

# GNU/X Emacs

©1998-2011 Mitch Richling  
Last Update: 2011-06-22

## How to get out: C-x C-c

### Buffers

- Go to other buffer C-x b
- Go NEXT buffer C-x right
- Kill buffer C-x k
- List all buffers C-x C-b
- Go PREVIOUS buffer C-x left

### Loading & Saving Files

- Find file C-x C-f
- Find file read only C-x C-r
- See "Windows & Frames" for more options
- Find file at point (ffap) C-c C-f
- Replace buffer with other file C-x C-v
- Save buffer C-x C-s
- Save all buffers C-x s
- Save buffer (new name) C-x C-w
- Toggle read only C-x C-q
- Note: FTP file name syntax: /username@systemname:/path/file

### Cursor Movement & Scrolling

- |                          |          |         |
|--------------------------|----------|---------|
|                          | Backward | Forward |
| character                | C-b      | C-f     |
| word                     | M-b      | M-f     |
| line                     | C-p      | C-n     |
| line start/end           | C-a      | C-e     |
| sentence                 | M-a      | M-e     |
| page                     | C-x [    | C-x ]   |
| sexp                     | M-C-b    | M-C-f   |
| function                 | M-C-a    | M-C-e   |
| buffer start/end         | M-<      | M->     |
| Scroll up/down screen    | C-c      | M-v     |
| Scroll left/right screen | C-x <    | C-x >   |
| Center on current line   | C-l      |         |
| goto-line                |          | M-g     |
| first non-blank char     |          | M-m     |

### Marking

- Set mark C-SPC
- mark word M-@
- mark sexp M-C-SPC
- mark buffer C-x h
- Swap mark & point C-x C-x
- mark paragraph M-h
- mark function M-C-h
- Pop mark-n-move C-u C-SPC

### Killing, Yanking & Deleting

- |                             |          |          |
|-----------------------------|----------|----------|
|                             | Backward | Forward  |
| delete-char                 | DEL      | C-d      |
| kill-word                   | M-DEL    | M-d      |
| kill-line                   | M-0 M-k  | C-k      |
| kill-sentence               | M-x DEL  | M-k      |
| kill-sexp                   | M-C-DEL  | M-C-k    |
| kill-entire-line            |          | C-S-DEL  |
| kill-region                 |          | C-w      |
| copy region                 |          | M-w      |
| kill to char                |          | M-z char |
| yank                        |          | C-y      |
| yank without moving point   |          | C-u C-y  |
| yank nth kill               |          | C-n C-y  |
| copy to kill ring           |          | M-w      |
| replace yank older kill     |          | M-y      |
| Delete blank lines at point |          | C-x C-o  |
| Delete whitespace at point  |          | M-\      |
| Delete indentation          |          | M-^      |
| Append Next Kill            |          | M-C-w    |
- delete-trailing-whitespace
  - MJR-delete-whitespace-rectangle

### Registers

- append-to-register (region) (delete with prefix) C-x r a
- copy-to-register (region) (delete with prefix) C-x r x C-x x
- copy-rectangle-to-register (delete with prefix) C-x r r
- point-to-register (store frame with prefix) C-x r SPC C-x /
- MJR-file-to-register C-x r f
- window-configuration-to-register C-x r w
- insert-register (region/rectangle) C-x r i C-x g
- view-register C-x r v
- jump-to-register (point/frame/win config) C-x r j C-x j

### Rectangles

- string-rectangle C-x r t
- yank-rectangle C-x r y
- kill-rectangle C-x r k
- copy-rectangle-\* C-x r r
- open-rectangle C-x r o
- delete-rectangle C-x r d
- clear-rectangle C-x r c

### Narrowing

- narrow-to-region C-x n n
- widen C-x n w

### Tags

- find tag M-.
- find tag regexp M-C-.
- find next C-u M-.

### Spell Check (ispell)

- ispell-region
- ispell-comments-and-strings
- ispell-buffer
- ispell-change-dictionary

### Bookmarks

- bookmark-bmenu-list C-x r l
- bookmark-set C-x r m
- bookmark-save
- bookmark-write
- bookmark-jump C-x r b
- bookmark-load
- bookmark-delete

### Tabs

- Width variable tab-width
- Untabify region M-x untabify
- Tabify region M-x tabify

### Faces

- facemenu-set-default M-g d
- facemenu-set-italic M-g i
- facemenu-set-underline M-g u
- facemenu-remove-all
- facemenu-set-bold M-g b
- facemenu-set-bold-italic M-g l
- facemenu-set-face M-g o

