion, you can use this after an operator, or in visual mode.

? does the same, backwards.

n repeats the last search in the same direction, **N** repeats it in the reverse direction

Be careful, because the search target is interpreted as a regular expression: a*b means zero or more 'a's followed by a 'b', ^abc means 'abc' at the beginning of a line, [0-9] looks for the next digit, etc...

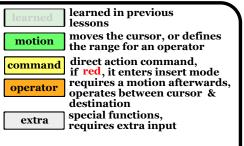
Extras:

The following very useful motions work only in vim:

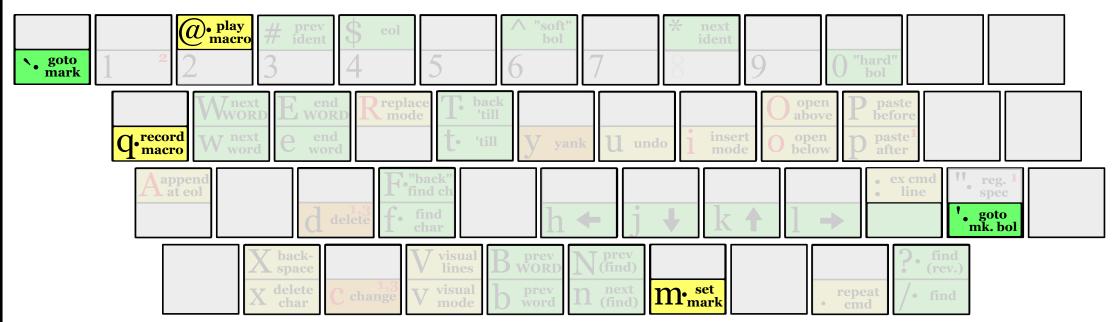
* searches forward for the next instance of the identifier under the cursor.

does the same backwards.

vi/vim lesson 5 - marks & macros





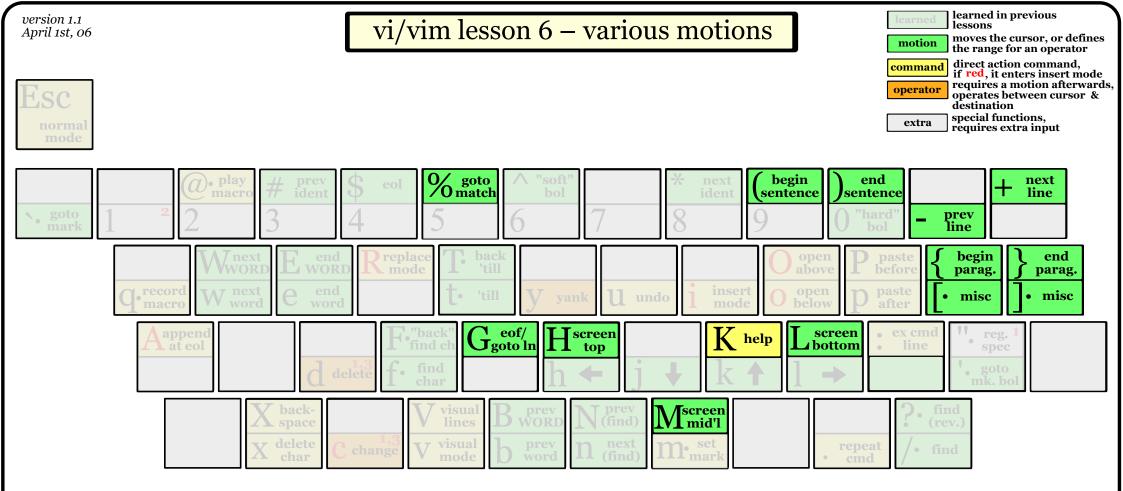


Marks:

- Use **m** followed by an **a Z** character to set a mark.
- Use Solowed by a character to go to that mark.
- Use **use and a character to go to the first non-blank in that line.**
- A Z marks are global, a z per-buffer.
- **refers to the position of the last modification.**

Macros:

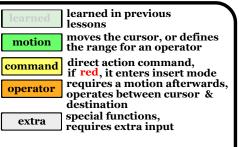
- Use **q** followed by an **a z** character to start recording.
- Use **q** afterwards to stop recording.
- @ followed by a character replays that macro.
- @ @ to repeat the last macro played.



- **%** jumps between matching pairs of '(' ')', '[', ']', etc...
- **H M L** jump directly to the top/middle/bottom of the screen.
- **G** jumps to the end of the file, or to the line # typed before it.
- / + jump to the previous/next line.
- **K**, not technically a motion, jumps to the help for the word under the cursor: vim help, man page under unix, etc...

- **(**and **)** jump to the beginning/end of the current sentence.
- **{** and **}** jump to the previous/next empty line.
- **[**] **jumps to the previous '{' in column 0.**
-] jumps to the next '{' in column 0.

vi/vim lesson 7 - various commands





∼ toggle case case goto mark	2 2 2 2	y ro 2	S eol	% goto match	$\frac{1}{bol}$	7	× next ident	begin sentence) end sentence	\top h	ext ine uto
mark		ext or E wo	d Rrepla	ce e T. back 'till	k Y yanl line	k		9 O ope abov	n ve P past befor	e f begin	end parag.
		ext ord en wor	rd L • cha	r t. 'till	y yan					e ¹ [• misc]•	misc
	Aappend at eol S	line D	to eol	back" ind ch find char	oto ln 11	top J	join lines K		ereen ttom	cmd'' reg. 1 spec'. goto mk. bol	
		X back- space X delete char	C change C change	V visual lines V visual mode	B word Prev word	prev (find)next (find)	M ^{screen} mid'l m. set mark	indent	> indent repeat • cmd	7. find (rev.)	

Basics:

- **J** joins the current line with the next one, or all the lines in the current visual selection.
- **r** followed by any character replaces the current character with that one.
- C is shorthand for c \$, changes to end of line.
- **D** is shorthand for **d \$** , deletes to end of line.
- **Y** is shorthand for **y y**, yanks the whole line.
- s deletes the character under the cursor and enters insert mode.
- **S** clears the current line and enters insert mode.

Extras:

- > and a motion to indent one or more lines.
- and a motion to unindent.
- = and a motion to reformat a range of text.

All of them work in visual mode, or can be repeated (> >, etc...) to operate on the current line.

toggles the case of the character under the cursor.

Now go grab the full cheat sheet and learn the rest. Start with I a , and ;. Piece of cake!