# **EMACS Cheatsheet** For version 25

#### Command line options

--visit=<filespec> | --file= <filespec> | <filespec>

editing.

# +row[:column]

Move point to line number row and (optional) horizontal position column in current buffer at point. the file (default is +1:1).

#### --insert <file>

Insert file at the beginning of the buffer.

#### --load <file> | -l <file>

Execute the Emacs Lisp instructions in file.

#### --g <dimensions> | --geometry <dimensions>

Set the window's width, height, and position according to the given X window dimensions (the default is to make the window 80x40 characters).

#### -nw | --no-windows

In X, don't use an X client window, but open in the current terminal window instead. This option doesn't affect console sessions.

#### **Prefixes**

C-c

editing mode

C-x

Commands for files and buffers

C-h

Help commands

M-x

Literal function name

M-! shell-command C-x k Execute external shell command from Kill a buffer (the current buffer, by C-v | PgDn within Emacs. The output from the shell default). command is displayed in the minibuffer C-x C-q argument (e.g, C-u M-!), the shell-applicable). command output is inserted in the C-x i

shell-command-on-region C-x z Provide the region text to the shell command as input. If you want the shell to replace the region text with the output from the shell command, use C-u M-1.

#### **Buffer and files functions**

C-x C-ffind-file Visit a file.

save-buffer C-x C-s Save current buffer to disk.

C-x C-w

Ask for a filename and write the current buffer with that name. Like the C-p | UpArrow command "Save as ..." on other editors.

Ask about saving all unsaved buffers to Move point down to the next line. disk.

C-x C-cCommands particular to the current Ask about saving all unsaved buffers to character. disk and exit Emacs.

> $C-xC-z \mid C-z$ Suspend Emacs and make it a character. background process (press fg | fg M-f | C-RightArrow forward-word group. **%emacs** to awake it back.

C-x C-bList all buffers.

*kill-buffer* word.

vc-toggle-read-only M-v | PgUp Open filespec into individual buffers for or in a separate buffer, depending on the Toggle read-only status on the current Scroll the text downward by a screen. output size. When used with a prefix buffer (and perform version control if C-Home

Insert the contents of a file at point.

Repeat recently executed C-End most command.

C-x M-: | C-x M-ESC Edit and re-evaluate last complex current line.) command. A complex command is one Home | C-a which used the minibuffer. The Move point to the beginning of the line. command is placed in the minibuffer as End | C-e a Lisp form for editing. The result is Move point to the end of the line. executed, repeating the command as M-a changed.

#### Movement and navigation

previous-line Move point up to the previous line.

save-some-buffers C-n | DownArrow next-line

forward-char C-f | RightArrow save-buffers-kill-emacs Move point forward to the next

> C-b | LeftArrow back-char suspend-emacs Move point backward to the previous C-M-n

> > Move point forward to the next word.

list-buffers M-b | C-LeftArrow backward-word Move point backward to the previous

> scroll-up Scroll the text upward by a screen.

scroll-down

beginning-of-buffer Move point to the beginning of the insert-file buffer. (On some versions, this key is defined by default to move to the repeat beginning of the current line.)

end-of-buffer Move point to the end of the buffer. repeat-complex- (On some versions, this key is defined command by default to move to the end of the

beginning-of-line

end-of-line

beginning-of-sentence Move point to the beginning of the sentence.

end-of-sentence Move point to the end of the sentence.

beginning-of-paragraph C-{ Move point to the beginning of the paragraph.

end-of-paragraph Move point to the end of the paragraph.

# Navigating over balanced expressions

forward-list Move forward over a parenthetical

C-M-pbackward-list 1 Move backward over a parenthetical Functions for marking and killing text C-u C-space pop-to-mark-command Esc Tab | M-Tab group.

C-M-fMove forward over a balanced C-k expression.

backward-sexp line. C-M-bMove backward over a balanced C-w expression.

C-M-kkill-sexp M-w Kill balanced expression forward.

C-M-SPC mark-sexp Put the mark at the end of the sexp.

#### Common editing commands

overwrite-mode Ins Toggle overwrite mode (default is off).

Delete the character before point.

delete-char C-x r k C-dDelete the character at point.

M-dDelete the characters from point C-xrd forward to the end of the word.

M-Backspace M-Del

backward to the beginning of the word.

