zi.zsh(1)

NAME

zi.zsh - a shell script

SYNOPSIS

Documentation automatically generated with `zsdoc'

FUNCTIONS

```
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Ê+zi-message
Ê+zi-prehel p-usage-message
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Ê. zi -add-fpath
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Ê. zi -any-to-pi d
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Ê. zi -compdef-clear
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Ê. zi -l oad-obj ect
Ê. zi -l oad-pl ugi n
Ê. zi -l oad-sni ppet
Ê.zi-main-message-formatter
Ê. zi -pack-i ce
Ê. zi -parse-opts
Ê. zi -prepare-home
Ê. zi -regi ster-pl ugi n
```

```
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Ê. zi -run-task
Ê.zi-set-m-func
Ê. zi -setup-params
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Ê:zi-tmp-subst-alias
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Ê:zi-tmp-subst-zle
Ê: zi-tmp-subst-zstyle
Ê@autol oad
Ê@zi-register-annex
Ê@zi -regi ster-hook
Ê@zi-substitute
Ê@zsh-pl ugi n-run-on-unl oad
Ê@zsh-pl ugi n-run-on-update
ÉpmodI oad
Êzi
Êzi-turbo
Êzi cdcl ear
Êzi cdrepl ay
Êzi compdef
Êzi compi ni t
Êzpcdcl ear
Êzpcdrepl ay
Êzpcompdef
Êzpcompinit
```

DETAILS

AUTOLOAD add-zsh-hook AUTOLOAD compinit AUTOLOAD is-at-least

PRECMD-HOOK @zi-scheduler

Script Body

Has 202 line(s). Calls functions:

```
Script-Body
|-- +zi-message
|-- @zi-register-hook
|-- add-zsh-hook
|-- autoload.zsh/.zi-module
`-- is-at-least
```

Uses feature(s): add-zsh-hook, alias, autoload, export, is-at-least, setopt, source, zmodload, zstyle

 ${\it Exports~(environment): PMSPEC~//~ZPFX~//~ZSH_CACHE_DIR}$

+zi-deploy-message

```
FUNCTION: +zi-deploy-message. [[[
Deploys a sub-prompt message to be displayed OR a `zle
.reset-prompt' call to be invoked
```

Has 13 line(s). Doesn@t call other functions.

Uses feature(s): read, zle

Called by:

```
. zi -l oad-sni ppet
. zi -l oad
autol oad. zsh/. zi -recal l
```

+zi-message

```
FUNCTION: +zi-message. [[[
```

Has 14 line(s). Doesnễt call other functions.

```
+zi -prehel p-usage-message
.zi-compdef-clear
.zi-compdef-replay
. zi -l oad-sni ppet
. zi -regi ster-pl ugi n
. zi -run
.zi-set-m-func
: zi -tmp-subst-autoload
Script-Body
zi
additional.zsh/.zi-debug-start
additional.zsh/.zi-debug-unload
additional.zsh/:zi-tmp-subst-source
autoload.zsh/.zi-build-module
autoload.zsh/.zi-cd
autoload.zsh/.zi-self-update
autoload.zsh/.zi-show-zstatus
autoload.zsh/.zi-uninstall-completions
autoload.zsh/.zi-update-all-parallel
autoload.zsh/.zi-update-or-status-all
autoload.zsh/.zi-update-or-status
autoload.zsh/.zi-wait-for-update-jobs
install.zsh/.zi-compile-plugin
install.zsh/.zi-compinit
install.zsh/.zi-download-file-stdout
install.zsh/.zi-download-snippet
install.zsh/.zi-extract
install.zsh/.zi-get-cygwin-package
install.zsh/.zi-get-latest-gh-r-url-part
install.zsh/.zi-get-package
install.zsh/.zi-install-completions
install.zsh/.zi-setup-plugin-dir
install.zsh/.zi-update-snippet
install.zsh/ziextract
install.zsh/°zi-ps-on-update-hook
install.zsh/°zi-reset-hook
si de. zsh/. zi -countdown
side.zsh/.zi-exists-physically-message
```

+zi-prehelp-usage-message

```
FUNCTION: +zi-prehelp-usage-message. [[[
```

Has 34 line(s). Calls functions:

```
+zi-prehelp-usage-message
`-- +zi-message
```

Called by:

```
zi
autol oad. zsh/. zi -del ete
```

-zi_scheduler_add_sh

```
FUNCTION: -zi_scheduler_add_sh. [[[
Copies task into ZI_RUN array, called when a task timeouts.

A small function ran from pattern in /-substitution as a math function.
```

Has 7 line(s). Doesnt call other functions.

