

# Package ‘configr’

November 13, 2018

**Type** Package

**Title** An Implementation of Parsing and Writing Configuration File  
(JSON/INI/YAML/TOML)

**Version** 0.3.4

**Description** Implements the JSON, INI, YAML and TOML parser for R setting and writing of configuration file. The functionality of this package is similar to that of package 'config'.

**Depends** R (>= 3.3.0)

**URL** <https://github.com/Miachol/configr>

**BugReports** <https://github.com/Miachol/configr/issues>

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Imports** jsonlite (>= 1.2), ini (>= 0.2), yaml (>= 2.1.3), RcppTOML (>= 0.1.3), stringr (>= 1.2.0), utils, glue

**RoxygenNote** 6.1.1

**Suggests** testthat, knitr, rmarkdown, prettydoc

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2018-11-13 18:10:02 UTC

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config.help	<i>Function to access external helps about configurations format or other related information</i>
-------------	---

---

## Description

Function to access external helps about configurations format or other related information

## Usage

```
config.help(name = NULL, show_all_names = FALSE)
```

## Arguments

name	Name or number of helps
show_all_names	Show all urls name

## Examples

```
config.help()
## Not run:
config.help(1)
config.help('ini_git_search')

## End(Not run)
```

---

config.list.merge	<i>Merge list file (From config package), list.right will overwrite the element also existed in list.left</i>
-------------------	---

---

**Description**

Merge list file (From config package), list.right will overwrite the element also existed in list.left

**Usage**

```
config.list.merge(list.left = list(), list.right = list())
```

**Arguments**

list.left	One list be merged left
list.right	One list be merged right

**Value**

A list

**See Also**

[merge](#) call in this function

**Examples**

```
config.json <- system.file('extdata', 'config.json', package='configr')
list.left <- list()
list.right <- eval.config(file = config.json)
config.list.merge(list.left, list.right)
list.left <- list(a=c(123,456))
list.right <- list(a=c(4,5,6))
config.list.merge(list.left, list.right)
```

---

config.sections.del	<i>Delete sections in config, just do config[sections] &lt;- NULL</i>
---------------------	---

---

**Description**

Delete sections in config, just do config[sections] <- NULL

**Usage**

```
config.sections.del(config, sections)
```

**Arguments**

config            a list of config (eg. generated by read.config)  
 sections        Sections that need to be deleted

**Value**

A list of config

**Examples**

```
config.json <- system.file('extdata', 'config.json', package = 'configr')
config <- read.config(config.json, file.type = 'json')
config <- config.sections.del(config, 'default')
```

---

configr                            *configr package implements the YAML parser, JSON parser, INI parser and TOML parser for R setting and writing of configuration file.*

---

**Description**

configr package implements the YAML parser, JSON parser, INI parser and TOML parser for R setting and writing of configuration file.

**Author(s)**

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**See Also**

Useful links:

<https://github.com/Miachol/configr>

Report bugs at <https://github.com/Miachol/configr/issues>

**Examples**

```
example.toml <- system.file('toml', 'example.toml', package='RcppTOML')
is.toml <- is.toml.file(example.toml)
file.type <- get.config.type(example.toml)
toml.list.raw <- read.config(example.toml)
owner.config <- eval.config(file = example.toml, config = 'owner')
owner.config.name <- eval.config(value = 'name', file = example.toml, config = 'owner')
toml.sections <- eval.config.sections(example.toml)
toml.merged.all <- eval.config.merge(example.toml)
toml.merged.selected <- eval.config.merge(example.toml, sections = c('database', 'owner'))

others <- list(others = list(lastupdate='2017-01-07'))
toml.list.update <- config.list.merge(toml.list.raw, others)
```

---

convert.config	<i>Covert configuration file from JSON/INI/YAML/TOML to JSON/INI/YAML</i>
----------------	---

---

## Description

Covert configuration file from JSON/INI/YAML/TOML to JSON/INI/YAML

## Usage

```
convert.config(file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  out.file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  convert.to = "ini", ...)
```

