

GNU Emacs Quick Reference Guide for CS61B

Bullets (●) mark a suggested starting set of commands. Daggers (‡) denote key bindings that are not standard in GNU Emacs. *ARG* denotes the prefix numeric argument (entered with *C-u* or *M-digit*).

Cursor motion.

<i>C-f</i>	Forward character.●
<i>M-f</i>	Forward word.●
<i>C-e</i>	Forward to end of line.●
<i>C-b</i>	Backward character.●
<i>M-b</i>	Backward word.●
<i>C-a</i>	Backward to start of line.●
<i>M-e</i>	Forward sentence.
<i>M-[</i>	Forward paragraph.
<i>M-a</i>	Backward sentence.
<i>M-]</i>	Backward paragraph.
<i>C-n</i>	Next line.●
<i>C-p</i>	Previous line.●
<i>M-<</i>	Beginning of buffer.●
<i>M-></i>	End of buffer.●
<i>C-v</i>	Scroll text up one screen (or <i>ARG</i> lines).●
<i>M-v</i>	Scroll text down (or <i>ARG</i> lines).●
<i>M-g</i>	Go to line number <i>ARG</i> .‡
<i>M-x what-line</i>	Display line number.
<i>C-M-v</i>	Scroll other window up one screen (or <i>ARG</i> lines).

Marking regions of text

<i>C-@</i>	Set mark at point.●
<i>C-x C-x</i>	Exchange mark and point.●
<i>C-SPC</i>	Same as <i>C-@</i> .
<i>M-@</i>	Set mark after end of next word.
<i>M-h</i>	Set mark and point around current paragraph.
<i>C-x h</i>	Set mark and point around current buffer.

Deletion and yanking

<i>DEL</i>	Delete character before cursor.●
<i>M-DEL</i>	Delete word before cursor and add to kill buffer.●
<i>C-d</i>	Delete character at cursor.●

<i>M-d</i>	Delete word at and after cursor and add to kill buffer.●
<i>C-k</i>	Delete to end of line and add to kill buffer.●
<i>M-W</i>	Delete current region, and add to kill buffer.‡●
<i>M-\</i>	Delete surrounding blanks and tabs.
<i>M-SPC</i>	Delete all but one surrounding blank.
<i>C-x C-o</i>	Delete all but one surrounding blank line.
<i>C-M-w</i>	Cause next command, if a kill, to append to previous kill buffer, instead of new one.
<i>C-y</i>	Insert text from kill buffer at point.●
<i>C-u C-y</i>	Insert text from kill buffer at point without moving point.
<i>M-y</i>	Replace preceding <i>C-y</i> text with next most recent kill buffer.
<i>M-w</i>	Copy region to kill buffer, no deletion.

Indentation

<i>TAB</i>	Indent according to mode.●
<i>Lf</i>	Same as <i>RET TAB</i> .
<i>M-;</i>	Indent and start comment.
<i>M-LF</i>	Continue comment on next line.
<i>C-x TAB</i>	Indent region rigidly by <i>ARG</i> .
<i>C-M-\</i>	Indent region according to mode.●

Search

<i>C-s</i>	Search forward.●
<i>C-s C-s</i>	Same as <i>C-s</i> with last string.●
<i>C-r</i>	Search backward.●
<i>C-r C-r</i>	Same as <i>C-r</i> with last string.●
<i>C-u C-s</i>	Search forward for regular expression.
<i>M-x occur</i>	Display lines matching a regular expression.
<i>M-x grep</i>	Display results of UNIX <i>grep</i> utility.
<i>M-x count-matches</i>	

The following subcommands are valid during a search.

<i>RET</i>	End search.●
<i>DEL</i>	Undo effect of last search character typed.●
<i>C-g</i>	Abort search.●
<i>C-s</i>	Search for next match forward.●
<i>C-r</i>	Search for next match backward.●
<i>C-q</i>	Quote next character.
<i>C-w</i>	Extend search string with next word.
<i>LFD</i>	Extend search string with rest of line.