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

zi-add-fpath

----~

```
FUNCTION: .zi-add-fpath. [[[
```

Has 10 line(s). Calls functions:

```
.zi-add-fpath
```

Called by:

zi

zi-add-report

~~~~

```
FUNCTION: .zi-add-report. [[[
     Adds a report line for given plugin.
     $1 - uspl2, i.e. user/plugin
     $2, ... - the text
Has 3 line(s). Doesnt call other functions.
Called by:
  . zi -l oad-pl ugi n
  . zi -l oad-sni ppet
  :zi-tmp-subst-alias
  : zi -tmp-subst-autoload
  : zi -tmp-subst-bi ndkey
  :zi-tmp-subst-compdef
  :zi-tmp-subst-zle
  :zi-tmp-subst-zstyle
zi-any-to-pid
     FUNCTION: .zi-any-to-pid. [[[
Has 21 line(s). Calls functions:
  . zi -any-to-pi d
Uses feature(s): setopt
Called by:
  side.zsh/.zi-any-colorify-as-uspl2
  side.zsh/.zi-exists-physically-message
  side.zsh/.zi-first
```

zi-any-to-user-plugin

~~~~~~~~

```
FUNCTION: .zi-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 25 line(s). Doesn@t call other functions.
Uses feature(s): setopt
Called by:
  .zi-add-fpath
  . zi -get-obj ect-path
  . zi -l oad
  . zi -run
```

```
: zi -tmp-subst-autoload
autoload. zsh/. zi -any-to-uspl 2
autoload.zsh/.zi-changes
autoload.zsh/.zi-compile-uncompile-all
autoload.zsh/.zi-compiled
autoload.zsh/.zi-create
autoload.zsh/.zi-delete
autoload.zsh/.zi-find-completions-of-plugin
autoload.zsh/.zi-glance
autoload.zsh/.zi-show-report
autoload.zsh/.zi-stress
autoload.zsh/.zi-uncompile-plugin
autoload.zsh/.zi-unload
autoload. zsh/. zi -unregi ster-pl ugi n
autoload.zsh/.zi-update-all-parallel
autoload.zsh/.zi-update-or-status-all
autoload.zsh/.zi-update-or-status
install.zsh/.zi-install-completions
si de. zsh/. zi -any-col ori fy-as-uspl 2
side.zsh/.zi-compute-ice
side.zsh/.zi-exists-physically-message
si de. zsh/. zi -exi sts-physi cal l y
side.zsh/.zi-first
```

Environment variables used: ZPFX

zi-compdef-clear

~~~~

```
FUNCTION: .zi-compdef-clear. [[[
Implements user-exposed functionality to clear gathered compdefs.
```

### Has 3 line(s). Calls functions:

```
. zi -compdef-cl ear
`-- +zi -message
```

### Called by:

```
zi
zi cdcl ear
zpcdcl ear
```

### zi-compdef-replay

~~~~~

```
FUNCTION: .zi-compdef-replay. [[[ Runs gathered compdef calls. This allows to run `compinit' after loading plugins.
```

Has 16 line(s). Calls functions:

```
. zi -compdef-replay
`-- +zi -message
```

Uses feature(s): *compdef*

Called by:

```
zi
zi cdrepl ay
zpcdrepl ay
```

zi-diff

__~~

```
FUNCTION: .zi-diff. [[[
Performs diff actions of all types
```

Has 4 line(s). Calls functions:

```
. zi -di ff
```

Called by:

```
. zi -l oad-pl ugi n
addi ti onal . zsh/. zi -debug-start
addi ti onal . zsh/. zi -debug-stop
```

zi-diff-env

~~~

```
FUNCTION: .zi-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 15 line(s). Doesnễt call other functions.