## Arguments

file	File name of configuration file to read from. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
out.file	Output path of configuration file. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist)
convert.to	JSON/INI/YAML
...	Arguments for <a href="#">read.config</a> and <a href="#">write.config</a>

## Value

Logical indicating whether convert success

## See Also

[fromJSON](#) JSON file will read by this

[read.ini](#) INI file will read by this

[yaml.load\\_file](#) YAML file will read by this

## Examples

```
config.json <- system.file('extdata', 'config.json', package='configr')
config <- convert.config(file=config.json, out.file = sprintf('%s/config.ini', tempdir()))
```

---

eval.config	<i>Read from the currently active configuration (JSON/INI/YAML/TOML be supported), 'retrieving either a single named value or all values as a config obj which have 'config', 'configtype', 'file' 'property.</i>
-------------	---

---

## Description

Read from the currently active configuration (JSON/INI/YAML/TOML be supported), 'retrieving either a single named value or all values as a config obj which have 'config', 'configtype', 'file' 'property.

## Usage

```
eval.config(value = NULL, config = Sys.getenv("R_CONFIG_ACTIVE",
  "default"), file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  ...)
```

## Arguments

value	Name of value (NULL to read all values)
config	Name of configuration to read from. Default is the value of 'the R_CONFIG_ACTIVE environment variable (Set to 'default' if the variable does not exist).
file	File name of configuration file to read from. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
...	Arguments for <a href="#">read.config</a>

## Value

Either a single value or all values as a list or logical FALSE indicating that is not standard JSON/INI/YAML/TOML format file

## See Also

[read.config](#) read config by this

[eval.config.merge](#) which can merge multiple parameter sets by sections

## Examples

```
config.json <- system.file('extdata', 'config.json', package='configr')
config <- eval.config(file=config.json)
config.extra.parsed.1 <- eval.config(file = config.json, extra.list = list(debug = 'TRUE'))
other.config <- system.file('extdata', 'config.other.yaml', package='configr')
config.extra.parsed.2 <- eval.config(file = config.json, extra.list = list(debug = 'TRUE'),
other.config = other.config)
```

---

eval.config.merge      *Merge config parameter sets by sections.*

---

## Description

Merge config parameter sets by sections.

## Usage

```
eval.config.merge(file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  sections = NULL, ...)
```

## Arguments

file	File name of configuration file to read from. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
sections	Need be merged parameter sets, eg. sections=c('default', 'version'), will default to all of config sections
...	Arguments for <a href="#">get.config.type</a> , <a href="#">eval.config.sections</a> , <a href="#">eval.config</a>

## Value

A list or logical FALSE indicating that is not standard JSON/INI/YAML/TOML format file

## See Also

[eval.config.sections](#) which only get all of the mainly parameter sets name in config file, [read.config](#) which only read from a config as a list, [eval.config](#) which only read one sections as config obj or a value from config file.

## Examples

```
config.json <- system.file('extdata', 'config.json', package='configr')
config.ini <- system.file('extdata', 'config.ini', package='configr')
config.yaml <- system.file('extdata', 'config.yaml', package='configr')
config.toml <- system.file('extdata', 'config.toml', package='configr')
eval.config.merge(config.json)
eval.config.merge(config.ini)
eval.config.merge(config.yaml)
eval.config.merge(config.toml)
```

---

`eval.config.sections` *Get config file parameter sections*

---

### Description

Get config file parameter sections

### Usage

```
eval.config.sections(file = Sys.getenv("R_CONFIGFILE_ACTIVE",
  "config.cfg"), ...)
```

### Arguments

<code>file</code>	File name of configuration file to read from. Default is the value of the 'R_CONFIGFILE_ACTIVE' environment variable (Set to 'config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
<code>...</code>	Arguments for <a href="#">read.config</a>

### Value

a character vector including the sections information of configuration file or logical FALSE indicating that is not standard JSON/INI/YAML/TOML format file

### See Also

[eval.config.merge](#) use this function to get all of sections of config file.