Replacement

M-q Query replace.●†
M-Q Query replace regular expression.†
M-x delete-matching-lines
M-x delete-non-matching-lines

During a query-replacement, the following are valid responses to prompts.

SPC Make replacement and go to next.●
DEL Skip replacement and go to next.●
RET End replacement.●
! Replace all remaining instances without asking.●
C-r Enter recursive edit; return with C-M-c.

Regular expressions

. Match any character.●
^ Match at start of line.●
\$ Match at end of line.●
[. . .] Match any character in the '...'●
[^ . . .] Match any character except those in '...'●
* Match 0 or more of pattern to left.●
+ Match 1 or more of pattern to left.
? Match 0 or 1 of pattern to left.
\c Quotes c, except for the following.
\b Match at beginning or end of word.
\B Match except at beginning or end of word.
\| Match either pattern to left or right.
\(. . . \) Grouping.
\n Match copy of whatever matched nth group.

Miscellaneous editing

C-o Insert newline after cursor.
C-t Transpose characters.
M-t Transpose words.
C-x C-t Transpose lines.
M-u Convert whole word to upper case.
M-l Convert whole word to lower case.
M-c Capitalize word.

Files

C-x C-f Find file; load if needed.●
C-x 4 C-f Find file in other window.●
C-x C-s Save file.●
C-x C-w Write to explicitly-named file.
C-x i Insert file at cursor.
M-x recover-file Recover file after disaster from auto-save file.
M-x revert-buffer Throw away changes to buffer and restore from file.

Buffers and windows

C-x o Put cursor in other window.●
C-x 1 Grow current window to full screen.●
C-x 2 Split current window vertically.●
C-x b Put named buffer in window.●
C-x 0 Remove current window.
C-x 3 Split current window horizontally.
C-x C-b List all buffers.
C-x k Delete buffer.

Shells

M-x shell Run UNIX shell in a buffer.●
M-| Execute single shell command on region. With ARG, replaces region.

Commands active in shell buffers:

RET Send current line to shell.●
TAB Complete preceding file name.●
C-c C-c Send interrupt to shell.●
C-c C-u Erase current input line.●
C-c C-z Send stop signal to shell.●
C-c C-d Send EOF to shell.

Compilation, debugging, and tags

M-x compile Execute command (by default, make) asynchronously.●
C-x ` Position to next error or next line found by M-x grep command.●
M-x kill-compiler Stop active compile.

M-x `visit-tags-table` Specify file containing tags produced by `etags`.●
M- . Display source for given tag.●
C-u M- . Find next alternate definition for last tag.●
C-x 4 . Display source for tag in other window.
M-x `tags-search`
M-x `tags-query-replace` Look for pattern in all files named in tags table.
M-x `tags-apropos` Display matching tags.

Mouse commands

Left, middle, and right buttons are LB, MB, and RB.

LB Put cursor at mouse. Dragging marks region.
MB Paste text from window-system cut buffer at mouse.
RB Extend region to pointer and copy into cut and kill buffers. Clicking twice deletes region.
C-LB Select a buffer.

M-x `gdb` Run GNU debugger on file.
M-x `gjdb` Run Java debugger on class.

Commands valid in `gdb` and `gjdb` modes.

C-c C-s Step.●
C-c C-n Next.●
C-c < Up stack.●
C-c > Down stack.●
C-c C-r Finish.●
C-x SPC In any source file, sets a break point.●
C-c C-i StepI (gdb only).

Help and documentation

M-x `manual-entry` UNIX man page for given topic.
C-h a Look up names of matching commands.●
C-h b Display key bindings.●
C-h f Help for M-x function.●
C-h C-h Help for C-h.●
C-h i Run info browser.●
C-h k Help for key.●
C-h m Help for current mode.
C-h t Tutorial.
C-h w Key containing function.

Inside an `*info*` buffer (result of C-h i), the following are defined.

m Select menu item.●
l Go to last-visited node.●
? Get help for browser.●
u Go to node's parent.●
n Go to next node in sequence.●
q Leave browser.●
. Go to top of node.
d Go to top-level node.