

crasis(1)

NAME

crasis - a shell script

SYNOPSIS

Documentation automatically generated with `zshelldoc'

FUNCTIONS

```
-zcrasis_action_add_plugin
-zcrasis_action_add_snippet
-zcrasis_action_compact_mode
-zcrasis_action_debug_view
-zcrasis_action_delete
-zcrasis_action_delete_mode
-zcrasis_action_edit_mode
-zcrasis_action_move_down
-zcrasis_action_move_up
-zcrasis_action_options_view
-zcrasis_action_preview
-zcrasis_action_reload
-zcrasis_action_save
-zcrasis_action_save_options
-zcrasis_clear_visual_state
-zcrasis_compose
-zcrasis_dbg_msg
-zcrasis_dbg_msg_arr
-zcrasis_generator_0
-zcrasis_generator_A
-zcrasis_generator_B
-zcrasis_generator_DBG
-zcrasis_generator_OPT
-zcrasis_info
-zcrasis_process_theme
-zcrasis-process-zinit-commands
-zcrasis-process-zsh-rc
-zcrasis_refresh2_all_string
-zcrasis_set_zui_settings
-zcrasis_switch_layout
-zcrasis_switch_theme
-zcrasis_tokenization_failed
-zcrasis-tokenize-zsh-rc
-zcrasis_update_ice_cmd
-zcrasis_update_main_cmd
-zcrasis_util_swap
-zcrasis_verify_tokenization
AUTOLOAD is-at-least
AUTOLOAD -zcrasis-process-buffer
```

DETAILS

Script Body

Has 163 line(s). Calls functions:

```

Script-Body
|-- -zcrasis_action_reload
|   |-- -zcrasis_clear_visual_state
|   |-- -zcrasis_dbg_msg
|   |-- -zcrasis_dbg_msg_arr
|   |-- -zcrasis-process-zinit-commands
|   |   '-- -zcrasis_dbg_msg
|   |-- -zcrasis-process-zsh-rc
|   |-- -zcrasis_refresh2_all_string
|   |-- -zcrasis_tokenization_failed
|   |-- -zcrasis_tokenize-zsh-rc
|   |   '-- -zcrasis-process-buffer
|   |       '-- -zcrasis_dbg_msg
|   '-- -zcrasis_verify_tokenization
|-- -zcrasis_dbg_msg
|-- -zcrasis_dbg_msg_arr
|-- -zcrasis_process_theme
|   |-- -zcrasis_dbg_msg
|   '-- -zcrasis_dbg_msg_arr
'-- -zcrasis_set_zui_settings
    '-- is-at-least

```

Uses feature(s): *autoload, wait*

-zcrasis_action_add_plugin

```

# Adds plugin to $cmdlist and refreshes the view. So it
# creates a packet with "zplg load ..." main command.
# Ice command can be added by editing actions.

```

Has 18 line(s). Calls functions:

```

-zcrasis_action_add_plugin
|-- -zcrasis_clear_visual_state
|-- -zcrasis_dbg_msg
'-- -zcrasis_refresh2_all_string

```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_add_snippet

```

# Adds snippet to $cmdlist and refreshes the view.
# So it creates a packet with "zplg snippet ..."
# main command.

```

Has 18 line(s). Calls functions:

```
-zcrasis_action_add_snippet  
|-- -zcrasis_clear_visual_state  
|-- -zcrasis_dbg_msg  
'-- -zcrasis_refresh2_all_string
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_compact_mode

```
# Switches the entry list to compact-mode. In this mode,  
# only a single line per plugin/snippet/etc. is displayed.
```

Has 8 line(s). Calls functions:

```
-zcrasis_action_compact_mode  
'-- -zcrasis_refresh2_all_string
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_debug_view

```
# Enters or leaves debug view. Plugin-list view is muted  
# by setting module 2 factor to 0 - factor is the number  
# of instances of a module to create, i.e. number of calls  
# to module's generator. Debug module (#4) obtains factor 1.  
# On disable, normal factors are restored.
```

Has 35 line(s). Doesn't call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_delete

```
# Removes given entry from $cmdlist and orders full
# regeneration of document section holding the zinit
# invocations (the main view). Basically, there will be
# one instance of module 2 less (the removed one), and
# remaining instances will get refreshed.
#
# $1 - widget id
# $2 - module's index
# $3 - module's instance index
```

