$Vim for Muggles^{TM}$

The Cheatsheet

CHEATSHEET CONVENTIONS • Key combination – several keys pressed together, e.g. ⟨CTRL>+A _N means ⟨CTRL>+⟨Shift>+a _N ⟩ • Key sequence – several keys or combinations pressed gradually, e.g ⟨CTRL>+w _N means a press of combination ⟨CTRL>+w _N and than a key w _N ⟩ • Working mode – it is displayed bottom right: ∘ foo _N – Normal mode ∘ foo _N – Usual mode ∘ foo _N – Visual mode ∘ foo _N – Command line mode	 Flags:c - confirmation, g - for whole line, p - print, without flag changes only first occurence Cancel highlight::nohlsearch Search in more files::vimgrep /pattern/g f₁ f₂f_n REGULAR EXPRESSIONS Begin/end of:
BASIC CONTROL • Repeat command with typing number $n \times$ of repetitions before	• Ranges: [abcd] \approx [a-d], [a-zA-Z] \approx \a, [0-9] \approx \d
command, e.g. $5x_N$ deletes 5 chars from cursor position. Option :set showcmd shows command sequence in bottom right. • Help: :help topic, use Tab_{ex} for command completion. • Similar commands uses same keys, e.g. f_N/F_N , f_N/F_N (see below). The difference is direction or range of operation. • Repeat last:	 Ignored chars and ranges:
Alone :set displays current options.	• Start vim: vim file ₁ file ₂
• Shortening of options:: set ignorecase \approx :se ic • More ex-commands together:: command ₁ command ₂ • Comparison of two files: vimdiff file ₁ file ₂ EDIT AND SAVE	 Display buffers::1s ≈ :files (numbered) Switch to next/previous file::next / :prev Switch to first/last file::rewind ≈ :first / :last Perform mass command for all files::bufdo command
• Edit: :edit file	WINDOWS
Open new empty file: Save/append file: Save/append lines n to m: Save and quit: Quit without save: Quit without save: Quit and save when file was changed: Save and file: Save and quit: Save and	New window:
SEARCH AND REPLACE	CTTL>+<pageup></pageup> • Move after the fold n::tabm n
• Ignore case:: set ignore_case, opposite :set noic • Repeat last search:	 Perform mass command: :tabdo command Change tab design: :set tabline Open name of file under cursor in new tab: PROGRAMMER SUPPORT Run make: :make Jump to next/previous error: :cprevious / :cnext List all errors: :clist Add window with list of errors: :copen

NORMAL MODE

SYNTAX

[n+]**operator** + **motion**: operate during motion n times [n+]**operator** + **textobject**:...operate on text object n times [n+](operator * 2): operate on current line n times [n+]action: perform action n times Example $\fbox{ \textbf{c} \ \textbf{G}_{N} \ }$ change from here to end of file 3 dd_N delete 3 lines

ACTIONS

2 gq ap_N.....format 2 paragraphs

• Repeat last command:
• Undo: u_N , line $\overline{U_N}$
• Replace character by x:
• Enter replace mode:
• Enter insert mode before/after current character: i _N / a _N
• Enter insert mode start/end of the line: I_N / $\overline{A_N}$
• Add new line:
• Join lines: J_N , without spaces gJ_N
• Substitute: character s_N , line s_N
• Paste (put) register:
• Delete character: x_N , before cursor x_N
• Change to end of line:
• Increment/Decrement number: . <ctrl>+a_N / <ctrl>+x_N</ctrl></ctrl>

OPERATORS

• Change: c_N , delete d_N
• Copy (yank):
• Filter through an external program:
• Format: gq _N
• Shift left/right:
• Make lowercase/uppercase: gu_N / gU_N , swap case g_N

MOTIONS

 Matching bracket/parenthesis:
• Goto line x :
• Goto file percent:
• Repeat last search in the same/reverse direction: n_N / N_N
• Start/End of file:
• Lines up/down:
• Beggining of next/previous line: $+_{N}$ / ${N}$
• Search forward: /pattern / ?pattern
• Up/Down $\frac{1}{2}$ page:/ $\langle CTRL \rangle + u_N$ / $\langle CTRL \rangle + d_N$
• Backwards/Forward a page: (CTRL>+b _N / (CTRL>+f _N
• Top/middle/bottom of visible text: $H_N/M_N/L_N$
HORIZONTAL
• Character right/left: 1_N , h_N
• First/Last character: $\overline{O_N}$ / $\overline{\$_N}$
• First non-blank character:
• Next/Last character x occurrence:
• Before/After character x occurrence: tx_N / Tx_N
• Repeat/Reverse last f_N , t_N , f_N , T_N :

TEXT OBJECTS

• Word/word:
• Sentence: as_N , is_N
• Paragraph: ap _N , ip _N
• Enclosed text $[], <>, (), \{\} \rightarrow enc: \dots aenc_N, aenc_N$
• Quoted text ", "", $\rightarrow quot: \dots aquot_N$ iquot
• XML/HTML tag:

INSERT & REPLACE MODES

	Insert previously inserted text:	
•	Delete word before the cursor: <ctrl>+w , all</ctrl>	<ctrl>+u</ctrl>
•	Find next/previous keyword:/	<ctrl>+pi</ctrl>
•	Insert the contents of register x:	CTRL>+rx
	Indent right/left current line: <ctrl>+t /</ctrl>	
•	Insert character below/above the cursor: <ctrl>+e_i/</ctrl>	<ctrl>+y</ctrl>

•	Enter CTRL-X mode (completion):	<ctrl>+XI</ctrl>
	• Whole lines:	<ctrl>+1</ctrl>
	• Keywords in the current file:	<ctrl>+n</ctrl>
	• Keywords in 'dictionary':	<ctrl>+k₁</ctrl>
	• Vim command-line:	<ctrl>+v </ctrl>
	• File names:	<ctrl>+f</ctrl>

VISUAL MODE

OPERATORS

Normal Mode operators apply to selection. Additionally:

- Block insert/append: (I_V / A_V) text $\langle Esc \rangle_I$
- Perform ex command in selected range: \vdots \rightarrow : '<, '> command

CHANGING SELECTION

Selection can be modified using Normal Mode motions and text

COMMAND LINE MODE

SYNTAX

- xcmd execute on line xx,ycmd from x to line y:.,\$cmd from actual position to the end :%cmd \approx :1,\$cmd for whole file :.,+x cmd $\approx x$: cmd from cursor to next x lines
- \dots , \$--x cmd \dots from current position to x. line from the end
- :/pattern₁/,/pattern₂/cmd .from the first occurrence of line with $pattern_1$ to the first $pattern_2$

COMMANDS

- :global/pattern/[cmd]:.....run cmd on matching lines :read [name]:....insert file below the cursor
- :read !{cmd}:.....execute shell cmd and insert output :substitute/pattern/string/[flags]:....replace matches
- [:copy / :move / :put] + addr: . [...] the lines below addr
- :center / :right / :left:.....align text
- :delete [x]:.....delete lines [into register x]