### Called by:

```
. zi -di ff
. zi -l oad-pl ugi n
```

#### zi-diff-functions

~~~~

```
\label{lem:functions} FUNCTION: .zi-diff-functions. \cite{Constraint} \cite{Constraint} 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 3 line(s). Doesn@t call other functions.

Called by:

```
. zi -di ff
```

zi-diff-options

~~~~~~

```
FUNCTION: .zi-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 2 line(s). Doesnt call other functions.

#### Called by:

```
. zi -di ff
```

#### zi-diff-parameter

~~~~~

```
FUNCTION: .zi-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 7 line(s). Doesnt call other functions.

Called by:

```
. zi -di ff
```

zi-find-other-matches

~~~~~~~~~~

```
FUNCTION: .zi-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 the most sane order.
```

Has 17 line(s). Doesnt call other functions.

```
. zi -l oad-pl ugi n
. zi -l oad-sni ppet
si de. zsh/. zi -fi rst
```

zi-formatter-bar

~~~~~

```
FUNCTION: .zi-formatter-bar. [[[
```

Has 1 line(s). Calls functions:

```
.zi-formatter-bar
```

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

zi-formatter-bar-util

~~~~~~~~~~

```
FUNCTION: .zi-formatter-bar-util. [[[
```

Has 7 line(s). Doesnt call other functions.

Called by:

```
. zi -formatter-bar
. zi -formatter-th-bar
```

zi-formatter-pid

~~~~~

```
FUNCTION: .zi-formatter-pid. [[[
```

Has 10 line(s). Calls functions:

```
.zi-formatter-pid
`-- side.zsh/.zi-any-colorify-as-uspl2
```

Uses feature(s): source

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

```
zi-formatter-th-bar
```

~~~~

```
FUNCTION: .zi-formatter-th-bar. [[[
```

Has 1 line(s). Calls functions:

```
.zi-formatter-th-bar
```

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

zi-formatter-url

~~~~~

```
FUNCTION: .zi-formatter-url. [[[
```

Has 19 line(s). Doesnễt call other functions.

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

zi-get-mtime-into

~~~~~

```
FUNCTION: .zi-get-mtime-into. [[[
```

Has 7 line(s). Doesnt call other functions.

Called by:

```
Script-Body
autoload.zsh/.zi-self-update
autoload.zsh/.zi-update-or-status-all
```

zi-get-object-path

~~~~~~~

```
FUNCTION: .zi-get-object-path. [[[
```

Has 23 line(s). Calls functions:

```
. zi -get-obj ect-path
```

Called by:

```
. zi -l oad-i ces
. zi -l oad-sni ppet
. zi -run
zi
autol oad. zsh/. zi -get-path
i nstal I . zsh/. zi -setup-pl ugi n-di r
i nstal I . zsh/. zi -update-sni ppet
si de. zsh/. zi -fi rst
si de. zsh/. zi -two-paths
```

zi-ice

~~~

```
FUNCTION: .zi-ice. [[[
Parses ICE specification, puts the result into 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 12 line(s). Doesnt call other functions.

Uses feature(s): *setopt* 

Called by:

zi

Environment variables used: ZPFX

zi-load

<sub>~~</sub>~~

```
FUNCTION: .zi-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 76 line(s). Calls functions:

```
. zi -l oad
  |-- +zi -depl oy-message
  |-- install.zsh/.zi-get-package
  `-- install.zsh/.zi-setup-plugin-dir
Uses feature(s): eval, setopt, source, zle
Called by:
  . zi -l oad-obj ect
  . zi -run-task
  additional.zsh/.zi-service
zi-load-ices
     FUNCTION: .zi-load-ices. [[[
Has 22 line(s). Calls functions:
  . zi -l oad-i ces
Called by:
  Ζİ
Environment variables used: ZPFX
zi-load-object
     FUNCTION: .zi-load-object. [[[
Has 10 line(s). Calls functions:
  . zi -l oad-obj ect
Called by:
  Ζİ
```

