

zplugin.zsh(1)

NAME

zplugin.zsh - a shell script

SYNOPSIS

Documentation automatically generated with `zshelldoc`

FUNCTIONS

```
--zplg-reload-and-run
--zplg-shadow-alias
--zplg-shadow-autoload
--zplg-shadow-bindkey
--zplg-shadow-compdef
--zplg-shadow-zle
--zplg-shadow-zstyle
-zplg-add-report
-zplg-any-to-user-plugin
-zplg-clear-debug-report
-zplg-compdef-clear
-zplg-compdef-replay
-zplg-debug-start
-zplg-debug-stop
-zplg-debug-unload
-zplg-diff-env
-zplg-diff-functions
-zplg-diff-options
-zplg-diff-parameter
-zplg-find-other-matches
-zplg-ice
-zplg-load
-zplg-load-plugin
-zplg-load-snippet
-zplg-pack-ice
-zplg-prepare-home
-zplg-register-plugin
-zplg-run-task
-zplg-service
-zplg-shadow-off
-zplg-shadow-on
-zplg-submit-turbo
-zplg-unregister-plugin
-zplugin_scheduler_add_sh
pmodload
zplugin
AUTOLOAD add-zsh-hook
AUTOLOAD compinit
AUTOLOAD is-at-least
PRECMD-HOOK -zplg-scheduler
```

DETAILS

Script Body

Has 121 line(s). Calls functions:

```
Script-Body
|-- -zplg-prepare-home
|-- add-zsh-hook
`-- is-at-least
```

--zplg-reload-and-run

```
# Marks given function ($3) for autoloading, and executes it triggering the
# load. $1 is the fpath dedicated to the function, $2 are autoload options.
# This function replaces "autoload -X", because using that on older Zsh
# versions causes problems with traps.
#
# So basically one creates function stub that calls --zplg-reload-and-run()
# instead of "autoload -X".
#
# $1 - FPATH dedicated to function
# $2 - autoload options
# $3 - function name (one that needs autoloading)
#
# Author: Bart Schaefer
```

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

Uses feature(s): *autoload*, *unfunction*

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

--zplg-shadow-alias

```
# Function defined to hijack plugin's calls to 'alias' builtin.
#
# The hijacking is to gather report data (which is used in unload).
```

Has 39 line(s). Calls functions:

```
--zplg-shadow-alias
`-- -zplg-add-report
```

Uses feature(s): *alias*, *unfunction*, *zparseopts*

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

--zplg-shadow-autoload

```
# Function defined to hijack plugin's calls to 'autoload' builtin.  
#  
# The hijacking is not only to gather report data, but also to  
# run custom 'autoload' function, that doesn't need FPATH.
```

Has 38 line(s). Calls functions:

```
--zplg-shadow-autoload  
'-- -zplg-add-report
```

Uses feature(s): *autoload, eval, zparseopts*

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

--zplg-shadow-bindkey

```
# Function defined to hijack plugin's calls to 'bindkey' builtin.  
#  
# The hijacking is to gather report data (which is used in unload).
```

Has 78 line(s). Calls functions:

```
--zplg-shadow-bindkey  
'-- -zplg-add-report
```

Uses feature(s): *bindkey, unfunction, zparseopts*

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

--zplg-shadow-compdef

```
# Function defined to hijack plugin's calls to 'compdef' function.  
# The hijacking is not only for reporting, but also to save compdef  
# calls so that 'compinit' can be called after loading plugins.
```

Has 4 line(s). Calls functions:

```
--zplg-shadow-compdef  
'-- -zplg-add-report
```

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

--zplg-shadow-zle

```
# Function defined to hijack plugin's calls to 'zle' builtin.  
#  
# The hijacking is to gather report data (which is used in unload).
```

Has 40 line(s). Calls functions:

```
--zplg-shadow-zle  
'-- -zplg-add-report
```

Uses feature(s): *unfunction*, *zle*

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

--zplg-shadow-zstyle

```
# Function defined to hijack plugin's calls to 'zstyle' builtin.  
#  
# The hijacking is to gather report data (which is used in unload).
```

Has 26 line(s). Calls functions:

```
--zplg-shadow-zstyle  
'-- -zplg-add-report
```

Uses feature(s): *unfunction*, *zparseopts*, *zstyle*

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

-zplg-add-report

```
# Adds a report line for given plugin.  
#  
# $1 - uspl2, i.e. user/plugin  
# $2, ... - the text
```

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

Called by:

```
--zplg-shadow-alias
--zplg-shadow-autoload
--zplg-shadow-bindkey
--zplg-shadow-compdef
--zplg-shadow-zle
--zplg-shadow-zstyle
-zplg-load-plugin
```

-zplg-any-to-user-plugin

```
# Allows elastic plugin-spec across the code.
#
# $1 - plugin spec (4 formats: user---plugin, user/plugin, user, plugin)
# $2 - plugin (only when $1 - i.e. user - given)
#
# Returns user and plugin in $reply
```

Has 45 line(s). Doesn't call other functions.