C-\_ Undo your last typing or action.

quoted-insert C-q[CHAR] or [NUM] Insert, at point, the literal character keypress or the character whose octal C-xry value is XXX.

C-u[NUM] [COMMAND] Execute command a total of number (default 4) times in succession.

C-Space

forward-sexp Set the mark at point.

kill-region M-Q Kill the region.

kill-ring-save the current word. Save the region in the kill ring, but M-h don't kill it.

C-y

Yank text from the kill ring.

#### Commands for using rectangles

set-mark-command C-space Backspace | Del delete-backward-char Marks one corner of a rectangle (point marks the opposite corner).

> kill-rectangle Kills the current rectangle and saves it in [NUM] C-k kill-word a special rectangle buffer.

Deletes the current rectangle and if negative, kills in reverse (not sure for This command transposes the single backward-kill- doesn't save it for yanking.

word C-xrc clear-rectangle M-k the entire area with whitespace.

undo C-xro open-rectangle M-z Opens the current rectangle, filling the Zaps all text from point to the specified This command transposes the line at entire area with whitespace and moving character. all text from the rectangle to the right.

Yanks the contents of the last-killed [NUM] C-y universal- rectangle at point, moving all existing Yanks the specified slot in the kill ring. argument text to the right.

## Advanced mark and selection commands

set-mark-command Moves to the previous mark in the mark Esc S | M-S ring.

kill-line C-x C-x exchange-point-and-mark Kill all text from point to the end of the Swaps the location of point and the mark.

Marks all text from point to the end of

mark-paragraph Marks the current paragraph, regardless vank of the location of point.

> transient-mark-mode Toggles Transient Mark mode.

> mark-whole-buffer Marks the entire buffer, regardless of the location of point.

#### Advanced kill and yank commands

Kills integer number of lines. If 0, kills delete-rectangle from point to the beginning of the line; version 25).

kill-sentence M-t Delete the characters from point Clears the current rectangle, replacing Kills from point to the end of the sentence.

zap-to-char

yank-pop M-~ M-y*yank-rectangle* Moves to the next slot in the kill ring.

# Text mode key bindings

#### Esc

Prefix for mode-specific commands

ispell-complete-word center-paragraph Escs | M-s center-line

# Text manipulation commands

C-x C-i | C-x Tab indent-rigidly This command indents lines in the region (or at point).

fill-region

This command fills all paragraphs in the region.

fill-paragraph M-qThis command fills the single paragraph at point.

delete-horizontal-space M-\ This command removes any horizontal space to the right and left of point.

C-o open-line This command opens a new line of kill-line vertical space below point, without moving point.

> transpose-chars characters to the right and left of point.

transpose-words This command transposes the single words to the right and left of point.

C-x C-ttranspose-lines point with the line before it.

delete-indentation This command joins the line at point *yank* with the previous line. Preface with C-1 to join the line at point with the next line.

> M-uuppercase-word This command converts the text at point 2 to the end of the word to uppercase

letters.

M-1downcase-word C-M-s This command converts the text at point Incrementally search forward through to the end of the word to lowercase the buffer for a given regular expression. letters.

C-x C-1This command converts the region to the buffer for a given regular expression. lowercase letters.

C-x C-u uppercase letters.

#### Search and replace commands

C-s [STRING] [C-w] isearch-[C-v] forward Incrementally search forward through the buffer for string (default is the last search string you gave, if any); C-w uses the text from point forward to the end of the word and C-y uses everything from point to the end of the line.

C-r [STRING] [C-w] isearch-[C-v] backward Incrementally search backward through the buffer for string (default is the last search string you gave, if any); C-w uses the text from point forward to the end of the word, and C-y uses everything from point to the end of the line.

C-s Enter C-w [WORD word-search-OR PHRASE] forward Search forward through the buffer for the given word or phrase, regardless of spacing.

C-r Enter C-w [WORD word-search-OR PHRASE] backward Search backward through the buffer for the given word or phrase, regardless of

spacing.

isearch-forward-regexp

isearch-backward-regexp \| or \w C-M-rdowncase-region Incrementally search backward through replace-string

upcase-region Search for a given string from point to This command converts the region to the end of the buffer and replace it with a given string.

replace-regexp

Search for a given regular expression from point to the end of the buffer and replace it with a given string.

query-replace Search for a given string from point to the end of the buffer and, in each instance, query to replace it with a given string.

query-replace-regexp C-M-% Search for a given regular expression from point to the end of the buffer and, in each instance, query to replace it with a given string.

