

CSC2.0 QUICK REFERENCE CARD

Quick Hacks

Ctrl+C Kills Current Command
Ctrl+D Exit or Finished
↑ Scroll though history
sudo !! Execute last command as root
Ctrl+Shift+C Copy
Ctrl+Shift+V Paste
.
.. Up one directory
./<command> Execute command in current dir

Monday

ls list files in directory
cd <directory> change directory
whoami current username
alias <command>='<newcommand>' ... alias command
pwd print working directory
cat <file> read file
cp <file> <copy_of_file> copy file
mv <file> <newfile> move file
rm <file> remove file - forever!
mkdir <dir_name> make directory
grep *pattern* <file> search file for pattern
man <command> the manual for `jcommandj`
sudo <command> EUID of 0 - root for `jcommandj`
ps list current processes, -e or aux
kill <pid> kill process `jpidj`

Tuesday

apt-get install *app* install *app*
adduser *username* add user *username*
deluser *username* delete user *username*
ifconfig configure a network interface
ssh -X -C <username>@<ip_addr> SSH to `jip_addrj`
as `jusernamej`
ssh <ip_addr> SSH to `jip_addrj`
ssh-keygen generate an SSH key
ssh-copy-id <username>@<ip_addr> ..copy SSH key

Insert Mode

^Vc ^Vn insert char *c* literally, decimal value *n*
^Vn insert decimal value of character
^A insert previously inserted text
^@ same as ^A and stop insert → command mode
^Rx ^R^Rx insert content of register *x*, literally
^N ^P text completion before, after cursor
^W delete word before cursor
^U delete all inserted character in current line
^D ^T shift left, right one shift width
^Kc₁c₂ or c₁←c₂ enter digraph {*c*₁, *c*₂}
^Oc execute *c* in temporary command mode
^X^E ^X^Y scroll up, down
<esc> or ^[..... abandon edition → command mode

Search & Substitution

/s↔ ?s↔ search forward, backward for *s*
/s/o↔ ?s?o↔ search fwd, bwd for *s* with offset *o*
n or /↔ repeat forward last search
N or ?↔ repeat backward last search
* .. search backward, forward for word under cursor
g# g* same, but also find partial matches
gd gD .. local, global definition of symbol under cursor
:rs/f/t/x substitute *f* by *t* in range *r*
[*x* : g— all occurrences, c—confirm changes
:rs *x* repeat substitution with new *r* & *x*

Formatting/Filtering

m is movement; leave out for visual mode commands
gqm format *m* (*formatprg*)
gqgq or gqip format current paragraph
= *m* reindent movement *m* (*equalprg*)
:rce *w* center lines in range *r* to width *w*
:rle *i* left align lines in range *r* with indent *i*
:rri *w* right align lines in range *r* to width *w*
!m↔ .. filter lines of movement *m* through command *c*
n! !c↔ filter *n* lines through command *c*
:r!c filter range *r* lines through command *c*
~ switch case and advance cursor
g~m gum gUm ... switch case, lc, uc on movement *m*
<*m* >*m* shift left, right text of movement *m*
n<< n>> shift *n* lines left, right
^A ^X increment/decrement number under cursor

Visual Mode & Text Objects

v V ^V highlight characters, lines, block
o exchange cursor pos with start of highlighting
gv start highlighting on previous visual area
aw as ap select a word, a sentence, a paragraph
ab aB a] a> select a block (), { }, [] < >
at select an html tag
a" a' a' select a quotet string
iw is ip ib iB i] i> it i" i' i' .. select “inner”
n> n< = indent/unindent *n* levels, reindent

Undoing, Repeating & Registers

u U undo last command, restore last changed line
. ^R repeat last changes, redo last undo
n. repeat last changes with count replaced by *n*
qc qC .. record, append typed characters in register *c*
q stop recording
@c execute the content of register *c*
@@ repeat previous @ command
:@c execute register *c* as an *Ex* command

Copying (Yanking)

"*x* use register *x* for next delete, yank, put
:reg [*x*] show content registers/*x* reg
ym yank the text of movement command *m*
yy or Y yank current line into register
p P put register after, before cursor position
]p [p like p, P with indent adjusted
gp gP like p, P leaving cursor after new text

Patterns (differences to Perl) :help pattern

\< \> start, end of word
\i \k \I \K an identifier, keyword; excl. digits
\f \p \F \P .. a file name, printable char.; excl. digits
\e \t \r \b <esc>, <tab>, <↵>, <↵>
\= * \+ ... match 0..1, 0..∞, 1..∞ of preceding atoms
\{*n*,*m*> match *n* to *m* occurrences
\{-> non-greedy match
\| separate two branches (≡ or)
\(\) group patterns into an atom
\& \1 the whole matched pattern, 1st () group
\u \l upper, lowercase character
\c \C ignore, match case on next pattern
\%x match hex character

```

\@= \@! ..... (?=pattern) (!pattern)
\@<= \@<! ..... (?<=pattern) (?<!pattern)
\@> ..... (?>pattern)
\_^ \_$. start-of-line/end-of-line, anywhere in pattern
\_. ..... any single char, including end-of-line
\zs \ze ..... set start/end of pattern
%\^ \%$ ..... match start/end of file
%\V ..... match inside visual area
\'m ..... match with position of mark m
%\(\) ..... unnamed grouping
\[ ] ..... collection with end-of-line included
%[ ] ..... sequence of optionally matched atoms
\v ..... very magic: patterns almost like perl