### Windows & Frames

- |                                     |         |                      |
|-------------------------------------|---------|----------------------|
|                                     | Window  | Frame                |
| other-* (n-th one with arg)         | C-x o   | C-x 5 o              |
| delete-*                            | C-x 0   | C-x 5 0              |
| delete-other-*                      | C-x 1   | C-x 5 1              |
| split-window-vertically/make-frame  | C-x 2   | C-x 5 2              |
| split-window-horizontally           | C-x 3   |                      |
| balance-windows (height)            | C-x +   |                      |
| enlarge-window                      | C-x -   |                      |
| enlarge-window-horizontally         | C-x }   |                      |
| shrink-window (height)              |         |                      |
| shrink-window-horizontally          | C-x {   |                      |
| shrink-window-if-larger-than-buffer | C-x -   |                      |
| scroll-other-window (up)            | M-C-v   |                      |
| scroll-other-window-down            | M-C-S-v |                      |
| direc-other-*                       | C-x 4 d | C-x 5 d              |
| find-file-other-*                   | C-x 4 f | C-x 5 f              |
| find-file-read-only-other-*         | C-x 4 r | C-x 5 r              |
| find-tag-other-*                    | C-x 4 . | C-x 5 .              |
| switch-to-buffer-other-*            | C-x 4 b | C-x 5 b              |
| add-change-log-entry-other-*        | C-x 4 a |                      |
| kill-buffer-and-*                   | C-x 4 0 |                      |
| After windmove-default-keybindings  |         |                      |
| windmove-down S-down                |         | windmove-up S-up     |
| windmove-right S-right              |         | windmove-left S-left |

### Formatting

- Indent current line TAB
- Indent region M-C-\
- Move rest of line down M-C-o
- set fill column C-x f
- Indent sexp M-C-q
- Indent region rigidly C-x TAB
- fill paragraph M-q
- set fill prefix C-x .

### Line Oriented Operations

- count-lines-region
- delete-matching-lines
- list-matching-lines
- sort-lines
- delete-non-matching-lines
- highlight-lines-matching-regexp

### Repeating & Arguments

- Repeat 4 times C-u
- Use it n times to repeat 4^n times
- Repeat n times with C-u n C-u
- Repeat n times with M-n
- n may be positive, negative, or just the '-' sign.
- Some commands behave differently with C-u vs M-4

### Search & Replace

- query-replace M-%
- query-replace-regexp M-C-%
- Interactive replace responses:
  - Replace and go on y
  - Replace and stay ,
  - Skip and go on n
  - Exit query replace q
  - Recursive edit (M-C-c exits) C-r
  - Replace and stop !
  - Replace all .
  - Backup to last match ^
  - Edit the replacement E

### Search

- |               |             |         |                 |           |
|---------------|-------------|---------|-----------------|-----------|
|               | Incremental |         | Non-incremental |           |
|               | Backward    | Forward | Backward        | Forward   |
| string search | C-r         | C-s     | C-r ret         | C-s ret   |
| regexp search | M-C-r       | M-C-s   | M-C-r ret       | M-C-s ret |

- Durring search:
  - Abort search C-g
  - Toggle case sensitivity M-c
  - word for search C-w
  - kill buffer for search M-y
  - Search ring next M-n
  - Stop
  - Toggle regexp mode M-r
  - line for search C-y
  - Complete from search ring M-y
  - Search ring previous M-p

### Emacs Regular Expression Syntax

- Start of line ^
- Any single char .
- Zero or more c c\*
- One or more c c+
- Start of word \<
- Grouping \(...\)
- End of line \$
- Character classes [...]
- Zero or more chars .\*
- One or more chars .+
- End of word \>
- NOTE: '\' in REPLACEMENT is as in Perl (Use '\\' for literal).

### Keyboard Macros

- Start keyboard macro def C-x (
- End keyboard macro def C-x )
- execute last macro C-x e
- Append to last macro C-x C-x (
- name-last-kbd-macro
- insert macro as lisp
- apply to region lines

### Mule

- Set language C-x RET l
- Set keyboard cod C-x RET k
- Set filename cod C-x RET F
- Set buffer process cod C-x RET p
- Set input method C-x RET C-
- Set terminal cod C-x RET t
- Set buffer file cod C-x RET f

### Help

- Search help (apropos) C-h a
- describe a key sequence C-h k
- describe function C-h f
- describe mode C-h m
- describe key bindings C-h b
- Which key for command C-h w
- describe variable C-h v
- Basic help how-to C-h h

