

XEmacs Reference Card

(for version 21.0+)

Starting Emacs

To enter XEmacs, just type its name: `xemacs`

To read in a file to edit, see Files, below.

Leaving Emacs

suspend Emacs (or iconify frame under X) `C-z`
exit Emacs permanently `C-x C-c`

Files

read a file into Emacs `C-x C-f`
save a file back to disk `C-x C-s`
save **all** files `C-x s`
insert contents of another file into this buffer `C-x i`
replace this file with the file you really want `C-x C-v`
write buffer to a specified file `C-x C-w`

Getting Help

The Help system is simple. Type `C-h` and follow the directions.
If you are a first-time user, type `C-h t` for a **tutorial**.

quit Help window `q`
scroll Help window `space`
apropos: show commands matching a string `C-h a`
show the function a key runs `C-h c`
describe a function `C-h f`
get mode-specific information `C-h m`

Error Recovery

abort partially typed or executing command `C-g`
recover a file lost by a system crash `M-x recover-file`
recover files from a previous Emacs session `M-x recover-session`
undo an unwanted change `C-x u` or `C-_`
restore a buffer to its original contents `M-x revert-buffer`
redraw garbaged screen `C-l`

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 `M-p`
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 done.

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Motion

entity to move over	backward	forward
character	<code>C-b</code>	<code>C-f</code>
word	<code>M-b</code>	<code>M-f</code>
line	<code>C-p</code>	<code>C-n</code>
go to line beginning (or end)	<code>C-a</code>	<code>C-e</code>
sentence	<code>M-a</code>	<code>M-e</code>
paragraph	<code>M-{</code>	<code>M-}</code>
page	<code>C-x [</code>	<code>C-x]</code>
sexp	<code>C-M-b</code>	<code>C-M-f</code>
function	<code>C-M-a</code>	<code>C-M-e</code>
go to buffer beginning (or end)	<code>M-<</code>	<code>M-></code>
scroll to next screen		<code>C-v</code>
scroll to previous screen		<code>M-v</code>
scroll left		<code>C-x <</code>
scroll right		<code>C-x ></code>
scroll current line to center of screen		<code>C-u C-l</code>

Killing and Deleting

entity to kill	backward	forward
character (delete, not kill)	<code>DEL</code>	<code>C-d</code>
word	<code>M-DEL</code>	<code>M-d</code>
line (to end of)	<code>M-0 C-k</code>	<code>C-k</code>
sentence	<code>C-x DEL</code>	<code>M-k</code>
sexp	<code>M-- C-M-k</code>	<code>C-M-k</code>
kill region		<code>C-w</code>
copy region to kill ring		<code>M-w</code>
kill through next occurrence of <i>char</i>		<code>M-z char</code>
yank back last thing killed		<code>C-y</code>
replace last yank with previous kill		<code>M-y</code>

Marking

set mark here	C-@ or C-SPC
exchange point and mark	C-x C-x
set mark <i>arg</i> words away	M-@
mark paragraph	M-h
mark page	C-x C-p
mark sexp	C-M-@
mark function	C-M-h
mark entire buffer	C-x h

Query Replace

interactively replace a text string	M-%
using regular expressions	M-x query-replace-regex

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	ESC
enter recursive edit (C-M-c to exit)	C-r
delete match and enter recursive edit	C-w

Multiple Windows

delete all other windows	C-x 1
delete this window	C-x 0
split window in two vertically	C-x 2
split window in two horizontally	C-x 3
scroll other window	C-M-v
switch cursor to another window	C-x o
shrink window shorter	M-x shrink-window
grow window taller	C-x ^
shrink window narrower	C-x {
grow window wider	C-x }
select buffer in other window	C-x 4 b
display buffer in other window	C-x 4 C-o
find file in other window	C-x 4 f
find file read-only in other window	C-x 4 r
run Dired in other window	C-x 4 d
find tag in other window	C-x 4 .

Formatting

indent current line (mode-dependent)	TAB
indent region (mode-dependent)	C-M-\
indent sexp (mode-dependent)	C-M-q
indent region rigidly <i>arg</i> columns	C-x TAB
insert newline after point	C-o
move rest of line vertically down	C-M-o
delete blank lines around point	C-x C-o
join line with previous (with <i>arg</i> , next)	M-^
delete all white space around point	M-\
put exactly one space at point	M-SPC
fill paragraph	M-q
set fill column	C-x f
set prefix each line starts with	C-x .

