

## 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.

<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>C-n</i>	Next line.●
<i>C-p</i>	Previous line.●
<i>M-&lt;</i>	Beginning of buffer.●
<i>M-&gt;</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>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-SPC</i>	Same as <i>C-@</i> .
<i>C-x C-x</i>	Exchange mark and point.●
<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>C-w</i>	Delete current region, and add to kill buffer.●
<i>C-y</i>	Insert text from kill buffer at 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>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.

### Replacement

<i>M-%</i>	Query replace.●
<i>M-x delete-matching-lines</i>	
<i>M-x delete-non-matching-lines</i>	

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

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

### Running Lisp and Scheme

<i>C-c 1</i>	Run lisp in a buffer.
<i>M-x run-scheme</i>	Run Scheme in a buffer.
<i>C-c C-e</i>	Execute the expression near the cursor
<i>C-c C-r</i>	Execute the region
<i>M-C-\</i>	Indent region

## Miscellaneous editing

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

## Files

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

## Buffers and windows

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

## Shells

<b>M-x shell</b>	Run UNIX shell in a buffer.●
<b>M- </b>	Execute single shell command on region. With <i>ARG</i> , replaces region.

Commands active in shell buffers:

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

## Compilation, debugging, and tags

<b>M-x compile</b>	Execute command (by default, <b>make</b> ) asynchronously.●
<b>C-x ‘</b>	Position to next error or next line found by <b>M-x grep</b> command.●
<b>M-x visit-tags-table</b>	Specify file containing tags produced by <b>etags</b> .●
<b>M-.</b>	Display source for given tag.●
<b>C-u M-.</b>	Find next alternate definition for last tag.●
<b>M-x tags-search</b>	
<b>M-x tags-query-replace</b>	Look for pattern in all files named in tags table.
<b>M-x tags-apropos</b>	Display matching tags.
<b>M-x gdb</b>	Run GNU debugger on file.
Commands valid in <b>gdb</b> mode.	
<b>C-c C-s</b>	Step.●
<b>C-c C-n</b>	Next.●
<b>C-c &lt;</b>	Up stack.●
<b>C-c &gt;</b>	Down stack.●
<b>C-c C-r</b>	Finish.●
<b>C-x SPC</b>	In any source file, sets a break point.●
<b>C-c C-i</b>	Stepi.

## Help and documentation

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

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

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