GNU Emacs Reference Card

(for version 25)

Starting Emacs

To enter GNU Emacs 25, just type its name: emacs

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 |
| toggle read-only status of buffer | 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 scroll help window | C-x 1 C-M-v |
|---|----------------|
| apropos: show commands matching a string describe the function a key runs | C-h a C-h k |
| describe a function | C-h f |
| get mode-specific information | C-h m |
| | |

Error Recovery

| abort partially typed or executing command 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-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 matched.

Motion

| entity to move over | backwa | \mathbf{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 | | С-М-е | |
| 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 | tom | C-1 | | |
| goto line | | M-g | g | |
| goto char | | M-g | С | |
| back to indentation | | M-m | | |
| | | | | |

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-w | ī |
| copy region to kill ring | M-M | ī |
| kill through next occurrence of char | M-z | char |
| yank back last thing killed | C-2 | 7 |
| replace last yank with previous kill | м-у | 7 |

Marking

| set mark here | C-@ or C-SP |
|---------------------------|-------------|
| exchange point and mark | C-x C-x |
| set mark arg 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-regexp |
| Valid responses in query-replace n | 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) C-r |

Multiple Windows

| Tribulation committee and proving the | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 10 00 0. | | | |
|---------------------------------------|---|---|----------|-----|---|----|
| mand 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 | 0 | | C-x | 5 | 0 |
| 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- |
| 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 | } | | |
| | | | | | | |

When two commands are shown, the second is a similar com-

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 | M-; |
| 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 to arg | C-x f |
| set prefix each line starts with | C-x . |
| set face | M-o |
| | |

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 | М-р |
| 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 ESC to edit and repeat the last command that used the minibuffer. Type F10 to activate menu bar items on text terminals.

GNU Emacs Reference Card

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 |
| toggle on-the-fly spell checking | M-x flyspell-mode |

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-repl | ace M-, |

Shells

| execute a shell command | M-! |
|--|-----------|
| execute a shell command asynchronously | 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 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 | С-хае |
| expand previous word dynamically | M-/ |

Miscellaneous

| numeric argument | ${\tt C-u}$ num |
|-------------------|-------------------|
| negative argument | M |
| quoted insert | C-q char |

Regular Expressions

| any single character except | a newline | \cdot (dot) |
|------------------------------|---------------------|---------------|
| zero or more repeats | | * |
| one or more repeats | | + |
| zero or one repeat | | ? |
| quote special characters | | \ |
| quote regular expression spe | ecial character c | $\setminus c$ |
| alternative ("or") | | \1 |
| grouping | | \(\) |
| shy grouping | | \(:? \) |
| explicit numbered grouping | | \(:NUM \) |
| same text as n th group | | $\setminus n$ |
| at word break | | \ b |
| not at word break | | \B |
| entity | match start | match end |
| line | ^ | \$ |
| word | \< | \> |
| symbol | _< | _> |
| buffer | \' | \', |
| class of characters | match these | match others |
| explicit set | [] | [^] |
| word-syntax character | \w | \W |
| character with syntax c | $\scalebox{1}{s}c$ | \Sc |

International Character Sets

character with category $c \setminus cc$

| specify principal language | C-x RET 1 |
|---------------------------------|--------------------------|
| show all input methods | M-x list-input-methods |
| enable or disable input method | C-\ |
| set coding system for next comm | and C-x RET c |
| show all coding systems | M-x list-coding-systems |
| choose preferred coding system | M-x prefer-coding-system |

 \Cc

Info

| enter the Info documentation reader | C-h i |
|---|-------|
| find specified function or variable in Info | C-h S |
| Moving within a node: | |
| scroll forward | SPC |
| scroll reverse | DEL |
| beginning of node | b |
| Moving between nodes: | |
| next node | n |
| previous node | p |
| move \mathbf{up} | u |
| select menu item by name | m |
| select n th menu item by number $(1-9)$ | n |
| follow cross reference (return with 1) | f |
| return to last node you saw | 1 |
| return to directory node | d |
| go to top node of Info file | t |
| go to any node by name | g |
| Other: | |
| run Info tutorial | h |
| look up a subject in the indices | i |
| search nodes for regexp | s |
| quit Info | q |
| | |

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 |

Keyboard Macros

| start defining a keyboard macro | C-x (|
|------------------------------------|-------------------------|
| end keyboard macro definition | C-x) |
| execute last-defined keyboard made | cro 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 | | 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

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

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