zplugin.zsh(1)

# NAME

zplugin.zsh - a shell script

# SYNOPSIS

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# 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-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 117 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 41 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 38 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 14 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-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 repport 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 18 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 6 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 20 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
zplugin
```

# -zplg-load-plugin

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

Has 65 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 88 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
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 21 line(s). Doesn't call other functions.

Called by:

```
Script-Body
zplugin
```

# -zplg-register-plugin

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

Called by:

```
-zplg-load
```

# -zplg-run-task

Has 26 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*

Called by:

```
-zplg-scheduler
```

# -zplg-scheduler

> # Searches for timeout tasks, executes them

Has 27 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-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 227 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-prepare-home
|-- -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-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 91 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
```