GNU Emacs Reference Card Reloaded

(for version 27)

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Starting Emacs

To enter GNU Emacs 27, just type its name: emacs

Leaving Emacs

suspend Emacs (or iconify it under X)

C-z

exit Emacs permanently

C-x C-c

Files

C-x C-f
M-x ffap
M-x
ffaow
C-x C-s
C-x s
C-x i
C-x C-v
C-x C-w
C-x C-q

Getting Help

The help system is simple. Type C-h (or F1) and follow the directions. If you are a first-time user, type C-h t for a tutorial.

remove help window	C-x 1
scroll help window	C-M-v
apropos: show commands matching a string	C-h a
describe the function a key runs	C-h k
describe a function	C-h f
get mode-specific information	C-h m

Error Recovery

abort partially typed or executing comma	and C-g
recover files lost by a system crash	M-x recover-session
undo an unwanted change	C-x u, C- or C-/
restore a buffer to its original contents	M-x revert-buffer
redraw garbaged screen	C-l

Search

Incremental search	
search forward	C-s
search backward	C-r
regular expression search	C-M-s
reverse regular expression search	C-M-r
select previous search string	М-р
select next later search string	M-n
exit incremental search	RET
undo effect of last character	DEL
abort current search	C-g

Use C-s or C-r again to repeat the search in either direction. If Emacs is still searching, C-g cancels only the part not matched.

Occur search

List occurrences		M-s o
(creates new window) List occurrences of word at p	point	M-s .
Miscellaneous		
Toggle case sensitivity of se	arch	M-x
toggle-case-fold-search		arch

Dired (C-x d)

Go to next/previous entry	n/p
Create directory	+
Cd up	^
Open file	RET / f
Open file in other window	0
Open file in other windows, no select	C-o
Mark entry	m
Mark entry defined by regexp	%m
Mark all files by grep-ing content	%g
Flag entry for deletion	d
Flag entry defined by regexp	%d
Promp for copy location	С
Apply mv to entry	R
Create hard link	H
Create symbolic link	S
Change entry permission	M
Unflag files	u
Confirm and delete flagged entries	X
Execute a command on selected entries	!
Idem, asynchronously	&
Compare entry to	=
Query regexp replace in selected entries	Q
Regexp occur in selected entries	

Motion

Motion		
entity to move over	backwai	rd forward
character	C-b	C-f
word	M-b	M-f
line	C-p	C-n
go to line beginning (or end)	C-a	С-е
sentence	M-a	M-e
paragraph	M-{	M-}
page	C-x [C-x]
sexp	C-M-b	C-M-f
function	C-M-a	C-M-e
go to buffer beginning (or end)	M-<	M->
scroll to next screen		C-v
scroll to previous screen		M-v
scroll left		C-x <
scroll right		C-x >
scroll current line to center, top, bott	om	C-l
goto line		M-g g
goto char		M-g c
back to indentation		M-m
goto prior mark (see Marking)		C-u C-SPC

Killing and Deleting entity to kill	backward	forward
character (delete, not kill)	DEL	C-d
word	M-DEL	M-d
line (to end of)	M-0 C-k	C-k
sentence	C-x DEL	M-k
sexp	M C-M-k	C-M-k
kill region	C-v	v

M-w
M-z char
С-у
М-у

Marking

set mark here	C-@ or C-SPC
exchange point and mark	C-x C-x
set mark arg words away	M-@
mark paragraph	M-h
mark page	С-х С-р
mark sexp	C-M-@
mark function	C-M-h
mark entire buffer	C-x h

Query Replace (current buffer)	
interactively replace a text string	M-%
using regular expressions	M-x query-replace-regexp C-M-%
Valid responses in query-replace mod	de are ·

valid responses in query-replace mode are:	
replace this one, go on to next	SPC or y
replace this one, don't move	,
skip to next without replacing	DEL or n
replace all remaining matches	!
back up to the previous match	^
exit query-replace	RET
enter recursive edit (C-M-c to exit)	C-r

Multiple Windows

When two commands are shown, the second is a similar command for a frame instead of a window.

