GNU Emacs
Quick Reference Guide for MCS-385

Bullets (•) mark a suggested starting set of commands. *ARG* denotes the prefix numeric argument (entered with `C-u` or `M-`*digit* or `C-`*digit*).

Cursor motion.

`C-f`	Forward character.•
`M-f`	Forward word.•
`C-e`	Forward to end of line.•
`C-b`	Backward character.•
`M-b`	Backward word.•
`C-a`	Backward to start of line.•
`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).•
`C-M-v`	Scroll other window up one screen (or *ARG* lines).

Marking regions of text

`C-@`	Set mark at point.•
`C-SPC`	Same as `C-@`.
`C-x C-x`	Exchange mark and point.•
`M-h`	Set mark and point around current paragraph.
`C-x h`	Set mark and point around current buffer.

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.•
`C-w`	Delete current region, and add to kill buffer.•
`C-y`	Insert text from kill buffer at 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.•
`LF`	Same as RET TAB.
`C-M-\`	Indent region according to mode.•

Search

`C-s`	Search forward.•
`C-s 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-s`	Search for next match forward.•
`C-r`	Search for next match backward.•
`C-q`	Quote next character.
`C-w`	Extend search string with next word.

Replacement

`M-%`	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 all remaining instances without asking.•
`C-r`	Enter recursive edit; return with `C-M-c`.

Running Lisp and Scheme

`C-c l`	Run lisp in a buffer.
`M-x run-scheme`	Run Scheme in a buffer.
`C-c C-e`	Execute the expression near the cursor
`C-c C-r`	Execute the region
`M-C-\`	Indent region

Miscellaneous editing

`C-x u` **Undo**.
`C-/` Also **Undo**.
`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 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.•
`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-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.

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.