Called by:

```
-zplg-load
-zplg-unregister-plugin
zplugin-autoload.zsh/-zplg-any-to-uspl2
zplugin-autoload.zsh/-zplg-cd
zplugin-autoload.zsh/-zplg-changes
zplugin-autoload.zsh/-zplg-compile-uncompile-all
zplugin-autoload.zsh/-zplg-compiled
zplugin-autoload.zsh/-zplg-create
zplugin-autoload.zsh/-zplg-delete
zplugin-autoload.zsh/-zplg-edit
zplugin-autoload.zsh/-zplg-find-completions-of-plugin
zplugin-autoload.zsh/-zplg-glance
zplugin-autoload.zsh/-zplg-show-report
zplugin-autoload.zsh/-zplg-stress
zplugin-autoload.zsh/-zplg-uncompile-plugin
zplugin-autoload.zsh/-zplg-uninstall-completions
zplugin-autoload.zsh/-zplg-unload
zplugin-autoload.zsh/-zplg-update-or-status-all
zplugin-autoload.zsh/-zplg-update-or-status
zplugin-install.zsh/-zplg-compile-plugin
zplugin-install.zsh/-zplg-get-latest-gh-r-version
zplugin-install.zsh/-zplg-install-completions
zplugin-side.zsh/-zplg-any-colorify-as-uspl2
zplugin-side.zsh/-zplg-exists-physically
zplugin-side.zsh/-zplg-first
```

-zplg-clear-debug-report

```
# Forgets dtrace report gathered up to this moment.
```

Has 1 line(s). Calls functions:

```
-zplg-clear-debug-report  
'-- zplugin-autoload.zsh/-zplg-clear-report-for
```

Called by:

```
zplugin  
zplugin-autoload.zsh/-zplg-unload
```

-zplg-compdef-clear

```
# Implements user-exposed functionality to clear gathered compdefs.
```

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

Called by:

```
zplugin
```

-zplg-compdef-replay

```
# Runs gathered compdef calls. This allows to run 'compinit'  
# after loading plugins.
```

Has 16 line(s). Doesn't call other functions.

Called by:

```
zplugin
```

-zplg-debug-start

```
# Starts Dtrace, i.e. session tracking for changes in Zsh state.
```


Has 12 line(s). Calls functions:

```
-zplg-debug-start  
|-- -zplg-diff-env  
|-- -zplg-diff-functions  
|-- -zplg-diff-options  
|-- -zplg-diff-parameter  
'-- -zplg-shadow-on
```

Called by:

```
zplugin
```

-zplg-debug-stop

```
# Stops Dtrace, i.e. session tracking for changes in Zsh state.
```

Has 6 line(s). Calls functions:

```
-zplg-debug-stop  
|-- -zplg-diff-env  
|-- -zplg-diff-functions  
|-- -zplg-diff-options  
|-- -zplg-diff-parameter  
'-- -zplg-shadow-off
```

Called by:

```
zplugin
```

-zplg-debug-unload

```
# Reverts changes detected by dtrace run.
```

Has 5 line(s). Calls functions:

```
-zplg-debug-unload  
'-- zplugin-autoload.zsh/-zplg-unload
```

Called by:

zplugin

-zplg-diff-env

```
# Implements detection of change in PATH and FPATH.  
#  
# $1 - user/plugin (i.e. uspl2 format)  
# $2 - command, can be "begin" or "end"
```

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

Called by:

```
-zplg-debug-start  
-zplg-debug-stop  
-zplg-load-plugin
```

-zplg-diff-functions

```
# Implements detection of newly created functions. Performs  
# data gathering, computation is done in *-compute().  
#  
# $1 - user/plugin (i.e. uspl2 format)  
# $2 - command, can be "begin" or "end"
```

Has 5 line(s). Doesn't call other functions.

Called by:

```
-zplg-debug-start  
-zplg-debug-stop  
-zplg-load-plugin
```

-zplg-diff-options

```
# Implements detection of change in option state. Performs  
# data gathering, computation is done in *-compute().  
#  
# $1 - user/plugin (i.e. uspl2 format)  
# $2 - command, can be "begin" or "end"
```

Has 5 line(s). Doesn't call other functions.