delete all other windows	C-x 1	C-x 5 1
split window, above and below	C-x 2	C-x 5 2
delete this window	C-x 0	C-x 5 0
split window, side by side	C-x 3	
scroll other window	C-M-v	
switch cursor to another window	C-x o	C-x 5 o

S-<LEFT/RIGHT/UP/DOWN>

select buffer in other window	C-x 4 b	C-x 5 b
display buffer in other window	C-x 4 C-c	C-x 5 C-o

C-S-<LEFT/RIGHT/UP/DOWN>

C-x 4 f C-x 4 r	
C-x 4 r	C-v 5 r
	C-A J I
C-x 4 d	C-x 5 d
C-x 4 .	C-x 5.
(C-u N) C-	-x ^ /
C-u -N C-	·x ^
C-x {	
C-x }	
	C-x 4 d C-x 4 . (C-u N) C C-u -N C- C-x {

Formatting

indent current line (mode-dependent)	TAB
indent region (mode-dependent)	C-M-\
indent sexp (mode-dependent)	C-M-q
indent region rigidly arg columns	C-x TAB
indent for comment/uncomment	M-;

Comment region	C-c C-c	Challa			ovnligit out	r 1	[^]
Comment region uncomment region	C C-c C-c	Shells		r 1	•	[] \w	\W
insert newline after point	C-o	execute a shell command	N	I-!		\s <i>c</i>	\Sc
move rest of line vertically down	C-M-o	execute a shell command	N	1-&	y	\c <i>c</i>	\C <i>c</i>
delete blank lines around point	C-x C-o) M-^	asynchronously		f	onaraoter with category c	(00	100
join line with previous (with arg, next) delete all white space around point	M-\	run a shell command on the reg filter region through a shell con		ſ- -u M-	International Character Se	ts	
put exactly one space at point	M-SPC	start a shell in window *shell*		-u M- I-x shell	specify principal language		C-x RET l
fill paragraph	M-q	Start a shell ill willdow "Shell"	IV	i-x sheli	show all input methods		M-x
Cut cooment at point	M-j	Rectangles			list-input-methods enable or d set coding system for next con		t method C-\ C-x RET c
set fill column to arg	C-x f C-x .	J			show all coding systems	iiiiiaiiu	M-x
set prefix each line starts with set face	C-x . M-o	copy rectangle to register	C	-x r r	onen an county systems		list-coding-systems
Set face	141 0	kill rectangle	C	-x r k			5 3
		yank rectangle		-x r y	choose preferred coding syste	em M	I-x prefer-coding-system
Case Change		open rectangle, shifting text rig	ght C	-x r o			
uppercase word	M-u	blank out rectangle	C	-x r c	Info		
lowercase word	M-l	prefix each line with a string	C	-x r t		noodon	Ch:
capitalize word	M-c				enter the Info documentation find specified function or vari		C-h i C-h S
uppercase region lowercase region	C-x C-u C-x C-l	Abbrevs			Moving within a node:	able III IIIIO	C-II 3
lowercase region	C-X C-1	add global abbrev	C	-x a g	<u> </u>		
		add mode-local abbrev		-x a l	scroll forward		SPC
The Minibuffer		add mode-local apprev			scroll reverse		DEL
The following keys are defined in the	minibuffer.	3		-xaig	beginning of node		b
complete as much as possible	TAB	add mode-local expansion for the abbrev	nis C	-x a i l	Moving between nodes:		
complete up to one word	SPC	explicitly expand abbrev	C	-x a e	next node		n