~~~~

```
FUNCTION: .zi-load-plugin. [[[
Lower-level function for loading a plugin.

$1 - user
$2 - plugin
$3 - mode (light or load)
```

Has 107 line(s). Calls functions:

```
.zi-load-plugin

`-- :zi-tmp-subst-autoload

Ê |-- +zi-message

Ê `-- is-at-least
```

Uses feature(s): eval, setopt, source, unfunction, zle

Called by:

```
. zi -l oad
```

zi-load-snippet

~~~~~~

```
FUNCTION: .zi-load-snippet. [[[
Implements the exposed-to-user action of loading a snippet.
```

\$1 - url (can be local, absolute path).

### Has 173 line(s). Calls functions:

```
. zi -l oad-sni ppet
|-- +zi -depl oy-message
|-- +zi -message
`-- i nstall. zsh/. zi -downl oad-sni ppet
```

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

```
. zi -l oad-obj ect
. zi -l oad
. zi -run-task
pmodl oad
addi ti onal . zsh/. zi -servi ce
```

zi-main-message-formatter

```
~~~~~~~~~~~
```

```
FUNCTION: +zi-message-formatter [[[
```

Has 18 line(s). Doesnt call other functions.

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

#### zi-pack-ice

~~~

```
FUNCTION: .zi-pack-ice. [[[Remembers all ice-mods, 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 they glue to the object (plugin or snippet) mentioned in the next command D for later use with e.g. `zi update ...'.
```

Has 3 line(s). Doesnt call other functions.

### Called by:

```
. zi -l oad-sni ppet
. zi -l oad
@zsh-pl ugi n-run-on-unl oad
@zsh-pl ugi n-run-on-update
i nstall.zsh/.zi -update-sni ppet
si de.zsh/.zi -compute-i ce
```

zi-parse-opts

~~~

```
]]]
FUNCTION: +zi-parse-opts. [[[
```

Has 2 line(s). Doesnt call other functions.

```
Called by:
```

```
zi
autol oad. zsh/. zi -del ete
```

### zi-prepare-home

~~~~~

```
FUNCTION: .zi-prepare-home. [[[Creates all directories needed by ZI, first checks if they already exist.
```

#### Has 38 line(s). Calls functions:

```
.zi-prepare-home
|-- autoload.zsh/.zi-clear-completions
`-- install.zsh/.zi-compinit
```

### Uses feature(s): source

### Called by:

```
Script-Body
```

### Environment variables used: ZPFX

#### zi-register-plugin

```
FUNCTION: .zi-register-plugin. [[[Adds the plugin to ZI_REGISTERED_PLUGINS array and to the zsh_loaded_plugins array (managed according to the plugin standard: https://github.com/z-shell/zi/wiki/Zsh-Plugin-Standard).
```

#### Has 20 line(s). Calls functions:

```
. zi -regi ster-pl ugi n
`-- +zi -message
```

```
. zi -l oad
```

zi-run

~~~

```
FUNCTION: .zi-run. [[[
Run code inside plugin's folder
It uses the `correct' parameter from upper's scope zi().
```

#### Has 24 line(s). Calls functions:

```
.zi-run
`-- +zi-message
```

Uses feature(s): eval, setopt

Called by:

zi

#### zi-run-task

~~~

FUNCTION: .zi-run-task. [[[ A backend, worker function of .zi-scheduler. It obtains the tasks index and a few of its properties (like the type: plugin, snippet, service plugin, service snippet) and executes it first checking for additional conditions (like non-numeric wait' ice).