#### Regular expressions

\* previous character or group, repeated 0 or

any character (but newline)

more time + previous character or group, repeated 1 or more time ? previous character or group, repeated 0 or 1 time

start of line end of line any character between brackets

any character not in the brackets [:lower:] [^..] [a-z] any character between a and z [:graph:] prevents interpretation of following [:print:] special char word constituent [:space:] word boundary character with c syntax (e.g. \s- for whitespace char) \(\) start\end of group start\end of word (faulty rendering: \< backslash + less-than and backslash + \\_<\\_> start\end of symbol \s-\'\' start\end of buffer\string string matched by the first group \1 string matched by the nth group \s. n\{3\} previous character or group, repeated \s( 3 times \{3,\} previous character or group, repeated 3 or more times previous character or group, \s/ \{3,6\} repeated 3 to 6 times match succeeds if it is located at point \s; \*?, +?, and non-greedy versions of  $^*$ , +, ascii character \ca \Ca non-ascii character (newline included) \cl latin character greek character a digit, same as [0-9] (\d is [:digit:] a letter (an alphabetic [:alpha:] character) a letter or a digit (an [:alnum:] alphanumeric character) a letter in uppercase [:upper:]

a letter in lowercase a visible character a visible character plus the space character a whitespace character, as defined by the syntax table, but typically  $\lceil \langle t \rangle r \rangle f \rceil$ , which includes the newline character [:blank:] a space or tab character [:xdigit:] an hexadecimal digit [:cntrl:] a control character greater-than) [:ascii:] an ascii character whitespace character word constituent symbol constituent punctuation character open delimiter character \s) close delimiter character string quote character \s\ escape character character quote character \s\$ paired delimiter expression prefix comment starter comment ender generic comment delimiter generic string delimiter

#### Regex examples

[-+[:digit:]] digit or + or - sign not supported) \(\+\|-\)?[0-9]+ decimal number \(\.[0-9]+\)? (-2 or 1.5 but not .2 or 1.) \<\(\\M+\) two consecutive, identical +\1\> words

trailing whitespaces (note the starting words before point as its expansion. \w\{20,\} word with 20 letters or more Similar, but define an abbrev specific to word ending by phony \w+phony\> \(19\|20 \)[0-9]\{2\} at least 6 symbols ^.\{6,\} decent string for a ^[a-zA-Z0-9\_]\ user name  ${3,16}$ html <tag[^> C-q C-j ]\*>\(.\*? \)</tag> tag

#### Registers commands

C-x r space X Save point to register X.

copy-to-register enabled. C-xrsXSave the region to register X.

C-xrrXSave the selected rectangle to register X. region.

view-register

View the contents of a given register.

C-xrjX Move point to the location given in abbrevs. register X.

C-xriX Insert the contents of register X at or remove definitions. point.

#### **Abbreviations**

#### (setq-default abbrev-mode t)

Write this into .emacs to switch abbrev minor mode on at start-up.

abbrev-mode

Toggles Abbrev mode; with a numeric argument, it turns Abbrev mode on if the argument is positive, off otherwise.

\<[[:upper:]]\w\* word starting with C-x a g an uppercase letter Define an abbrey, using one or more Set a bookmark named Bookmark.

> SPC) C-x a 1 the current major mode.

vear C-xaig inverse-add-global-abbrev C-xrbBookmark 1900-2099 Define a word in the buffer as an abbrev. Jump to the location set in the C-xail Define a word in the buffer as a modespecific abbrev.

> abbrev-prefix-mark Separate a prefix from a following abbrev to be expanded.

C-xae expand-abbrev point-to-register Expand the abbrev before point. This is effective even when Abbrev mode is not

expand-region-abbrevs copy-rectangle-to-register Expand some or all abbrevs found in the

list-abbrevs

Display a list of all abbrev definitions. jump-to-register With a numeric argument, list only local

edit-abbrevs

insert-register Edit a list of abbrevs; you can add, alter

M-/dabbrev-expand Expand the word in the buffer before point as a dynamic abbrev, by searching for words starting with abbreviation.

dabbrev-completion C-M-/Complete the word before point as a dvnamic abbrev.