complete and execute show possible completions	RET ?	expand previous word dynamica		I-/			
fetch previous minibuffer input	: М-р	expand previous word dynamics	any iv	1-7	previous node move up		p u
fetch later minibuffer input or default		Miscellaneous			select menu item by name		
regexp search backward through histo					select menu item by name select <i>n</i> th menu item by nu	mbor (1 0)	m n
regexp search forward through histor	5	numeric argument	C	-u <i>num</i>	follow cross reference (retu		f
abort command	C-g	negative argument	N	I	return to last node you saw	- /	1
Tyme C v ECC ECC to edit and renest	the last command that wood	quoted insert	C	-q char	return to directory node		d
Type C-x ESC ESC to edit and repeat the minibuffer. Type F10 to activate		Repeat latest command (N time		1	go to top node of Info file		u +
terminals.	te menu bur items on text			C-u N)	go to any node by name		i ~
terminais.				-X Z			g
Buffers			ŢŢ	nen z	Other:		
select another buffer	C-x b	Man	ν	I-x man/woman	run Info tutorial		h
list all buffers	C-x D C-x C-b	T-Terr		f-x calendar	look up a subject in the ind	ices	i
kill a buffer	C-x k	Calendar			search nodes for regexp		S
					quit Info		q
		Dagular Ermyagaiana					
Transposing	_	Regular Expressions any single character except a ne	awlina	. (dot)	Registers and bookmarks	C == == 0	
transpose characters	C-t	zero or more repeats	ewille	*	save region in register insert register contents into	C-x r s C-x r i	
transpose words transpose lines	M-t C-x C-t	one or more repeats		+	buffer	C-X 1 1	
transpose intes transpose sexps	C-M-t	zero or one repeat		?	save value of point in register	C-x r SP	C
		quote special characters		\	save point in named bookmar	k C-xrm	bookmark
Spelling Check		quote regular expression specia	al characte	er c \c			1
check spelling of current word	M-\$	alternative ("or")		\	jump to point saved in registe bookmark	er/ C-xrj/	D
check spelling of all words in region	M-x ispell-region check	grouping		\(\)	DOOKIIIdi K		
	ell-buffer toggle on-the-fly	shy grouping		\(:? \)			
spell checking	M-x flyspell-mode	explicit numbered grouping		\(:NUM \)	List all bookmarks	C-x r l	
Tomo		same text as <i>n</i> th group		\n			
Tags	M	at word break		\b	Save current bookmark value	S Myboo	kmark-save
find a tag (a definition) find next occurrence of tag	M C-u M	not at word break		\B		141-Y DOO	WING K-3GVC
specify a new tags file	M-x visit-tags-table	entity m	natch stai	•	Kaybaard Massas		
regexp search on all files in tags table		line		\$	Keyboard Macros		
run query-replace on all the files	M-x tags-query-replace	word \<	_	\$ \>			
continue last tags search or	M-,	symbol _		/>	start defining a keyboard mad		
query-replace Find references	M- ?	buffer \'		\'	end keyboard macro definition		4
List all tags	M- r M-x list-table	·	natch the	•	execute last-defined keyboard	C-x e	
- 7 9		ombo of characters III	LACON UNC	55 maton officia	macro		

