

# GNU Emacs Reference Card

(for version 28)

## Key Binding Notation

In the Emacs key binding notation, **C-x** is **C-x C-k**; **M-x** is usually **A-lt-x**, **B-x** is **B-lt-P-x**, and **C-B-x** is **C-x C-B-lt-x**, etc.

## Leaving Emacs

visit Emacs (or suspend it in terminal)	<b>C-x</b>
exit Emacs permanently	<b>C-x C-x</b>

## Files

read a file into Emacs	<b>C-x C-f</b>
save a file back to disk	<b>C-x C-s</b>
save all files	<b>C-x s</b>
insert contents of another file into this buffer	<b>C-x i</b>
replace this file with the file you really want	<b>C-x C-r</b>
write buffer to a specified file	<b>C-x C-w</b>
toggle read-only status of buffer	<b>C-x C-q</b>

## 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**.

renew help window	<b>C-h i</b>
scroll help window	<b>C-B-v</b>
apropos: show commands matching a string	<b>C-h a</b>
describe the function a key runs	<b>C-h k</b>
describe a function	<b>C-h f</b>
get mode-specific information	<b>C-h m</b>

## Error Recovery

abort partially typed or executing command	<b>C-g</b>
recover files lost by a system crash	<b>M-x recover-session</b>
undo an unwanted change	<b>C-u</b> , <b>C-_,</b> or <b>C-/</b>
restore a buffer to its original contents	<b>M-x revert-buffer</b>
redraw garbled screen	<b>C-l</b>

## Incremental Search

search forward	<b>C-s</b>
search backward	<b>C-r</b>
regular expression search	<b>C-B-s</b>
reverse regular expression search	<b>C-B-r</b>
select previous search string	<b>B-g</b>
select next search string	<b>B-s</b>
exit incremental search	<b>RET</b>
undo effect of last character	<b>DEL</b>
abort current search	<b>C-g</b>

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

## Motion

	backward	forward
entity to move over		
character	<b>C-b</b>	<b>C-f</b>
word	<b>B-b</b>	<b>B-f</b>
line	<b>C-g</b>	<b>C-s</b>
go to line beginning (or end)	<b>C-a</b>	<b>C-e</b>
sentence	<b>B-a</b>	<b>B-e</b>
paragraph	<b>M- </b>	<b>M-)</b>
page	<b>C-a [</b>	<b>C-a ]</b>
wrap	<b>C-B-b</b>	<b>C-B-f</b>
function	<b>C-B-a</b>	<b>C-B-e</b>
go to buffer beginning (or end)	<b>B-^</b>	<b>B-~</b>
scroll to next screen	<b>C-v</b>	
scroll to previous screen	<b>B-v</b>	
scroll left	<b>C-g l</b>	
scroll right	<b>C-g r</b>	
scroll current line to center, top, bottom	<b>C-l</b>	
goto line	<b>M-g g</b>	
goto char	<b>M-g c</b>	
back to indentation	<b>B-a</b>	

## Killing and Deleting

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

## Marking

set mark here	<b>C-M</b> or <b>C-SPC</b>
exchange point and mark	<b>C-x C-x</b>
set mark (any marks away)	<b>M-M</b>
mark paragraph	<b>M-M</b>
mark page	<b>C-x C-p</b>
mark wrap	<b>C-B-M</b>
mark function	<b>C-B-M</b>
mark entire buffer	<b>C-x h</b>

## Query Replace

interactively replace a text string	<b>M-E</b>
using regular expressions	<b>M-x query-replace-regexp</b>
Valid responses in query-replace mode are	
replace this one, go on to next	<b>SPC</b> or <b>y</b>
replace this one, don't move	<b>.</b>
skip to next without replacing	<b>DEL</b> or <b>n</b>
replace all remaining matches	<b>!</b>
back up to the previous match	<b>^</b>
exit query-replace	<b>RET</b>
enter recursive edit (C-B-v to exit)	<b>C-v</b>