```
$1 - the pass number, either 1st or 2nd pass
```

- \$2 the time assigned to the task
- \$3 type: plugin, snippet, service plugin, service snippet
- \$4 task's index in the ZI[WAIT\_ICE\_...] fields
- \$5 mode: load or light
- \$6 the plugin-spec or snippet URL or alias name (from id-as'')

### Has 45 line(s). Calls functions:

```
. zi -run-task
`-- autol oad. zsh/. zi -unl oad
```

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

```
@zi-scheduler
```

#### zi-set-m-func

~~~~

```
FUNCTION:.zi-set-m-func() [[[
Sets and withdraws the temporary, atclone/atpull time function `m`.
```

### Has 17 line(s). Calls functions:

```
.zi-set-m-func
`-- +zi-message
```

### Uses feature(s): *setopt*

### Called by:

```
. zi -l oad-sni ppet
. zi -l oad
autol oad. zsh/. zi -update-or-status
```

### zi-setup-params

~~~~~

```
FUNCTION: .zi-setup-params. [[[
```

### Has 3 line(s). Doesnt call other functions.

### Called by:

```
. zi -l oad-sni ppet
. zi -l oad
```

#### zi-submit-turbo

~~~~~~

```
FUNCTION: .zi-submit-turbo. [[[
If `zi load`, `zi light` or `zi snippet` will be
preceded with `wait', `load', `unload' or `on-update-of`/`subscribe'
ice-mods then the plugin or snipped is to be loaded in turbo-mode,
and this function adds it to internal data structures, so that
@zi-scheduler can run (load, unload) this as a task.
```

Has 16 line(s). Doesn@t call other functions.

Called by:

```
zi
```

zi-tmp-subst-off

~~~~~

```
FUNCTION: .zi-tmp-subst-off. [[[
Turn off temporary substituting of functions completely for a given mode ("load",
"light",
"light-b" (i.e. the `trackbinds' mode) or "compdef").
```

Has 17 line(s). Doesnt call other functions.

Uses feature(s): setopt, unfunction

Called by:

```
. zi -l oad-pl ugi n
addi ti onal . zsh/. zi -debug-stop
```

zi-tmp-subst-on

~~~~~~~~

```
FUNCTION: .zi-tmp-subst-on. [[[
Turn on temporary substituting of functions of builtins and functions according to passed
mode ("load", "light", "light-b" or "compdef"). The temporary substituting of functions is
to gather report data, and to hijack `autoload', `bindkey' and `compdef' calls.
```

Has 29 line(s). Doesnt call other functions.

Uses feature(s): source

#### Called by:

```
. zi -l oad-pl ugi n
addi ti onal . zsh/. zi -debug-start
```

#### zi-util-shands-path

~~~~~~~

```
FUNCTION: .zi-util-shands-path. [[[Replaces parts of path with %HOME, etc.
```

Has 8 line(s). Doesnt call other functions.

Uses feature(s): *setopt* 

Called by:

```
. zi -any-to-pi d
```

Environment variables used: ZPFX

## :zi-reload-and-run

FUNCTION: :zi-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 :zi-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 9 line(s). Doesnt call other functions.

Uses feature(s): autoload, unfunction

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

## :zi-tmp-subst-alias

```
FUNCTION: :zi-tmp-subst-alias. [[[
Function defined to hijack plugin's calls to the `alias' builtin.
```

The hijacking is to gather report data (which is used in unload).

Has 30 line(s). Calls functions:

```
:zi-tmp-subst-alias
```

Uses feature(s): alias, setopt, zparseopts

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

# :zi-tmp-subst-autoload

```
FUNCTION: :zi-tmp-subst-autoload. [[[
Function defined to hijack plugin's calls to the `autoload' builtin.
```

The hijacking is not only to gather report data, but also to. run custom `autoload' function, that doesn't need FPATH.

Has 106 line(s). Calls functions:

```
: zi-tmp-subst-autoload
|-- +zi-message
`-- is-at-least
```

Uses feature(s): autoload, eval, is-at-least, setopt, zparseopts

```
. zi -l oad-pl ugi n
@autol oad
```

## :zi-tmp-subst-bindkey

```
FUNCTION: :zi-tmp-subst-bindkey. [[[Function defined to hijack plugin's calls to the `bindkey' builtin.
```

The hijacking is to gather report data (which is used in unload).

Has 107 line(s). Calls functions:

```
:zi-tmp-subst-bindkey
`-- is-at-least
```

Uses feature(s): bindkey, is-at-least, setopt, zparseopts

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

# :zi-tmp-subst-compdef

```
FUNCTION: :zi-tmp-subst-compdef. [[[
Function defined to hijack plugin's calls to the `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 5 line(s). Calls functions:

```
:zi-tmp-subst-compdef
```

Uses feature(s): setopt

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

# :zi-tmp-subst-zle

```
FUNCTION: :zi-tmp-subst-zle. [[[.
Function defined to hijack plugin's calls to the `zle' builtin.
```

The hijacking is to gather report data (which is used in unload).

Has 33 line(s). Calls functions:

```
:zi-tmp-subst-zle
```

Uses feature(s): setopt, zle

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

## :zi-tmp-subst-zstyle

```
FUNCTION: :zi-tmp-subst-zstyle. [[[Function defined to hijack plugin's calls to the `zstyle' builtin.
```

The hijacking is to gather report data (which is used in unload).

Has 19 line(s). Calls functions:

```
:zi-tmp-subst-zstyle
```

Uses feature(s): setopt, zparseopts, zstyle

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

## @autoload

```
]]]
FUNCTION: @autoload. [[[
```

Has 3 line(s). Calls functions:

```
@autoload
`-- :zi-tmp-subst-autoload
Ê |-- +zi-message
Ê `-- is-at-least
```

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

# @zi-register-annex

```
FUNCTION: @zi-register-annex. [[[
Registers the z-annex inside ZI D i.e. an ZI extension
```

Has 8 line(s). Doesnt call other functions.

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

## @zi-register-hook

```
FUNCTION: @zi-register-hook. [[[
Registers the z-annex inside ZI D i.e. an ZI extension
```

Has 4 line(s). Doesnt call other functions.

Called by:

Script-Body

## @zi-scheduler

FUNCTION: @zi-scheduler. [[[ Searches for timeout tasks, executes them. There's an array of tasks waiting for execution, this scheduler manages them, detects which ones should be run at current moment, decides to remove (or not) them from the array after execution.

\$1 - if "following", then it is non-first (second and more) invocation of the scheduler; this results in chain of `sched' invocations that results in repetitive @zi-scheduler activity.

if "burst", then all tasks are marked timeout and executed one by one; this is handy if e.g. a docker image starts up and needs to install all turbo-mode plugins without any hesitation (delay), i.e. "burst" allows to run package installations from script, not from prompt.

Has 74 line(s). Is a precmd hook. Calls functions:

```
@zi-scheduler
`-- add-zsh-hook
```

Uses feature(s): add-zsh-hook, sched, setopt, zle

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

### @zi-substitute

```
FUNCTION: @zi-substitute. [[[
```

Has 36 line(s). Doesnt call other functions.

Uses feature(s): setopt

Called by:

```
autoload.zsh/.zi-at-eval
install.zsh/.zi-at-eval
install.zsh/.zi-get-package
install.zsh/°zi-atclone-hook
install.zsh/°zi-cp-hook
install.zsh/°zi-extract-hook
install.zsh/°zi-make-e-hook
install.zsh/°zi-make-hook
install.zsh/°zi-make-hook
install.zsh/°zi-make-hook
```

Environment variables used: ZPFX

# @zsh-plugin-run-on-unload

```
FUNCTION: @zsh-plugin-run-on-update. [[[
The Plugin Standard required mechanism, see:
https://github.com/z-shell/zi/wiki/Zsh-Plugin-Standard
```

Has 2 line(s). Calls functions:

```
@zsh-pl ugi n-run-on-unl oad
```

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

# @zsh-plugin-run-on-update

```
FUNCTION: @zsh-plugin-run-on-update. [[[
The Plugin Standard required mechanism
```

Has 2 line(s). Calls functions:

@zsh-pl ugi n-run-on-update

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

# pmodload

```
FUNCTION: pmodload. [[[
Compatibility with Prezto. Calls can be recursive.
```

Has 15 line(s). Calls functions:

```
pmodl oad
```

Uses feature(s): zstyle

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

## zi

```
\label{thm:completion:completio
```

Has 547 line(s). Calls functions:

```
zi
|-- +zi -message
|-- +zi -prehel p-usage-message
|ÊÊ `-- +zi-message
|-- additional.zsh/.zi-clear-debug-report
|-- additional.zsh/.zi-debug-start
|-- additional.zsh/.zi-debug-stop
|-- additional.zsh/.zi-debug-unload
|-- autoload.zsh/.zi-analytics-menu
|-- autoload.zsh/.zi-cdisable
-- autoload.zsh/.zi-cenable
|-- autoload.zsh/.zi-clear-completions
|-- autoload.zsh/.zi-compile-uncompile-all
|-- autoload.zsh/.zi-compiled
|-- autoload.zsh/.zi-control-menu
|-- autoload.zsh/.zi-help
|-- autoload.zsh/.zi-list-bindkeys
|-- autoload.zsh/.zi-list-compdef-replay
|-- autoload.zsh/.zi-ls
|-- autoload.zsh/.zi-module
|-- autoload.zsh/.zi-recently
|-- autoload.zsh/.zi-search-completions
|-- autoload.zsh/.zi-self-update
|-- autoload.zsh/.zi-show-all-reports
|-- autoload.zsh/.zi-show-completions
|-- autoload.zsh/.zi-show-debug-report
|-- autoload.zsh/.zi-show-registered-plugins
|-- autoload.zsh/.zi-show-report
|-- autoload.zsh/.zi-show-times
|-- autoload.zsh/.zi-show-zstatus
|-- autoload.zsh/.zi-uncompile-plugin
|-- autoload.zsh/.zi-uninstall-completions
|-- autoload.zsh/.zi-unload
|-- autoload.zsh/.zi-update-or-status
|-- autoload.zsh/.zi-update-or-status-all
|-- compinit
|-- install.zsh/.zi-compile-plugin
|-- install.zsh/.zi-compinit
|-- install.zsh/.zi-forget-completion
`-- install.zsh/.zi-install-completions
```

Uses feature(s): autoload, compinit, eval, setopt, source

```
zi-turbo
```

## zi-turbo

```
FUNCTION: zi-turbo. [[[With zi-turbo first argument is a wait time and suffix, i.e. "Oa". Anything that doesn't match will be passed as if it were an ice mod. Default ices depth'3' and lucid, allowed values [0-9][a-d].
```

Has 1 line(s). Calls functions:

```
zi-turbo
`-- zi
Ê |-- +zi-message
 |-- +zi -prehel p-usage-message
Ê
 |ÊÊ `-- +zi-message
Ê
 |-- additional.zsh/.zi-clear-debug-report
 |-- additional.zsh/.zi-debug-start
Ê
 -- additional.zsh/.zi-debug-stop
Ê
 -- additional.zsh/.zi-debug-unload
Ê
 |-- autoload.zsh/.zi-analytics-menu
Ê
 |-- autoload.zsh/.zi-cdisable
Ê
 |-- autoload.zsh/.zi-cenable
Ê
 |-- autoload.zsh/.zi-clear-completions
Ê
 |-- autoload.zsh/.zi-compile-uncompile-all
Ê
 |-- autoload.zsh/.zi-compiled
Ê
 -- autoload.zsh/.zi-control-menu
Ê
 |-- autoload.zsh/.zi-help
Ê
 |-- autoload.zsh/.zi-list-bindkeys
Ê
 |-- autoload.zsh/.zi-list-compdef-replay
Ê
 |-- autoload.zsh/.zi-ls
Ê
 |-- autoload.zsh/.zi-module
Ê
 |-- autoload.zsh/.zi-recently
Ê
 |-- autoload.zsh/.zi-search-completions
Ê
 |-- autoload.zsh/.zi-self-update
Ê
 |-- autoload.zsh/.zi-show-all-reports
Ê
 |-- autoload.zsh/.zi-show-completions
 |-- autoload.zsh/.zi-show-debug-report
Ê
Ê
 |-- autoload.zsh/.zi-show-registered-plugins
Ê
 |-- autoload.zsh/.zi-show-report
Ê
 |-- autoload.zsh/.zi-show-times
Ê
 |-- autoload.zsh/.zi-show-zstatus
Ê
 |-- autoload.zsh/.zi-uncompile-plugin
Ê
 |-- autoload.zsh/.zi-uninstall-completions
Ê
 |-- autoload.zsh/.zi-unload
Ê
 |-- autoload.zsh/.zi-update-or-status
Ê
 |-- autoload.zsh/.zi-update-or-status-all
Ê
 |-- compinit
Ê
 |-- install.zsh/.zi-compile-plugin
Ê
 |-- install.zsh/.zi-compinit
Ê
 |-- install.zsh/.zi-forget-completion
 `-- install.zsh/.zi-install-completions
```