Called by:

```
-zplg-debug-start  
-zplg-debug-stop  
-zplg-load-plugin
```

-zplg-diff-parameter

```
# Implements detection of change in any parameter's existence and type.  
# Performs data gathering, computation is done in *-compute().  
#  
# $1 - user/plugin (i.e. uspl2 format)  
# $2 - command, can be "begin" or "end"
```

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

Called by:

```
-zplg-debug-start  
-zplg-debug-stop  
-zplg-load-plugin
```

-zplg-find-other-matches

```
# Plugin's main source file is in general 'name.plugin.zsh'. However,  
# there can be different conventions, if that file is not found, then  
# this functions examines other conventions in order of most expected  
# sanity.
```

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

Called by:

```
-zplg-load-plugin  
zplugin-side.zsh/-zplg-first
```

-zplg-ice

```
# Parses ICE specification ('zplg ice' subcommand), puts
# the result into ZPLG_ICE global hash. The ice-spec is
# valid for next command only (i.e. it "melts"), but it
# can then stick to plugin and activate e.g. at update.
```

Has 5 line(s). Doesn't call other functions.

Called by:

```
zplugin
```

-zplg-load

```
# Implements the exposed-to-user action of loading a plugin.
#
# $1 - plugin spec (4 formats: user---plugin, user/plugin, user, plugin)
# $2 - plugin name, if the third format is used
```

Has 21 line(s). Calls functions:

```
-zplg-load
|-- -zplg-any-to-user-plugin
|-- -zplg-load-plugin
|   |-- -zplg-add-report
|   |-- -zplg-diff-env
|   |-- -zplg-diff-functions
|   |-- -zplg-diff-options
|   |-- -zplg-diff-parameter
|   |-- -zplg-find-other-matches
|   |-- -zplg-shadow-off
|   `-- -zplg-shadow-on
|-- -zplg-pack-ice
|-- -zplg-register-plugin
|-- -zplg-unregister-plugin
|   `-- -zplg-any-to-user-plugin
`-- zplugin-install.zsh/-zplg-setup-plugin-dir
```

Uses feature(s): *eval*, *source*

Called by:

```
-zplg-run-task
-zplg-service
zplugin
```

-zplg-load-plugin

```
# Lower-level function for loading a plugin.
#
# $1 - user
# $2 - plugin
# $3 - mode (light or load)
```

Has 64 line(s). Calls functions:

```
-zplg-load-plugin
|-- -zplg-add-report
|-- -zplg-diff-env
|-- -zplg-diff-functions
|-- -zplg-diff-options
|-- -zplg-diff-parameter
|-- -zplg-find-other-matches
|-- -zplg-shadow-off
`-- -zplg-shadow-on
```

Uses feature(s): *eval*, *source*

Called by:

```
-zplg-load
```

-zplg-load-snippet

```
# Implements the exposed-to-user action of loading a snippet.
#
# $1 - url (can be local, absolute path)
# $2 - "--command" if that option given
# $3 - "--force" if that option given
# $4 - "-u" if invoked by Zplugin to only update snippet
```

Has 100 line(s). Calls functions:

```
-zplg-load-snippet
|-- -zplg-pack-ice
`-- zplugin-install.zsh/-zplg-download-snippet
```

Uses feature(s): *autoload*, *eval*, *source*, *unfunction*, *zparseopts*

Called by:

```
-zplg-run-task  
-zplg-service  
pmodload  
zplugin  
zplugin-autoload.zsh/-zplg-update-or-status-snippet
```

-zplg-pack-ice

```
# Remembers long-live ICE specs, assigns them to concrete plugin.  
# Ice spec is in general forgotten for second-next command (that's  
# why it's called "ice" - it melts), however some ice modifiers can  
# glue to plugin mentioned in the next command.
```

Has 10 line(s). Doesn't call other functions.

Called by:

```
-zplg-load-snippet  
-zplg-load  
zplugin-autoload.zsh/-zplg-compute-ice
```

-zplg-prepare-home

```
# Creates all directories needed by Zplugin, first checks  
# if they already exist.
```

Has 25 line(s). Doesn't call other functions.

Called by:

```
Script-Body
```

-zplg-register-plugin

Has 18 line(s). Doesn't call other functions.