#### **Bookmarks** commands

add-global-abbrev C-xrmBookmark

C-xrlbookmarks-bmenu-list add-mode-abbrev List all saved bookmarks.

Delete a bookmark.

inverse-add-mode-abbrev bookmark named Bookmark.

hookmark-save

Save all bookmarks to the bookmark file, ~/.emacs.bmk.

# Window-manipulation commands

split-window-vertically C-x2Split the current window in half across the middle, stacking the new buffers vertically.

C-x 4 b switch-to-buffer-other-window Split the current window in half vertically, prompting for the buffer to use the bottom window and making that the active window.

C-x 4 C-o display-buffer Display a buffer in another window, prompting for the buffer to use the other window but keeping the current window active. (If only one window exists, then split the window vertically to display the other buffer.)

C-x 4 f find-file-other-window Open a new file in a new buffer, drawing it in a new vertical window.

C-x 4 r find-file-read-only-other-window Open a new file in a new read-only buffer, drawing it in a new vertical window.

C-M-vscroll-other-window

bookmark-set Scroll to the window that would be the next one to switch to with C-x o.

scroll-all

Toggle the scroll-all minor mode. When bookmark-delete it's on, all windows displaying the buffer in the current window are scrolled bookmark-jump simultaneously and in equal, relative amounts.

> C-x o other-window Move the cursor to the next window, and make it the active window.

> C-x0delete-window Delete the current window, and move the cursor to the window that would be the next one to switch to with  $C-x \circ .$

> C-x 1 delete-other-windows Delete all windows except the current window.

> C-x 4 0kill-buffer-and-window Delete the current window, and kill its buffer.

> C-x 3 split-window-horizontally Split the current window in half down the middle, stacking the new buffers horizontally.

> > follow-mode

Toggle follow, a minor mode. When it's on in a buffer, all windows displaying the buffer are connected into a large virtual window.

 $C-x^{}$ enlarge-window Make the current window taller by a line; preceded by a negative, this makes the current window shorter by a line.

C-x } shrink-window-horizontally Make the current active window thinner by a single column.

enlarge-window-horizontally C-x { Make the current active window wider C-x w h [regexp] <RET> by a single column.

C-x

Reduce the current active window to the remain as long as the buffer is loaded. smallest possible size for the buffer it C-xwr [regexp] contains.

C-x +balance-windows Balance the size of all windows, making C-xwl [regexp] them approximately equal.

Compare the current window with the next window, beginning with point in both windows and moving point in both buffers to the first character that differs until reaching the end of the buffer.

#### Shell commands

M-! < cmd >display the output.

shell-command-on-region M-1 < cmd >Run the shell command line cmd with region contents as input; optionally replace the region with the output.

through an Emacs buffer. You can then indentation is two spaces per level. give commands interactively.

Run a subshell with input and output the same process as for tab. through an Emacs buffer. You can then C-c C-f give commands interactively. Full Insert an end tag for whatever element terminal emulation is available.

Start the Emacs shell.

#### Interactive Highlighting

[face] <RET> shrink-window-if-larger-than- Highlight text that matches regexp C-c buffer using face face. The highlighting will C-b

> <RET> regexp Unhighlight regexp.

highlight-lines- M-q <RET> [face] <RET> matching-regexp compare-windows Highlight entire lines containing a cursor. match for regexp, using face face.

#### nXML mode

C-c C-nrng-next-error Move to the next location where the document structure is not valid.

C-c C-v rng-validate-mode shell-command Turn validation on or off. If validation is Run the shell command line cmd and turned on, in the status line's mode area you will see either "nXML Valid" or "nXML Invalid". If validation is turned off, neither word will appear after "nXML" in the mode line.

indent-for-tab-command tab shell Indent the current line according to the Run a subshell with input and output level of nested block tags. The

> $M-C-\setminus$ indent-region term Indent all the lines in the region using

> > nxml-finish-element the cursor is in.

nxml-balanced-close-start-tageshell C-c C-i inline This command adds the closing ">" and

an end tag, and then places the cursor Reverses the action of C-c C-o C-d, regexp content.

nxml-balanced-close-start-tag-

Adds the closing ">", then a blank line, unhighlight- then an end tag on yet another separate line. The cursor is left indented at the proper level on the central blank line.

