

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.

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

Marking regions of text

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

Deletion and yanking

| | |
|--------------------|--|
| <code>DEL</code> | Delete character before cursor.● |
| <code>M-DEL</code> | Delete word before cursor and add to kill buffer.● |
| | |
| <code>C-d</code> | Delete character at cursor.● |
| <code>M-d</code> | Delete word at and after cursor and add to kill buffer.● |
| | |
| <code>C-k</code> | Delete to end of line and add to kill buffer.● |
| <code>M-W</code> | Delete current region, and add to kill buffer.†● |

| | |
|----------------------|---|
| <code>M-SPC</code> | Delete all but one surrounding blank. |
| <code>C-x C-o</code> | Delete all but one surrounding blank line. |
| <code>C-M-w</code> | Cause next command, if a kill, to append to previous kill buffer, instead of new one. |
| | |
| <code>C-y</code> | Insert text from kill buffer at point.● |
| <code>C-u C-y</code> | Insert text from kill buffer at point without moving point. |
| <code>M-y</code> | Replace preceding <code>C-y</code> text with next most recent kill buffer. |
| | |
| <code>M-w</code> | Copy region to kill buffer, no deletion. |

Indentation

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

Search

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

The following subcommands are valid during a search.

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

Replacement

| | |
|--|------------------------------------|
| <code>M-q</code> | Query replace.●† |
| <code>M-Q</code> | Query replace regular expression.† |
| <code>M-x delete-matching-lines</code> | |
| <code>M-x delete-non-matching-lines</code> | |

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

| | |
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| <code>SPC</code> | Make replacement and go to next.● |
| <code>DEL</code> | Skip replacement and go to next.● |

! replace all remaining instances without asking.●
C-r Enter recursive edit; return with **C-M-c**.

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

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 *n*th group.

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.

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).

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.

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 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. |