Called by:

```
-zplg-load
```

-zplg-run-task

Has 32 line(s). Calls functions:

```
-zplg-run-task
|-- -zplg-load
|   |-- -zplg-any-to-user-plugin
|   |-- -zplg-load-plugin
|   |   |-- -zplg-add-report
|   |   |-- -zplg-diff-env
|   |   |-- -zplg-diff-functions
|   |   |-- -zplg-diff-options
|   |   |-- -zplg-diff-parameter
|   |   |-- -zplg-find-other-matches
|   |   |-- -zplg-shadow-off
|   |   `-- -zplg-shadow-on
|   |-- -zplg-pack-ice
|   |-- -zplg-register-plugin
|   |-- -zplg-unregister-plugin
|   |   `-- -zplg-any-to-user-plugin
|   `-- zplugin-install.zsh/-zplg-setup-plugin-dir
|-- -zplg-load-snippet
|   |-- -zplg-pack-ice
|   `-- zplugin-install.zsh/-zplg-download-snippet
`-- zplugin-autoload.zsh/-zplg-unload
```

Uses feature(s): *eval*, *source*, *zle*, *zpty*

Called by:

```
-zplg-scheduler
```

-zplg-scheduler

```
# Searches for timeout tasks, executes them
```

Has 33 line(s). **Is a precmd hook.** Calls functions:

```

-zplg-scheduler
|-- -zplg-run-task
|   |-- -zplg-load
|   |   |-- -zplg-any-to-user-plugin
|   |   |-- -zplg-load-plugin
|   |   |   |-- -zplg-add-report
|   |   |   |-- -zplg-diff-env
|   |   |   |-- -zplg-diff-functions
|   |   |   |-- -zplg-diff-options
|   |   |   |-- -zplg-diff-parameter
|   |   |   |-- -zplg-find-other-matches
|   |   |   |-- -zplg-shadow-off
|   |   |   `-- -zplg-shadow-on
|   |   |-- -zplg-pack-ice
|   |   |-- -zplg-register-plugin
|   |   |-- -zplg-unregister-plugin
|   |   |   `-- -zplg-any-to-user-plugin
|   |   `-- zplugin-install.zsh/-zplg-setup-plugin-dir
|   |-- -zplg-load-snippet
|   |   |-- -zplg-pack-ice
|   |   `-- zplugin-install.zsh/-zplg-download-snippet
|   `-- zplugin-autoload.zsh/-zplg-unload
`-- add-zsh-hook

```

Uses feature(s): *sched*

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

-zplg-service

```

# Handles given service, i.e. obtains lock, runs it, or waits if no lock
#
# $1 - type "p" or "s" (plugin or snippet)
# $2 - mode - for plugin (light or load)
# $3 - id - URL or plugin ID

```

Has 30 line(s). Calls functions:


```

-zplg-service
|-- -zplg-load
|   |-- -zplg-any-to-user-plugin
|   |-- -zplg-load-plugin
|   |   |-- -zplg-add-report
|   |   |-- -zplg-diff-env
|   |   |-- -zplg-diff-functions
|   |   |-- -zplg-diff-options
|   |   |-- -zplg-diff-parameter
|   |   |-- -zplg-find-other-matches
|   |   |-- -zplg-shadow-off
|   |   `-- -zplg-shadow-on
|   |-- -zplg-pack-ice
|   |-- -zplg-register-plugin
|   |-- -zplg-unregister-plugin
|   |   `-- -zplg-any-to-user-plugin
|   `-- zplugin-install.zsh/-zplg-setup-plugin-dir
`-- -zplg-load-snippet
    |-- -zplg-pack-ice
    `-- zplugin-install.zsh/-zplg-download-snippet

```

Uses feature(s): *kill, read*

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

-zplg-shadow-off

```

# Turn off shadowing completely for a given mode ("load", "light"
# or "compdef").

```

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

Uses feature(s): *unfunction*

Called by:

```

-zplg-debug-stop
-zplg-load-plugin

```

-zplg-shadow-on

```

# Turn on shadowing of builtins and functions according to passed
# mode ("load", "light" or "compdef"). The shadowing is to gather
# report data, and to hijack 'autoload' and 'compdef' calls.

```

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

Called by:

```
-zplg-debug-start  
-zplg-load-plugin
```

-zplg-submit-turbo

Has 12 line(s). Doesn't call other functions.

Called by:

```
zplugin
```

-zplg-unregister-plugin

Has 4 line(s). Calls functions:

```
-zplg-unregister-plugin  
'-- -zplg-any-to-user-plugin
```

Called by:

```
-zplg-load  
zplugin-autoload.zsh/-zplg-unload
```

-zplugin_scheduler_add_sh

```
# Copies task into ZPLG_RUN array, called when a task timeouts
```

Has 2 line(s). Doesn't call other functions.

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

pmodload

Has 4 line(s). Calls functions:

```

pmodload
`-- -zplg-load-snippet
   |-- -zplg-pack-ice
   `-- zplugin-install.zsh/-zplg-download-snippet

```

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

zplugin

```

# Main function directly exposed to user, obtains subcommand
# and its arguments, has completion.

