Starting Emacs

To enter GNU Emacs 21, just type its name: emacs To read in a file to edit, see Files, below.

Leaving Emacs

suspend Emacs (or iconify it 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 $C-w$
version control checkin/checkout	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-	٧
apropos: show commands matching a string	C-h	a
show the function a key runs	C-h	С
describe a function	C-h	f
get mode-specific information	C-h	m

Error Recovery

abort partially typed or executing comman	d	C-g
recover a file lost by a system crash	M-x	recover-file
undo an unwanted change		C-x u or C
restore a buffer to its original contents	M-x	revert-buffer
redraw garbaged screen		C-1

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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entity to move over	backward	d forward
character	C-b	C-f
word	M-b	$\mathtt{M-f}$
line	C-p	C-n
go to line beginning (or end)	C-a	С-е
sentence	M-a	М-е
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-	٠٨
scroll left	C-	·x <
scroll right	C-	·x >
scroll current line to center of screen	C-	u C-l

Killing and Deleting

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

Marking

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

Query Replace

interactively replace a text string using regular expressions	M-% M-x query-replace-regexp
Valid responses in query-replace mod replace this one, go on to next	spc
replace this one, don't move	,
skip to next without replacing	DEL
replace all remaining matches back up to the previous match	!
exit query-replace	RET
enter recursive edit (C-M-c to exit)	C-r

Trineir and communities are shown, the second	ond is for or	noi iranio.
delete all other windows	C-x	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
select buffer in other window	C-x 4 b	C-x 5 b
display buffer in other window	C-x 4 C-o	C-x 5 C-o
find file in other window	C-x 4 f	C-x 5 f
find file read-only in other window	C-x 4 r	C-x 5 r
run Dired in other window	C-x 4 d	C-x 5 d
find tag in other window	C-x 4 .	C-x 5 .
grow window taller	C-x	^
shrink window narrower	C-x	{
grow window wider	C-x	}

Formatting

indent current line (mode-dependent)	TAB
indent region (mode-dependent)	$C-M-\setminus$
indent sexp (mode-dependent)	C-M-q
indent region rigidly arg 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 arg, 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 .
set face	M-g

Case Change

uppercase word	M-u
lowercase word	M-1
capitalize word	M-c
uppercase region	C-x C-u
lowercase region	C-x C-1

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 later minibuffer input or default	M-n
regexp search backward through history	M-r
regexp search forward through history	M-s
abort command	C-g

Type C-x ESC to edit and repeat the last command that used the minibuffer. Type F10 to activate the menu bar using the minibuffer.

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-repla	ace	M-,

Shells

execute a shell command	M-!
run a shell command on the region	M-
filter region through a shell command	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	С-х г у
open rectangle, shifting text right	C-x r o
blank out rectangle	C-x r c
prefix each line with a string	C-x r t

Abbrevs

add global abbrev	C-x a g
add mode-local abbrev	C-x a 1
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-/

any single character except a ne	wline	. (dot)
zero or more repeats		*
one or more repeats		+
zero or one repeat		?
quote regular expression special	character c	$\setminus c$
alternative ("or")		\
grouping		\(\)
same text as n th group		$\setminus n$
at word break		\b
not at word break		\ B
entity	match start	match end
line	^	\$
word	\<	\>
buffer	\'	\',
class of characters	match these	match others
11 11 1		
explicit set	[]	[^]
explicit set word-syntax character	[] \w	[^] \W

International Character Sets

	set-language-environment
show all input methods	$ exttt{M-x list-input-methods}$
enable or disable input method	C-\
set coding system for next command	d C-x RET c
show all coding systems	M-x list-coding-systems
choose preferred coding system	M-x prefer-coding-system

Info	
enter the Info documentation reader find specified function or variable in Info	C-h i C-h C-i
Moving within a node:	
scroll forward scroll reverse beginning of node	SPC DEL . (dot)
Moving between nodes:	
next node previous node move up select menu item by name select nth menu item by number (1-9) follow cross reference (return with 1) return to last node you saw return to directory node go to any node by name	n p u m f 1 d g
Other:	
run Info tutorial quit Info search nodes for regexp	h q M-s

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

Keyboard Macros

start defining a keyboard macro	C-x (
end keyboard macro definition	C-x)
execute last-defined keyboard macro	C-x e
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
read and eval minibuffer M-:
load from standard system directory M-x load-library
```

Simple Customization

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

(global-set-key "\C-cg" 'goto-line)
(global-set-key "\M-#" 'query-replace-regexp)
```

Writing Commands

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

```
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