Has 15 line(s). Calls functions:

```
-zcrasis_action_delete
`-- -zcrasis_clear_visual_state
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_delete_mode

```
# Enables ability to delete entries - adds [X] button
# to each plugin, snippet, external command, etc. (main
# view).
```

Has 9 line(s). Calls functions:

```
-zcrasis_action_delete_mode
`-- -zcrasis_refresh2_all_string
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_edit_mode

```
# Enables ability to edit entries - strings with plugin name,
# snippet url, etc. turn into text fields for manual editing.
```

Has 8 line(s). Calls functions:

```
-zcrasis_action_edit_mode
`-- -zcrasis_refresh2_all_string
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_move_down

```
# Moves given instance ($2) down, i.e. swaps current and
# next instance. Using "instance" here means: ZUI's
# module instance representing single zinit command
# (possibly preceded with "zinit ice ..." invocation)
# by the design of Crasis. Instance = invocation of a
# generator with "module_idx" "instance_idx" arguments.
#
# $1 - module index (will be 2)
# $2 - instance index
```

Has 24 line(s). Calls functions:

```
-zcrasis_action_move_down
`-- -zcrasis_util_swap
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_move_up

```
# Moves given instance ($2) up, i.e. swaps current and
# previous instance. Using "instance" here means: ZUI's
# module instance representing single zinit command
# (possibly preceded with "zinit ice ..." invocation)
# by the design of Crasis. Instance = invocation of a
# generator with "module_idx" "instance_idx" arguments.
#
# $1 - module index (will be 2)
# $2 - instance index
```

Has 24 line(s). Calls functions:

```
-zcrasis_action_move_up
`-- -zcrasis_util_swap
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_options_view

```
# Enters or leaves options alternate-view. It basically
# sets option module's instance to be created, once (when
# entering) - by changing the module factor.
```

Has 21 line(s). Doesn't call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_preview

```
# Enters or leaves preview alternate-view. It basically
# sets preview module's instance to be created, once.
# At the same time, the plugin-list module is set to 0
# instances. Number of instances is the "module factor".
```

Has 22 line(s). Doesn't call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_reload

```
# Ran at startup and after [Reload] button press. Performs
# full zshrc processing, recognizes other and zinit-related
# zshrc parts, forgets user changes because it regenerates
# the backend model-structure, the $cmdlist array of hashes.
```

Has 57 line(s). Calls functions:

```
-zcrasis_action_reload
|-- -zcrasis_clear_visual_state
|-- -zcrasis_dbg_msg
|-- -zcrasis_dbg_msg_arr
|-- -zcrasis-process-zinit-commands
|   '-- -zcrasis_dbg_msg
|-- -zcrasis-process-zsh-rc
|-- -zcrasis_refresh2_all_string
|-- -zcrasis_tokenization_failed
|-- -zcrasis-tokenize-zsh-rc
|   '-- -zcrasis-process-buffer
|       '-- -zcrasis_dbg_msg
'-- -zcrasis_verify_tokenization
```

Called by:

-zcrasis_action_save

```
# Called when [Save] pressed. Composes full .zshrc,  
# performs the save, outputs status message.
```

Has 5 line(s). Calls functions:

```
-zcrasis_action_save  
`-- -zcrasis_compose
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_action_save_options

```
# Stores current settings to $ZCRASIS_REPO_DIR/crasis.conf.  
# Outputs status message.
```

Has 6 line(s). Doesn't call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_clear_visual_state

```
# Clears generators' working variables to trigger refresh  
# from backend, model-structures (like $cmdlist).
```

Has 26 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_action_add_plugin  
-zcrasis_action_add_snippet  
-zcrasis_action_delete  
-zcrasis_action_reload
```

-zcrasis_compose


```
# Constructs text with zinit commands, optionally
# including original Zshrc blocks (in order to create
# full .zshrc). Can skip comments (via $1).
#
# $1 - zero or 1 - whether to include comments
# $2 - zero or 1 - whether to generate complete zshrc
#
# $reply - lines of created code
```

Has 115 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_action_save
-zcrasis_generator_B
```

-zcrasis_dbg_msg

```
# Append message to the debug view
```

Has 1 line(s). Doesn't call other functions.