```

Has 244 line(s). Calls functions:

```

zplugin
|-- -zplg-clear-debug-report
|  `-- zplugin-autoload.zsh/-zplg-clear-report-for
|-- -zplg-compdef-clear
|-- -zplg-compdef-replay
|-- -zplg-debug-start
|  |-- -zplg-diff-env
|  |-- -zplg-diff-functions
|  |-- -zplg-diff-options
|  |-- -zplg-diff-parameter
|  `-- -zplg-shadow-on
|-- -zplg-debug-stop
|  |-- -zplg-diff-env
|  |-- -zplg-diff-functions
|  |-- -zplg-diff-options
|  |-- -zplg-diff-parameter
|  `-- -zplg-shadow-off
|-- -zplg-debug-unload
|  `-- zplugin-autoload.zsh/-zplg-unload
|-- -zplg-ice
|-- -zplg-load
|  |-- -zplg-any-to-user-plugin
|  |-- -zplg-load-plugin
|  |  |-- -zplg-add-report
|  |  |-- -zplg-diff-env
|  |  |-- -zplg-diff-functions
|  |  |-- -zplg-diff-options
|  |  |-- -zplg-diff-parameter
|  |  |-- -zplg-find-other-matches
|  |  |-- -zplg-shadow-off
|  |  `-- -zplg-shadow-on
|  |-- -zplg-pack-ice
|  |-- -zplg-register-plugin

```

```
| |-- -zplg-unregister-plugin
| | `-- -zplg-any-to-user-plugin
| `-- zplugin-install.zsh/-zplg-setup-plugin-dir
|-- -zplg-load-snippet
| |-- -zplg-pack-ice
| `-- zplugin-install.zsh/-zplg-download-snippet
|-- -zplg-submit-turbo
|-- compinit
|-- zplugin-autoload.zsh/-zplg-cd
|-- zplugin-autoload.zsh/-zplg-cdisable
|-- zplugin-autoload.zsh/-zplg-cenable
|-- zplugin-autoload.zsh/-zplg-changes
|-- zplugin-autoload.zsh/-zplg-clear-completions
|-- zplugin-autoload.zsh/-zplg-compile-uncompile-all
|-- zplugin-autoload.zsh/-zplg-compiled
|-- zplugin-autoload.zsh/-zplg-compinit
|-- zplugin-autoload.zsh/-zplg-create
|-- zplugin-autoload.zsh/-zplg-delete
|-- zplugin-autoload.zsh/-zplg-edit
|-- zplugin-autoload.zsh/-zplg-glance
|-- zplugin-autoload.zsh/-zplg-help
|-- zplugin-autoload.zsh/-zplg-list-compdef-replay
|-- zplugin-autoload.zsh/-zplg-ls
|-- zplugin-autoload.zsh/-zplg-recently
|-- zplugin-autoload.zsh/-zplg-search-completions
|-- zplugin-autoload.zsh/-zplg-self-update
|-- zplugin-autoload.zsh/-zplg-show-all-reports
|-- zplugin-autoload.zsh/-zplg-show-completions
|-- zplugin-autoload.zsh/-zplg-show-debug-report
|-- zplugin-autoload.zsh/-zplg-show-registered-plugins
|-- zplugin-autoload.zsh/-zplg-show-report
|-- zplugin-autoload.zsh/-zplg-show-times
|-- zplugin-autoload.zsh/-zplg-show-zstatus
|-- zplugin-autoload.zsh/-zplg-stress
|-- zplugin-autoload.zsh/-zplg-uncompile-plugin
|-- zplugin-autoload.zsh/-zplg-uninstall-completions
|-- zplugin-autoload.zsh/-zplg-unload
|-- zplugin-autoload.zsh/-zplg-update-or-status
|-- zplugin-autoload.zsh/-zplg-update-or-status-all
|-- zplugin-install.zsh/-zplg-compile-plugin
|-- zplugin-install.zsh/-zplg-forget-completion
`-- zplugin-install.zsh/-zplg-install-completions
```

Uses feature(s): *autoload*, *eval*, *source*

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

add-zsh-hook

Has 93 line(s). Doesn't call other functions.

Uses feature(s): *autoload*

Called by:

-zplg-scheduler
Script-Body

compinit

Has 542 line(s). Doesn't call other functions.

Uses feature(s): *autoload, bindkey, eval, read, unfunction, zle, zstyle*

Called by:

zplugin

is-at-least

Has 38 line(s). Doesn't call other functions.

Called by:

Script-Body