## Multiple Windows

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

delete all other windows	<b>C-x 1</b>	<b>C-x B 1</b>
split window, above and below	<b>C-x 2</b>	<b>C-x B 2</b>
delete this window	<b>C-x 0</b>	<b>C-x B 0</b>
split window, side by side		<b>C-x 3</b>
scroll other window		<b>C-B-v</b>
switch cursor to another window	<b>C-x a</b>	<b>C-x B a</b>
select buffer in other window	<b>C-x 4 b</b>	<b>C-x B b</b>
display buffer in other window	<b>C-x 4 C-o</b>	<b>C-x B C-o</b>
find file in other window	<b>C-x 4 f</b>	<b>C-x B f</b>
find file read-only in other window	<b>C-x 4 r</b>	<b>C-x B r</b>
run lisp in other window	<b>C-x 4 e</b>	<b>C-x B e</b>
find tag in other window	<b>C-x 4 .</b>	<b>C-x B .</b>
grow window taller		<b>C-x ^</b>
shrink window narrower		<b>C-x _</b>
grow window wider		<b>C-x ]</b>

## Formatting

indent current line (mode-dependent)	<b>TAB</b>
indent region (mode-dependent)	<b>C-M-i</b>
indent wrap (mode-dependent)	<b>C-M-q</b>
indent region rigidly any columns	<b>C-x TAB</b>
indent for comment	<b>B-;.</b>
insert newline after point	<b>C-o</b>
move end of line vertically down	<b>C-B-v</b>
delete blank lines around point	<b>C-x C-o</b>
join line with previous (with arg, text)	<b>B-^</b>
delete all white space around point	<b>B- </b>
put exactly one space at point	<b>M-SPC</b>
fill paragraph	<b>B-g</b>
set all columns to arg	<b>C-x f</b>
set profile each line starts with	<b>C-x .</b>

## Case Change

uppercase word	<b>B-u</b>
lowercase word	<b>B-l</b>
capitalize word	<b>B-c</b>
uppercase region	<b>C-x C-u</b>
lowercase region	<b>C-x C-l</b>

## The Minibuffer

The following keys are defined in the minibuffer.

complete as much as possible	<b>TAB</b>
complete up to one word	<b>SPC</b>
complete and execute	<b>RET</b>
show possible completions	<b>?</b>
fetch previous minibuffer input	<b>B-g</b>
fetch later minibuffer input or default	<b>B-s</b>
regrab search backward through history	<b>B-r</b>
regrab search forward through history	<b>B-s</b>
abort command	<b>C-g</b>

Type **C-x ESC RET** to edit and repeat the last command that used the minibuffer. Type **F10** to activate mouse bar icons on text terminals.

# Emacs Reference Guide

**Wolfgang Guggemos**



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## **Table of Contents Emacs Reference Guide**

1. Understanding the eBook Emacs Reference Guide
  - The Rise of Digital Reading Emacs Reference Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Emacs Reference Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Emacs Reference Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Emacs Reference Guide
  - Personalized Recommendations

- Emacs Reference Guide User Reviews and Ratings
- Emacs Reference Guide and Bestseller Lists
- 5. Accessing Emacs Reference Guide Free and Paid eBooks
  - Emacs Reference Guide Public Domain eBooks
  - Emacs Reference Guide eBook Subscription Services
  - Emacs Reference Guide Budget-Friendly Options
- 6. Navigating Emacs Reference Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Emacs Reference Guide Compatibility with Devices
  - Emacs Reference Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Emacs Reference Guide
  - Highlighting and Note-Taking Emacs Reference Guide
  - Interactive Elements Emacs Reference Guide
- 8. Staying Engaged with Emacs Reference Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Emacs Reference Guide
- 9. Balancing eBooks and Physical Books Emacs Reference Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Emacs Reference Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Emacs Reference Guide
  - Setting Reading Goals Emacs Reference Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Emacs Reference Guide
  - Fact-Checking eBook Content of Emacs Reference Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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