Called by:

```
Script-Body
-zcrasis_action_add_plugin
-zcrasis_action_add_snippet
-zcrasis_action_reload
-zcrasis-process-buffer
-zcrasis_process_theme
-zcrasis-process-zinit-commands
```

-zcrasis_dbg_msg_arr

```
# Append multiple messages to the debug view
```

Has 1 line(s). Doesn't call other functions.

Called by:

```
Script-Body
-zcrasis_action_reload
-zcrasis_process_theme
```

-zcrasis_generator_0

```
# ZUI generator that creates top menu (its hypertext).
# The menu can differ depending on current view mode
# (normal, preview, debug).
```

Has 76 line(s). Doesn't call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_generator_A

```
# ZUI generator that creates document block for each plugin,
# snippet or other command. This is module #2, each document
# block is an instance of this module (separated by blank
# lines horizontally, by ZUI normal operation).
```

Has 196 line(s). Calls functions:

```
-zcrasis_generator_A
|-- -zcrasis_update_ice_cmd
'-- -zcrasis_update_main_cmd
```

Uses feature(s): *eval*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_generator_B

```
# ZUI generator that creates preview text. This is module 3.
# There is 0 or 1 instance of this module, depending on chosen
# view.
```

Has 35 line(s). Calls functions:

```
-zcrasis_generator_B
'-- -zcrasis_compose
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_generator_DBG

```
# ZUI generator that creates debug-report text. This is module 4.  
# There is 0 or 1 instance of this module, depending on chosen  
# view.
```

Has 15 line(s). Doesn't call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_generator_OPT

Has 48 line(s). Doesn't call other functions.

Uses feature(s): *eval*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_info

```
# Shows description (in status window) of the selected plugin
```

Has 3 line(s). Doesn't call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_process_theme

```
# Theme file contains a little complex data and  
# this functions converts it to be ready to use
```

Has 135 line(s). Calls functions:

```
-zcrasis_process_theme  
|-- -zcrasis_dbg_msg  
'-- -zcrasis_dbg_msg_arr
```

Uses feature(s): *source*

Called by:

```
Script-Body
-zcrasis_switch_layout
-zcrasis_switch_theme
```

-zcrasis-process-zinit-commands

```
# Processes block with zinit commands established earlier
# in -zcrasis-process-zsh-rc() and generates $cmdlist array
# which holds serialized hashes of every zinit invocation,
# mixed-in additional (external) commands, comments.
#
# Uses parameters filled by -zcrasis-process-buffer:
# - $ZCR_PB_WORDS - tokens
# - $ZCR_PB_SPACES - spaces in front of each token, +1 at the end
```

Has 141 line(s). Calls functions:

```
-zcrasis-process-zinit-commands
'-- -zcrasis_dbg_msg
```

Called by:

```
-zcrasis_action_reload
```

-zcrasis-process-zsh-rc

```
# Parses tokens of the loaded zshrc and detects:
# - functions
# - block preceding zinit commands
# - block with those commands
# - block following them
#
# Uses parameters filled by -zcrasis-process-buffer:
# - $ZCR_PB_WORDS - tokens
# - $ZCR_PB_SPACES - spaces in front of each token, +1 at the end
```

Has 160 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_action_reload
```

-zcrasis_refresh2_all_string

```
# Returns string that when passed to ZUI causes to regenerate
# all instances of module 2 and module 1 (the menu bar).
```

Has 8 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_action_add_plugin
-zcrasis_action_add_snippet
-zcrasis_action_compact_mode
-zcrasis_action_delete_mode
-zcrasis_action_edit_mode
-zcrasis_action_reload
```

-zcrasis_set_zui_settings

```
# If theme provides palette-string, it is
# applied to ZUI settings of this application
```

Has 36 line(s). Calls functions:

```
-zcrasis_set_zui_settings
'-- is-at-least
```

Uses feature(s): *autoload, is-at-least*

Called by:

```
Script-Body
-zcrasis_switch_layout
-zcrasis_switch_theme
```

-zcrasis_switch_layout