append to last keyboard macro C-u C-x (name last keyboard macro insert Lisp definition in buffer Apply last keyboard macro to all C-x C-k r lines in the region.

M-x name-last-kbd-macro M-x insert-kbd-macro apply-macro-to-regionlines

Commands Dealing with Emacs Lisp

eval sexp before point	С-х С-е
eval current defun	C-M-x
eval region	M-x eval-region
read and eval minibuffer	M-:
load a Lisp library from load-path	M-x load-library

Simple Customization

customize variables and faces M-x customize Making global key bindings in Emacs Lisp (example):

> (global-set-key (kbd "C-c g") 'search-forward) (global-set-key (kbd "M-#") 'query-replace-regexp)

Writing Commands

(defun command-name (args) "documentation" (interactive "template") body)

An example:

(defun this-line-to-top-of-window (line) "Reposition current line to top of window.

With prefix argument LINE, put point on LINE." (interactive "P")

(recenter (if (null line)

(prefix-numeric-value line))))

The interactive spec says how to read arguments interactively. Type C-h f interactive RET for more details.

C-type Navigation

C-type rangution	
Move forward over a balanced expression	C-M-f
Move backward over a balanced expression	C-M-b
Kill balanced expression (sexp)	C-M-k
Put mark after sexp	C-M-SPC
Move point to beginning of function	C-M-a
Move point to end of function	С-М-е
Select current or following funtion	C-M-h
Jump to definitions/headers/references	M
M-x helm	-gtags-dwim
Jump back to original location after M	M- ,
Find references/symbols/function calls/pattern	C-cgr/s/a/g
List visited tags	C-cg h
Inner helm navigation:	C-n / p
	C-j / RET
Speedbar	
Open children of node	SPC
Open node in another window	RET
Go to parent directory	U
Move to next or previous node	n / p
Move to next or previous node at current level	M-n / M-p
Switch to buffer list using Speedbar presentation	b
Switch back to file tree	f

Senator and semantic (prefix : C-c ,)

Next/Previous tag

Tag up	u
Copy/cut tag	M-w / C-w
Go to reference tag	g
Inner navigation	
Nest/previous	n / p
Go to/show	RET / SPC
Locally unfold/fold tag	+ / -
Globally unfold/fold tags	C-c C-e / C-c C-r

n/p

d

h

Projectile (prefix : C-c p-)

Jump to any project directory

List project huffers

Jump to any project file	f
List files in project	F
List files/buffers/projects	h
	M-x helm-projectile

List project bullers	D
Jump to recent files	e
List files	g
Grep in project	s g
Multi-occur in project buffers	0
Open project buffer	(4) C-o
(in other window)	
Text replace in current project	r
Find reference	j
Prior/next buffer	
I FFT/RIGHT	

p
ESC
С
С
I
a
M/m
S
R
C-h

Compilation (*M-x* (re)compile)

Display matched location, do not switch point	C-o
Move to next error message, do not visit error	M-n
Move to previous error, do not visit location	M-p
Move to next error message, visit error location	M-g n
Move to previous error message, visit error local	tion M-g p
Visit location of error at point	RET
Move point to previous error in other file	M-{
Move point to next error in other file	M-}
Quit compilation buffer	q
Compile again (compilation buffer)	g
Abort compilation	M-x kill
	compilation

Fold / Unfold (prefix : C-c @-)

M-x hs-minor-mode

Hide/show current block	C-h/s
Toggle show lower blocks	C-l
Hide/show all blocks but first lines	C-M-h / s

Narrowing (prefix : C-x n)

Hide text below point	n
Narrow to current def	d

Un-narrow (widen)

Company-mode

M-n/p
C-w
F1
M-digit
TAB

Magit	(launch	:	C-x g)
0 [0] 0	1 f1		

1 14g10 (14441011 1 0 11 g)	
c [c a f]	Prepare for commit amend fixup
C-c [C-c C-k]	Commit Kill commit
P [-F] p	Push [force]
F [p u e]	Pull [remote upstream other]

b l Change branch View git console \$

M-p/f Previous/Next com. msg

Helm (prefix : C-c h)

Google suggests	g
Color picker	С
Imenu	i
	_

C-n/p/i/qInner navigation:

next / previous / select / quit Occur search in current buffer

(splits window vertically) Grep in buffer C-c h r

Helm mark ring C-h SPC

Custom tweaks

Carlit animal and bearing antallar	EO
Split window horizontally	F2
Set mark and deactivate region	F7 (= C-SPC C-SPC)
Circle back mark ring	F8 (=C-u C-SPC)
Circle back mark ring 2 steps	F9 (=C-u C-SPC C-u C-SPC)
Man at point	F11
Get to latest mark [and back]	M-x get-back C-u C-x C-x

M-s o

M-x d2u Apply dos2unix to current buffer Flush out double blank lines M-x d2e

Apply dos2unix to currentbuffer and flush out double blank lines M-x ddd Move end-of-line comment above line M-x move-comment-up-

blankline

Run bash on region C-M-! M-x run-bash-on-region

Recompile C-M-y Next buffer C-* Previous buffer C-\$ Render HTML in current buffer eww-rcb

Compile your current file via C-c C-c

Compile and run your

current file

(no interactive input) C-c C-r

Do not ask about saving buffers

before compile AND save all buffers (seta

compilation-ask-about-save nil)

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For GNU Emacs version 27

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