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). The notation ‘C-x’ means “control-x”, the result of holding down the control key while typing x. ‘M-x’ means “meta-x”, the result of holding down the ‘Meta’, Alt, or ◆ key (depending on keyboard) while typing x. If you are not using a window system or have a keyboard without these keys, the sequence of two characters ESC x is equivalent. The notation ‘C-M-x’ is equivalent to holding down both control and meta keys while typing x, or of typing the two characters ESC C-x.

**Cursor motion.**

- **C-f** Forward character. ●
- **C-b** Backward character. ●
- **M-f** Forward word. ●
- **M-b** Backward word. ●
- **C-e** Forward to end of line. ●
- **C-a** Backward to start of line. ●
- **C-M-f** Forward S-expression. ●
- **C-M-b** Backward S-expression. ●
- **M-e** Forward sentence. ●
- **M-a** Backward sentence. ●
- **M-↑** Forward paragraph. ●
- **M-↓** Backward paragraph. ●

- **C-n** Next line. ●
- **C-p** Previous line. ●
- **M-<** Beginning of buffer. ●
- **M->** End of buffer. ●
- **C-v** Scroll text up one screen (or ARG lines). ●
- **M-v** Scroll text down (or ARG lines). ●
- **M-g** Go to line number ARG. †
- **M-what-line** Display line number.
- **C-M-v** Scroll other window up one screen (or ARG lines).

**Marking regions of text**

- **C-a** Set mark at point. ●
- **C-x C-x** Exchange mark and point. ●

**Deletion and yanking**

- **DEL** Delete character before cursor. ●
- **M-DEL** Delete word before cursor and add to kill buffer. ●
- **C-d** Delete character at cursor. ●
- **M-d** Delete word at and after cursor and add to kill buffer. ●
- **C-k** Delete to end of line and add to kill buffer. ●
- **M-k** Delete current region, and add to kill buffer. ●
- **M-\** Delete surrounding blanks and tabs. ●
- **M-SPC** Delete all but one surrounding blank.
- **C-x C-o** Delete all but one surrounding blank line.
- **C-M-w** Cause next command, if a kill, to append to previous kill buffer, instead of new one.

- **C-y** Insert text from kill buffer at point. ●
- **C-u C-y** Insert text from kill buffer at point without moving point.
- **M-y** Replace preceding C-y text with next most recent kill buffer.
- **M-w** Copy region to kill buffer, no deletion.

**Indentation**

- **TAB** Indent according to mode. ●
- **LFD** Same as RET TAB.
- **M-;** Indent and start comment.
- **M-LFD** Continue comment on next line.
- **C-x TAB** Indent region rigidly by ARG.
- **C-M-\** Indent region according to mode. ●

**Search**

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

The following subcommands are valid during a search.

RET  End search.
DEL  Undo effect of last search character typed.
C-g  Abort search.
C-n  Search for next match forward.
C-p  Search for next match backward.
C-q  Quote next character.
C-w  Extend search string with next word.
LFD  Extend search string with rest of line.

Replacement

M-x%  Query replace.
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 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.
\l  Match either pattern to left or right.
\(...\)  Grouping.
\n  Match copy of whatever matched n-th group.

Miscellaneous editing

C-o  Insert newline after cursor.
C-t  Transpose characters.
M-t  Transpose words.
C-x C-t  Transpose lines.
C-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 autosave 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  Send interrupt to shell.
Scheme

M-x run-scheme Run Scheme interpreter in buffer
  *scheme*.

C-c C-x Put the cursor in buffer *scheme*.
C-c C-z Send definition to *scheme*.
C-c C-e Same as C-c C-x C-c C-z.
C-c C-l Load file into *scheme*.
C-c C-l Same as C-c C-l C-c C-z.

C-c C-r Send current region to *scheme*.

M-C-q Indent Scheme expression.
M-C-\ Indent current region.
TAB Indent the current line.
LFD Same as RET TAB.

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.
M-x gdb Run GNU debugger on file.

Commands valid in gdb mode.
C-c C-g Step.
C-c C-n Next.
C-c < Up stack.
C-c > Down stack.
C-c C-f Finish.

C-x C-x In any source file, sets a break point.
C-c C-i Stepi.

Help and documentation

M-x manual-entry UNIX man page for given topic.
C-h a Look up names of matching Emacs 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.

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.