```

Spell Checking

```

:set spell spelllang=de_20 .... activate spellcheck
]s ..... next misspelled word
zg zG ..... add good word (to internal word list)
zw zW ..... mark bad word (to internal word list)
z= ..... suggest corrections

```

Marks, Motions, and Tags

```

mc ..... mark current position with mark  $c \in [a..Z]$ 
'c 'C ..... go to mark  $c$  in current,  $C$  in any file
'' '" ..... go to position before jump, at last edit
'[ ']' ..... go to start, end of previously operated text
:marks ..... print the active marks list
:jumps ..... print the jump list
n^0 ..... go to  $n^{th}$  older position in jump list
n^I ..... go to  $n^{th}$  newer position in jump list
^T ..jump to the tag under cursor, return from tag
:ts t .....list matching tags and select one for jump
:tj t ...jump to tag or select one if multiple matches
gf ..... open file which filename is under cursor
:tags ..... print tag list

```

Multiple Files / Buffers (\leftrightarrow)

```

:tab ball .....show buffer tablist
:buffers .....show list of buffers
:buffer n .....switch to buffer n
:badd f.txt ..... load file into new buffer
:bdelete n ..... delete buffer n (also with filename)
:bnext :bprev :bfirst :blast ... buffer movement

```

Scrolling & Multi-Windowing

```

^D ^U ^F ^B ..... scroll half / full page page down, up
zt zz zb ...current line to top, center, bottom of win
:[v]split ^Ws ^Wv .....split window (horiz., vert.)
:vert help .....open help vertically
^Wf ^W] .....open file, tag in split
:[v]new ^Wn ..... new empty window (horiz., vert.)
:on ^Wo .....make current win the only one
^Wj ^Wk ^Wh ^Wl ....move down, up, left, right to win
^WJ ^WK ^WH ^WL ..... move win down, up, left, right
^Wn+ ^Wn- ..... increase/decrease win size by  $n$  lines
^Wn > ^Wn < ..... increase/decrease window width
^Wn_ ^Wn| .....set height/width (max if no  $n$ )
^W= ..... Make win size equal
^Wr ^Wx ..... Rotate, exchange windows
^Wc ..... close window

```

Misc Ex Commands (\leftrightarrow) :help holy-grail

```

:e f ..... edit file  $f$ , reload current file if no  $f$ 
:r w f ....write range  $r$  to file  $f$  (current file if no  $f$ )
:r w>>f ..... append range  $r$  to file  $f$ 
:r g[!]/p/cmd ..ex cmd on range  $r$  [not] matching  $p$ 
:q :q! ..quit and confirm, quit and discard changes
:wq or :x or ZZ ..... write to current file and exit
:r f ..... insert content of file  $f$  below cursor
:r! c ..... insert output of command  $c$  below cursor
:rc a :rm a .....copy, move range  $r$  below line  $a$ 

```

Ex Ranges

```

, ; .....separates two lines numbers, set to first line
n .....an absolute line number  $n$ 
. $ .....the current line, the last line in file
% * .....entire file, visual area
't .....position of mark  $t$ 
/p/ ?p? .... the next, previous line where  $p$  matches
+n -n .....+ $n$ ,  $-n$  to the preceding line number

```

Completion

```

^X^L ..... whole lines
^X^N ^X^I .. keywords in current file, plus included files
^X^K ^X^N ..... keywords in dictionary, thesaurus
^X^] ^X^F ^X^D ..... tags, filenames, defs/macros
^X^V ..... vim command line
^X^U ^X^O ..... user defined, omni- completion

```

Folding

```

:set fdm=indent .....indent-foldmethod
zfm ..... create fold of movement  $m$ 
:rfo ..... create fold for range  $r$ 
zd zE .....delete fold at cursor, all in window
zo zc zO zC .....open, close one fold; recursively
[z ]z ..... move to start, end of current open fold
zj zk .....move down, up to start, end of next fold
zm zM ..... fold more, close all folds
zr zR ..... fold less, open all folds
zn zN zi .....fold non, fold normal, invert folding
:set foldcolumn=4 ..... show foldcolumn

```

Compiling

```

:compiler c .....set/show compiler plugins
:make ..... run makeprg, jump to first error
:cope .....navigate errors from make
:cn :cp .....display the next, previous error
:cl :cf .....list all errors, read errors from file

```

Miscellaneous

```

:sh :!c ..... start shell, execute command  $c$  in shell
K .....run keywordprg (man) on word under cursor
^L .....redraw screen
^G ...show cursor column, line, and character position
:set cuc .....show cursor column visually
ga .....show ASCII value of character under cursor
:mkview [f] :loadview [f] ..save/load configuration
:set ff=dos ..... convert file to dos eol format
:e ++ff=unix .....reopen file in unix eol format
:write ++enc=utf-8 ..... Write file in utf-8
:set hlsearch .....highlight searches
:rhardcopy > file.ps .....print range to ps file
:set list .....show listchar characters (tabs etc.)

```