## LaTeX

• Typeset/View/Print	C-c C-c	• View Errors	C-c '
• find-matching-begin	M-C-a	• find-matching-end	M-C-e
• show-environment	C-c C-x	• hide-environment	C-c C-z
• environment	C-c C-e	• close-environment	C-c ]
• math-mode	C-c -	• fill-environment	C-c C-q C-e
• section	C-c C-s	• fill-section	C-c C-q C-s
• insert-item	M-RET	• fill-region	C-c C-q C-r
• TeX-complete-symbol	M-TAB	• fill-paragraph	C-c C-q C-p

## GUD

• Start perl dbg	M-x perlDb	• Start dbx	M-x dbx
• Start GDB	M-x gdb	• Step into funcs	C-c C-n
• Step line	C-c C-s	• Finish stack frame	C-c C-f
• Step ASM inst	C-c C-i	• Continue	M-c
• Run	C-c C-r	• Down arg frames	M-d
• Up arg frames	M-u	• Remove breakpoints	C-c C-d
• Set breakpoint	C-x SPC		

## Interactive Lisp Mode (\*scratch\*)

• eval-print-last-sexp	C-j	• eval-defun	M-C-x
• lisp-indent-line	TAB	• indent-sexp	M-C-q
• lisp-complete-symbol	M-TAB		

## Inferior Modes (lisp/shell/sql/etc..)

• Insert last argument	C-c .	• comint-kill-input	C-c C-u
• Move to last prompt	C-c C-p	• Move to next prompt	C-c C-n
• Recall last input	C-up	• Recall next input	C-down
• Last matching input	M-r	• Next matching input	M-s
• Clear last output	C-c C-o	• Move to buffer end	C-c C-e
• Write last result to file	C-c C-s	• backward-kill-word	C-c C-w

## Version Control

• vc-next-action (ci/co)	C-x v v	• vc-revert-buffer	C-x v u
• vc-version-other-window	C-x v ~	• vc-diff	C-x v =
• vc-merge	C-x v m	• vc-print-log	C-x v l
• vc-register	C-x v i	• vc-annotate	C-x v g
• vc-update-change-log	C-x v a	• vc-cancel-version	C-x v c

## Diff Mode

• diff-unified->context	M-C	• diff-hunk-next	M-n
• diff-context->unified	M-U	• diff-hunk-prev	M-p
• diff-goto-source	M-return	• diff-apply-hunk	C-c C-a
• diff-reverse-direction	M-R	• diff-test-hunk	C-c C-t

## Shell Stuff

• Run shell command	M-!	• Run cmd on region	M-
Prefix argument (C-u) causes above to insert result at point			
• shell buffer	M-x shell	• eshell buffer	M-x eshell

## Fortran Mode

• fortran-column-ruler	C-c C-r	• Quick 73col window	C-c C-w
• Start or indent comment	M-;	• Comment region	C-;
• fortran-split-line	M-C-j	• Indent subprogram	M-C-q

## C-like Modes

• c-macro-expand	C-c C-e
------------------	---------

## Editing Binary Files (hexl-mode)

• hexl-find-file		• exit hexl mode	C-c C-c
• beginning 1k page	C-x [	• end 1k page	C-x ]
• beginning .5k page	M-C-a	• end .5k page	M-C-e
• backward-short	M-C-b	• forward-short	M-C-f
• goto-hex-address	M-g	• goto-address	M-j
• insert-decimal-char	M-C-d	• insert-hex-char	M-C-x

## Speedbar

Startup with: speedbar			
• speedbar-refresh	g	• speedbar-close-frame	q
• speedbar-next	n	• speedbar-prev	p

## hi-lock-mode

• unhighlight-regexp	C-x w r	• highlight-regexp	C-x w h
• highlight-phrase	C-x w p	• highlight matching lines	C-x w l

## desktop-save-mode

• desktop-save		• desktop-read	
----------------	--	----------------	--

## SLIME

• Object Info & Docs			
• Who Calls func	C-c C-w c	• Who func calls	C-c >
• Who References var	C-c C-w r	• Who Binds var	C-c C-w b
• Who Sets var	C-c C-w s	• Who expands Macro	C-c C-w m
• Apropos	C-c C-d C-a	• Hyperspec Lookup	C-c C-d h
• Describe Function	C-c C-d C-f	• Describe Symbol	C-c C-d C-d
• Code Editing			
• File: Compile & load	C-c C-k	• Eval defun@ pt	M-C-x
• File: Compile	C-c M-k	• Eval expression@ pt	C-x C-e
• File: Load	C-c C-l	• Eval region	C-c C-r
• REPL Interaction			
• Close () and eval	C-return	• Interrupt	C-c C-c
• Clear last output	C-c C-o	• Clear entire buffer	C-c M-o
• History search (bak)	M-r	• History search (fwd)	M-s
• History Prev	C-up	• History Next	C-down
• Repl Shortcut	,		
• Misc (any mode)			
• Interactive Eval	C-c :	• Buffer Selector	C-c s