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

## zicdclear

```
]]]
FUNCTION: zicdclear. [[[
A wrapper for `zi cdclear -q' which can be called from hook ices like the atinit'', atload'', etc. ices.
```

Has 1 line(s). Calls functions:

```
zi cdcl ear
```

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

## zicdreplay

```
FUNCTION: zicdreplay. [[[
A function that can be invoked from within `atinit', `atload', etc. ice-mod.
It works like `zi cdreplay', which cannot be invoked from such hook ices.
```

Has 1 line(s). Calls functions:

```
zi cdrepl ay
```

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

## zicompdef

```
]]]
FUNCTION: zicompdef. [[[
Stores compdef for a replay with `zicdreplay' (turbo mode) or with `zi cdreplay'
(normal mode). An utility function of an undefined use case.
```

Has 1 line(s). Doesnt call other functions.

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

## zicompinit

```
FUNCTION: zicompinit. [[[
A function that can be invoked from within `atinit', `atload', etc. ice-mod.
It runs `autoload compinit; compinit' and respects
ZI[ZCOMPDUMP_PATH] and ZI[COMPINIT_OPTS].
```

Has 1 line(s). Calls functions:

```
zicompinit
`-- compinit
```

Uses feature(s): autoload, compinit

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

## zpcdclear

Has 1 line(s). Calls functions:

```
zpcdcl ear
```

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

# zpcdreplay

```
[]]]
Compatibility functions. [[[
zinit() { zi "$@"; }
```

Has 1 line(s). Calls functions:

```
zpcdrepl ay
```

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

## zpcompdef

Has 1 line(s). Doesnt call other functions.

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

## zpcompinit

Has 1 line(s). Calls functions:

```
zpcompinit
`-- compinit
```

Uses feature(s): autoload, compinit

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

## add-zsh-hook

Add to HOOK the given FUNCTION.
HOOK is one of chpwd, precmd, preexec, periodic, zshaddhistory,
zshexit, zsh\_directory\_name (the \_functions subscript is not required).

With -d, remove the function from the hook instead; delete the hook variable if it is empty.

-D behaves like -d, but pattern characters are active in the function name, so any matching function will be deleted from the hook.

Has 93 line(s). Doesnễt call other functions.

Uses feature(s): autoload, getopts

Called by:

@zi -scheduler
Script-Body

## compinit

Initialisation for new style completion. This mainly contains some helper functions and setup. Everything else is split into different files that will automatically be made autoloaded (see the end of this file). The names of the files that will be considered for autoloading are those that begin with an underscores (like `\_condition).

The first line of each of these files is read and must indicate what should be done with its contents:

`#compdef <names ...>'

Has 549 line(s). Doesn@t call other functions.

Uses feature(s): autoload, bindkey, compdef, compdump, eval, read, setopt, unfunction, zle, zstyle

#### Called by:

```
zi
zi compi ni t
zpcompi ni t
```

### 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.

```
: zi -tmp-subst-autol oad
: zi -tmp-subst-bi ndkey
Scri pt-Body
```