```
# Switches layout during operation of Crasis (not
# at startup).
#
# $1 - layout name (not path, no .cr-theme extension)
```

Has 4 line(s). Calls functions:

```
-zcrasis_switch_layout
|-- -zcrasis_process_theme
|   |-- -zcrasis_dbg_msg
|   `-- -zcrasis_dbg_msg_arr
`-- -zcrasis_set_zui_settings
    `-- is-at-least
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_switch_theme

```
# Switches theme during operation of Crasis (not
# at startup).
#
# $1 - theme name (not path, no .cr-theme extension)
```

Has 4 line(s). Calls functions:

```
-zcrasis_switch_theme
|-- -zcrasis_process_theme
|   |-- -zcrasis_dbg_msg
|   `-- -zcrasis_dbg_msg_arr
`-- -zcrasis_set_zui_settings
    `-- is-at-least
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

-zcrasis_tokenization_failed

```
# Outputs a message that zshrc didn't parse, and
# includes information what can be a possible cause.
```

Has 20 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_action_reload
```

-zcrasis-tokenize-zsh-rc

```
# Runs -zcrasis-process-buffer() on $zshrc (containing the loaded
# .zshrc file). The *-process-buffer() is a general function that
# exists in other projects, is an autoload function, and is kept
# in separate file "-zcrasis-process-buffer".
```

Has 1 line(s). Calls functions:

```
-zcrasis-tokenize-zsh-rc
`-- -zcrasis-process-buffer
   |-- -zcrasis_dbg_msg
```

Called by:

```
-zcrasis_action_reload
```

-zcrasis_update_ice_cmd

```
# Updates ICE entry in given ($3) command packet. There
# is single command packet per zinit invocation and it
# contains main command, optionally ICE command, and also
# optionally a preceding comment.
#
# $1 - key to update in the ice command
# $2 - data to store under the key
# $3 - index of command pack to alter
```

Has 24 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_generator_A
```

-zcrasis_update_main_cmd

```
# Updates main entry in given ($3) command packet. There
# is single command packet per zinit invocation and it
# contains main command, optionally ICE command, and also
# optionally a preceding comment.
#
# $1 - key to update in the main command
# $2 - data to store under the key
# $3 - index of command pack to alter
```

Has 17 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_generator_A
```

-zcrasis_util_swap

```
# Swaps two variables given by name. Uses (P) substitution
# flag, can swap e.g. hash entries. For example:
#   local -A hash_arr=( a b c d )
#   -zcrasis_util_swap 'hash_arr[a]' 'hash_arr[b]'
#
# $1 - name of first variable to swap
# $2 - name of second variable to swap
```

Has 14 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_action_move_down
-zcrasis_action_move_up
```

-zcrasis_verify_tokenization

```
# To large extent verifies if tokenization was correct.
# Also removes the test-tokens added to input zshrc.
```

Has 13 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_action_reload
```


is-at-least

```
#
# Test whether $ZSH_VERSION (or some value of your choice, if a second argument
# is provided) is greater than or equal to x.y.z-r (in argument one). In fact,
# it'll accept any dot/dash-separated string of numbers as its second argument
# and compare it to the dot/dash-separated first argument. Leading non-number
# parts of a segment (such as the "zefram" in 3.1.2-zefram4) are not considered
# when the comparison is done; only the numbers matter. Any left-out segments
# in the first argument that are present in the version string compared are
# considered as zeroes, eg 3 == 3.0 == 3.0.0 == 3.0.0.0 and so on.
```

Has 56 line(s). Doesn't call other functions.

Called by:

```
-zcrasis_set_zui_settings
```

-zcrasis-process-buffer

```
# Input:
# $1 - text to process
#
# Output:
# ZCR_PB_WORDS - split of "$1" into shell words; array
# ZCR_PB_WORDS_BEGINNINGS - indexes of first letters of corresponding words in
ZCR_PB_WORDS
# ZCR_PB_SPACES - white spaces before corresponding words in ZCR_PB_WORDS
# ZCR_PB_ALL - spaces and words, together
```

Has 140 line(s). Calls functions:

```
-zcrasis-process-buffer
'-- -zcrasis_dbg_msg
```

Uses feature(s): *setopt*

Called by:

```
-zcrasis-tokenize-zsh-rc
```