> fill-paragraph Reformat the paragraph containing the

> C-c C-xnxml-insert-xml-declaration Inserts an XML processing instruction at the top of the file.

> M-C-fforward-sexp Move forward over tag.

> M-C-b backward-sexp Move backward over tag.

> nxml-forward-element M-C-nMove the cursor to the end of the next element.

> nxml-backward-element Move the cursor before the previous element.

nxml-down-element Move the cursor to the next included element after point, to a position just after the start tag; d is for "down."

nxml-backward-up-element M-C-uMove the cursor to a position just before the start tag of the element containing point; u is for "up."

C-c C-o C-d nxml-hide-subheadings Hide the children of the current workstation; the default value is nil. element, as in emacs outline-mode.

nxml-hide-subheadings C-c C-o C-s

highlight- between the tags so you can type the revealing the children of the current element.

## Managing variables

set-variable

Ask for a variable to change and for the needed value.

auto-mode-alist

If set to *nil*, automatic selection of major mode based on file name extension is turned off. Its default value is a list of file name extensions and corresponding modes.

auto-save-default

If not set to nil, Emacs automatically saves a changed buffer to its corresponding file at preset intervals. Its default value is t.

auto-save-interval

Contains the number of character changes after which Auto-save mode, if true, is invoked; the default value is 300.

calendar-latitude

Contains the latitude value for the location of the user's workstation, in degrees; the default value is *nil*.

calendar-longitude

Contains the longitude value for the location of the user's workstation, in degrees; the default value is *nil*.

calendar-location-name

Contains the value for the location name (such as city, state, and country) the location of the user's

colon-double-space

If not set to *nil*, commands for filling 5

text insert two spaces after a colon with the current day of the week, instead of one. The default value is nil.

Contains the list of arguments used in minute. The default value is nil. the command line that executed the current Emacs session.

command-line-default-directory Contains the path name of the directory to the next line. The default value is 70. from which the current Emacs session was executed.

compare-ignore-case

If not set to nil, Emacs ignores value is lisp-interaction-mode. differences in uppercase and lowercase installment of this series Resources). The default value is nil.

If set to nil, Emacs doesn't ask for a ring. confirmation when exiting; otherwise, such as *y-or-n-p*. The default value is *nil*. 60.

default-justification

Sets the default justification style. The If not set to nil, the kill-line function full, or none. The default value is left.

files or buffers. The default value is is nil. fundamental-mode.

standard 12-hour format with AM or character (\*) appended to the end. PM suffix. The default value is *nil*.

display-time-day-and-date If not set to nil, Emacs displays time

current month, and current day of the Contains the contents of the current system bell. The default value is nil. command-line-args month, instead of just the hour and mark ring of the buffer.

each line where text begins to be filled value is 16.

\*scratch\* buffer on startup. The default value is nil.

(see value is *nil*.

confirm-kill-emacs Contains the contents of the Emacs kill

kill-whole-line

value can be one of left, right, center, (bound to C-k) kills the current line and its trailing newline character, if the default-major-mode function is executed at the very Selects the default major mode for new beginning of the line. The default value

make-backup-files

display-time-24hr-format If not set to nil, Emacs saves a backup of If set to t, Emacs displays time in 24- a buffer before any changes are made to hour military format, instead of the a file of the same name but with a tilde

Contains the number for the column on entries in the mark ring. The default the X Window System cut buffer. The

mouse-avoidance-mode

initial-major-mode Contains a value describing the type of Specifies the major mode to use for the mouse-avoidance mode. The default

next-line-add-newline

inverse-video If not set to nil, Emacs adds a new line letters when running the compare- If not set to nil, Emacs inverts the whenever the down arrow is pressed at windows function, as described in fifth display colors, if possible. The default the end of the buffer. The default value is nil (in more recent versions of kill-ring Emacs).

scroll-bar-mode

Contains the value for the side of the kill-ring-max Emacs frame on which to place the the exit verification might be Sets the number of allowable entries in scroll bar: right or left. If set to nil, the customized as an Emacs Lisp function the Emacs kill ring. The default value is scroll bar is turned off. The default value is left.

scroll-step

Contains the number of lines to move through the buffer lines with the scrolldown and scroll-up functions (which are bound to the PgDn and PgUp keys by default). If set to 0, Emacs centers point in the middle of the window when scrolling.

show-trailing-whitespace

If not set to nil, Emacs makes any whitespace at the end of lines in the current buffer visible. The default value is nil.

visible-bell

If not set to nil, Emacs makes the frame

mark-ring blink instead of ringing the audible

*x-cut-buffer-max* 

*mark-ring-max* Sets the maximum number of characters fill-column Contains the number of allowable from the kill ring that are also stored in default value is 20000.