## Dired

• Start Dired	C-x d		
• Change sort/lis options	s		
• Update the dired buffer	g		
• Insert subdirectory listing	i		
• Remove subdirectory listing	k		
• Smart clean up	% c		
• Copy filenames to kill ring	W (full path with prefix argument)		
• Copy filenames to kill ring	w (full path with prefix argument)		
• Enter directory	ENTER		
• Cursor Movement	Backward Forward		
• Line	p n		
• Directory	< >		
• Subdirectory	M-C-p M-C-n		
• Marked File	M-p M-n		
• Un-mark (marked with '*') and Un-flag (marked with 'd')			
• All Files	M-delete	• Current File	u
• All Files	U		
• Power Delete			
• Mark for delete	d	• Remove mark	u
• Mark auto-save files	#	• Mark backup files	~
• Mark via regex	% d	• Delete all marked	x
• Marking Files (with *)			
• Current File	m	• Executables	*
• All RCS files	,	• All directories	/
• All symlinks	@	• With extension	% e
• Matching regex	% m	• All all but . and ..	m
• Operate on Current or Marked (marked with *)			
• chgrp	G	• chown	O
• copy	C	• rename	R
• chmod	M	• hardlink	H
• symlink	S	• relsymlink	Y
• uucode	U	• compress	Z
• downcase	% D	• upcase	% U
• Search in marked	A	• Search and replace	Q
• grep	E	• print	P
• Shell command	!	• Shell command on each C-u !	
• delete	X	• total size	T
• Operate Current File			
• visit	f	• View read only	v
• visit other window	o	• visit other frame	w
• diff file @ mark	= d	• diff backup	= b
• Make a subdir	+		
• Operate Files Matching Regex			
• Copy	% C	• Rename	% R
• Downcase names	% D	• Upcase names	% U
• Relative Symlink	% Y	• Symlink	% S
• Hardlink	% H		

## Org-Mode

• Visibility			
• Rotate subtree visibility	TAB		
• Set startup visibility	C-u C-u TAB	• Show everything	C-u C-u C-u TAB
• Motion			
• next heading	C-c C-n	• previous heading	C-c C-p
• up to higher heading			C-c C-u
• Structure Editing			
• insert heading this level	M-RET	• new heading after subtree	C-RET
• insert TODO entry	M-S-RET	• new TODO after subtree	C-S-RET
• demote heading	M-RIGHT	• promote heading	M-LEFT
• demote current subtree	M-S-LEFT	• promote current subtree	M-S-RIGHT
• move subtree down	M-S-DOWN	• move subtree/list item up	M-S-UP
• narrow buffer to subtree	C-x n s		
• Tables			
• move column left	M-LEFT	• move column right	M-RIGHT
• kill the current column	M-S-LEFT	• insert new column	M-S-RIGHT
• move row up	M-UP	• move row down	M-DOWN
• kill row or hline	M-S-UP	• insert new row	M-S-DOWN
• re-align the table	C-c C-c	• insert hline	C-c -
• org-table-export		• org-table-import	
• Links			
• edit link at point	C-c C-l		
• open file links in emacs	C-c C-o	• back to last followed link	C-c &
• find next link	C-c C-x C-n	• find previous link	C-c C-x C-p
• Babel			
• eval code block	C-c C-c	• open results of code block	C-c C-o
• go to named code block	C-c C-v g	• go to named result	C-c C-v r
• demarcate a code block	C-c C-v d		
• eval buffer code blocks	C-c C-v b	• eval subtree code blocks	C-c C-v s
• TODO			
• rotate state	C-c C-t		
• DEADLINE timestamp	C-c C-d	• SCHEDULED timestamp	C-c C-s
• toggle checkbox at point	C-c C-c	• update checkbox stats	C-u C-c #
• Timestamps			
• insert timestamp	C-c .	• insert inactive timestamp	C-c !
• Exporting and Publishing			
• export dispatcher	C-c C-e	• export visible	C-c C-e v