Case Change

uppercase word	M-u
lowercase word	M-l
capitalize word	M-c
uppercase region	C-x C-u
lowercase region	C-x C-l
capitalize region	M-x capitalize-region

The Minibuffer

The following keys are defined in the minibuffer.

complete as much as possible	TAB
complete up to one word	SPC
complete and execute	RET
show possible completions	?
fetch previous minibuffer input	M-p
fetch next later minibuffer input	M-n
regexp search backward through history	M-r
regexp search forward through history	M-s
abort command	C-g

Type C-x ESC ESC to edit and repeat the last command that used the minibuffer. The following keys are then defined.

previous minibuffer command	M-p
next minibuffer command	M-n

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Buffers

select another buffer	C-x b
list all buffers	C-x C-b
kill a buffer	C-x k

Transposing

transpose characters	C-t
transpose words	M-t
transpose lines	C-x C-t
transpose sexps	C-M-t

Spelling Check

check spelling of current word	M-\$
check spelling of all words in region	M-x ispell-region
check spelling of entire buffer	M-x ispell-buffer

Tags

find a tag (a definition)	M-.
find next occurrence of tag	C-u M-.
specify a new tags file	M-x visit-tags-table
regexp search on all files in tags table	M-x tags-search
run query-replace on all the files	M-x tags-query-replace
continue last tags search or query-replace	M-,

Shells

execute a shell command	M-!
run a shell command on the region	M-
run query-replace on all the files	C-u M-
start a shell in window *shell*	M-x shell

Rectangles

copy rectangle to register	C-x r r
kill rectangle	C-x r k
yank rectangle	C-x r y
open rectangle, shifting text right	C-x r o
blank out rectangle	M-x clear-rectangle
prefix each line with a string	M-x string-rectangle
select rectangle with mouse	M-button1

Abbrevs

add global abbrev	C-x a g
add mode-local abbrev	C-x a l
add global expansion for this abbrev	C-x a i g
add mode-local expansion for this abbrev	C-x a i l
explicitly expand abbrev	C-x a e
expand previous word dynamically	M-/

Regular Expressions

any single character except a newline	.	(dot)
zero or more repeats	*	
one or more repeats	+	
zero or one repeat	?	
any character in the set	[...]	
any character not in the set	[^ ...]	
beginning of line	^	
end of line	\$	
quote a special character <i>c</i>	\c	
alternative ("or")		
grouping	\(... \)	
<i>n</i> th group	\n	
beginning of buffer	\'	
end of buffer	\'	
word break	\b	
not beginning or end of word	\B	
beginning of word	\<	
end of word	\>	
any word-syntax character	\w	
any non-word-syntax character	\W	
character with syntax <i>c</i>	\sc	
character with syntax not <i>c</i>	\Sc	

Registers

save region in register	C-x r s
insert register contents into buffer	C-x r i
save value of point in register	C-x r SPC
jump to point saved in register	C-x r j

Info

enter the Info documentation reader	C-h i	
Moving within a node:		
scroll forward	SPC	
scroll reverse	DEL	
beginning of node	.	(dot)
Moving between nodes:		
next node	n	
previous node	p	
move up	u	
select menu item by name	m	
select <i>n</i> th menu item by number (1-5)	n	
follow cross reference (return with 1)	f	
return to last node you saw	l	
return to directory node	d	
go to any node by name	g	
Other:		
run Info tutorial	h	
list Info commands	?	
quit Info	q	
search nodes for regexp	s	

Keyboard Macros

start defining a keyboard macro	C-x (
end keyboard macro definition	C-x)
execute last-defined keyboard macro	C-x e
edit keyboard macro	C-x C-k
append to last keyboard macro	C-u C-x (
name last keyboard macro	M-x name-last-kbd-macro
insert Lisp definition in buffer	M-x insert-kbd-macro

Commands Dealing with Emacs Lisp

eval sexp before point	C-x C-e
eval current defun	C-M-x
eval region	M-x eval-region
eval entire buffer	M-x eval-current-buffer
read and eval minibuffer	M-ESC
re-execute last minibuffer command	C-x ESC ESC
read and eval Emacs Lisp file	M-x load-file
load from standard system directory	M-x load-library

Simple Customization

Here are some examples of binding global keys in Emacs Lisp.

```
(global-set-key [(control c) g] 'goto-line)
(global-set-key [(control x) (control k)] 'kill-region)
(global-set-key [(meta #)] 'query-replace-regexp)
```

An example of setting a variable in Emacs Lisp:

```
(setq backup-by-copying-when-linked t)
```

Writing Commands

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

An example:

```
(defun this-line-to-top-of-window (line)
  "Reposition line point is on to top of window.
With ARG, put point on line ARG.
Negative counts from bottom."
  (interactive "P")
  (recenter (if (null line)
                0
                (prefix-numeric-value line))))
```

The argument to **interactive** is a string specifying how to get the arguments when the function is called interactively. Type **C-h f interactive** for more information.

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designed by Stephen Gildea, April 1998 v2.0 XEmacs
for GNU Emacs version 19 on Unix systems
Updated for XEmacs in February 1995 by Ben Wing

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