#### **Interface functions**

column-number-mode

Toggle the display, in the mode line, of the current column the cursor is at, preceded by a C. The default value is nil.

display-time

Toggle the display of the current time in the mode line. The default value is nil.

font-lock-mode

If not set to nil, Emacs turns on the Font Lock mode automatically for the current buffer. The default value is nil.

global-font-lock-mode

If not set to nil, Emacs turns on the Font Lock mode automatically for all buffers. The default value is *nil*.

line-number-mode

Toggle the display, in the mode line, of the current line the cursor is at, preceded by an L. The default value is t.

show-paren-mode

Allows one to see matching pairs of parentheses and other characters. When point is on one of the paired characters, the other is highlighted.

menu-bar-mode

Toggle the display of the Emacs menu bar. The default value is *t*.

sunrise-sunset

Display the time of today's sunrise and

sunset for the current geographic location. If preceded with the Tab prompts for a specific day.

Toggle the display of the Emacs toolbar. values for the given command. The default value is *t*.

#### **Customize functions**

customize-changed-options < Enterversion> Open a new customization buffer for all faces, options, or groups that have been changed since the version of Emacs given by version.

customize-customized

Open a new customization buffer for all options and faces that have already been customized but haven't been saved to disk.

customize-face <Enter> <regexp> Open a new customization buffer for all the face, option, or groups relevant to the regular expression given by <regexp>.

customize-face <Enter> <face> Open a new customization buffer for the face name given by **<face>**.

customize-group <Enter> <group> Open a new customization buffer for the group name given by <group>.

customize-option <Enter> <option> Open a new customization buffer for the option name given by <option>.

customize-saved

Open a new customization buffer for all faces and options that you've changed with the Customize function.

#### Help commands

completion if given as part of a in a new help buffer window. tool-bar-mode command, showing all possible input C-hf <function>

## <command prefix> or <keystroke> C-h

This command describes all the possible C-h v <variable> <keystroke>.

C-h c <keystroke> describe-key-briefly C-h w <function> This command reports in the minibuffer This command of function the name <keystroke>is bound to.

C-h k <keystroke> <keystroke> is bound to.

C-h 1 view-lossage This command opens a new buffer and displays the last 100 characters typed.

open-dribble-file

This command opens a specified file and dribbles a copy of all keyboard input to that file.

This command gives a list of apropos commands and variables to a given regexp.

C-h a <regexp> command-apropos This command gives a list of apropos commands to regexp.

describe-bindings U C-h b This command describes all the valid This command moves to the current universal-argument, this function This command performs command key bindings for the current major mode node's Up node.

> This command describes the purpose of node. <function> in a new help buffer L window.

describe-variable vou visited. commands and functions available for This command describes the purpose of T the given <command prefix> or <variable> in a new help buffer This command moves to the Top node window.

> where-is > that keyboard binding (if any) a particular pointed to in the current document. <function> is bound to.

describe-kev C-h s | F1 s This command opens a new help-buffer Display the Emacs Syntax Table for the current node by a single screen; if at the window that describes the function that current mode (useful for the matching end of the node, then move to the Next parentheses commands).

#### **INFO** commands

Info-help This command opens a hands-on Info tutorial in a new buffer.

Info-exit This command moves to the last buffer you visited, putting the \*info\* buffer in the end of the buffer list.

#### <Enter>

This command follows the cross reference at or near point.

Info-next This command moves to the current node's Next node.

Info-prev This command moves to the current node's Previous node.

Info-up

Info-directory describe-function This command moves to the Directory

> Info-last This command moves to the last node

> Info-top-node of the current document.

Info-final-node describes which This command moves to the final node

<Spacebar> Info-scroll-up describe-syntax This command moves forward in the node.

> <Backspace> Info-scroll-down This command moves backward in the current node by a single screen; if at the beginning of the node, then move to the Previous node.

> beginning-of-buffer This command goes to the beginning of the current node.

> Info-search This command searches forward in the current Info document for a given regexp.

> Tab Info-next-reference This command moves the cursor forward to the first cross reference.

Info-prev-reference M-Tab This command moves the cursor 7 5x5

**Documentation files** 

describe-distribution C-h C-d File DISTRIB: Information on obtaining a copy of the latest distribution of the Emacs software

C-h F view-emacs-faq /usr/share/info/; emacsmainversion/efaq.gz Emacs FAQ describe-copying C-h C-c File COPYING: GNU General Public License (GNU GPL)

C-h C-w describe-no-warranty Section "NO File COPYING: WARRANTY" of the GNU General Public License (GNU GPL)

C-h n view-emacs-news File NEWS: News concerning the latest changes in the current version of Emacs C-h P view-emacs-problems File PROBLEMS: Emacs problems file describe-project File THE-GNU-PROJECT: Essay by Richard Stallman concerning the founding of the GNU Project

help-with-tutorial C-h t learning the basics of Emacs

# Things you should never know about

hanoi

The hanoi tower, with a default of 3 discs; M-x hanoi-unix and M-x hanoi-unix-64 uses the timestamp, making a move each second in line with the clock, and with the latter pretending it uses a 64-bit clock.

cross already filled-in; your goal is to fill break simple substitution ciphers (like board, by taking a stone (the o) and all the cells by toggling them on and off cryptogram puzzles) using a helpful user "jumping" over an adjacent stone into in the right order to win. With an interface. optional digit argument you can change the size of the grid.

A fancy birthday present animation.

butterfly

butterfly command, a command "Doctor" tries to psychoanalyze what added to Emacs as an homage to the you say and attempts to repeat the You can configure a screensaver idle XKCD strip at www.xkcd.com/378/

The object of the game is to find four hidden balls by shooting rays into the black box. There are four possibilities: 1) undisturbed, 2) it will hit a ball and be adventure game. absorbed, 3) it will be deflected and exit the box, or 4) be deflected immediately, You have to connect 5 squares, tic-tacnot even being allowed entry into the toe style. You can customize the group box.

bubbles

You must clear out as many "bubbles" as you can in as few moves as possible. File TUTORIAL: Hands-on tutorial for When you remove bubbles the other bubbles drop and stick together. You can configure the difficulty of the game by calling bubbles-set-M-xgame-<difficulty> where <difficulty> is one of: easy, medium, difficult, hard, or userdefined. Furthermore, you can alter the graphics, grid size and colors using Customize: M-x customize-group bubbles.

You are given a 5x5 grid with a central It's a (very complex) package to help you to end up with just one stone on the

animate-birthday-present takes your buffer, runs it through a a handy solver built in called M-x blender, and displays the result.

doctor

question back to you. It simulates a time by running M-x zone-when-idle Rogerian psychotherapist and uses rules, (or calling it from elisp) with an idle dictated into a script, to respond with time in seconds. You can turn it off with non-directional questions to user inputs.

dunnet

gomoku

gomoku to adjust the size of the grid.

Conway's Game of Life is a famous example of cellular automata. The Emacs version comes with a handful of starting patterns that you can (programmatically with elisp) alter by adjusting the life-patterns variable.

pong | snake | tetris

These classic games are all implemented using the Emacs package gamegrid, a generic framework for building gridbased games like Tetris and Snake.

solitaire

decipher It is a peg-based game where you have the hole (the .), removing the stone you dissociated-press jumped over in the process. Rinse and It's a semi-randomizing algorithm that repeat until the board is empty. There is solitaire-solve if you get stuck.

zone

The animate package is also used by M-x Based on the original ELIZA, the A series of screensavers. Type M-x zone and watch what happens to your screen! M-x zone-leave-me-alone.

mpuz

the ray will pass thru the box Emacs's very own Zork-like text A multiplication puzzle where you have to replace the letters with numbers and ensure the numbers add (multiply?) up. You can run M-x mpuz-showsolution to solve the puzzle if you get stuck.

morse-region

Translates a region into morse code. Undo (C-S-\_) or M-x unmorseregion to unmorse.

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For more Emacs documentation see the Emacs distribution or http://www.gnu.org/software/emacs For the XML-XSLT source for this cheat sheet see https://github.com/PeteZaSayari/emacs-cs.