### Examples

```
config.json <- system.file('extdata', 'config.json', package='configr')
eval.config.sections(config.json)
```

---

`fetch.config` *Fetch configuration file and generate a merged list*

---

### Description

Fetch configuration file and generate a merged list

### Usage

```
fetch.config(links, return.files = FALSE,
  destdir = normalizePath("./"), keep.basename = TRUE, ...)
```



**Arguments**

links	Url or files path that need to be merged, e.g. /tmp/config, http://, ftp://.
return.files	Only save the links configuration files to destdir and not to read and merge the configuration files, default is FALSE
destdir	Fetch configuration files and copy to this directory, default is ./
keep.basename	Whether use the links basename as the saved name or use paste0(tempfile(), '_config')
...	Extra parameters pass to read.config

**Value**

A list or a vector

**Examples**

```
links <- c(paste0('https://raw.githubusercontent.com/JhuangLab',
  '/BioInstaller/master/inst/extdata/config/db/db_annoar.toml'),
  paste0('https://raw.githubusercontent.com/JhuangLab/BioInstaller',
  '/master/inst/extdata/config/db/db_main.toml'),
  system.file('extdata', 'config.toml', package = 'config'))
x <- fetch.config(links)
```

---

get.config.type	<i>Get config file type retrieving json/ini/yaml or FALSE</i>
-----------------	---

---

**Description**

Get config file type retrieving json/ini/yaml or FALSE

**Usage**

```
get.config.type(file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  ...)
```

**Arguments**

file	File name of configuration file to test. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
...	Arguments for <a href="#">is.json.file</a> , <a href="#">is.ini.file</a> , <a href="#">is.yaml.file</a> , <a href="#">is.toml.file</a>

**Value**

Character json/ini/yaml/toml or Logical FALSE indicating that is not standard JSON/INI/YAML/TOML format file

**See Also**

[is.json.file](#), [is.ini.file](#), [is.yaml.file](#), [is.toml.file](#)

**Examples**

```
config.json <- system.file('extdata', 'config.json', package='configr')
config.ini <- system.file('extdata', 'config.ini', package='configr')
config.yaml <- system.file('extdata', 'config.yaml', package='configr')
config.toml <- system.file('extdata', 'config.toml', package='configr')
get.config.type(file=config.json)
get.config.type(file=config.ini)
get.config.type(file=config.yaml)
get.config.type(file=config.toml)
```

---

is.config.active	<i>Test active configuration</i>
------------------	----------------------------------

---

**Description**

Check whether a configuration group is currently active

**Usage**

```
is.config.active(config)
```

**Arguments**

config	Configuration name
--------	--------------------

**Value**

Logical indicating whether the specified configuration is active

**Examples**

```
is.config.active('default')
```

---

is.configfile.active    *Test active configuration file*

---

**Description**

Check whether a configuration file is currently active

**Usage**

```
is.configfile.active(config.file)
```

**Arguments**

config.file    Configuration filename

**Value**

Logical indicating whether the specified configuration file is active

**Examples**

```
is.configfile.active('config.cfg')
```

---

is.ini.file            *Function to check wheather file is INI format*

---

**Description**

Function to check wheather file is INI format

**Usage**

```
is.ini.file(file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  ini.file.debug = FALSE, ...)
```

**Arguments**

file            File name of configuration file to test. Defaults to the value of the 'R\_CONFIGFILE\_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)

ini.file.debug    If TRUE, it will show error infomation when read INI config, default is FALSE

...            Arguments for [read.ini](#)

**Value**

Logical indicating whether the specified configuration file is INI format

**See Also**

[is.json.file](#), [is.yaml.file](#), [is.toml.file](#)

**Examples**

```
config.json <- system.file('extdata', 'config.json', package='configr')
config.ini <- system.file('extdata', 'config.ini', package='configr')
config.yaml <- system.file('extdata', 'config.yaml', package='configr')
config.toml <- system.file('extdata', 'config.toml', package='configr')
print(is.ini.file(config.ini))
print(is.ini.file(config.json))
print(is.ini.file(config.yaml))
print(is.ini.file(config.toml))
```

---

is.json.file

*Function to check wheather file is JSON format*

---

**Description**

Function to check wheather file is JSON format

**Usage**

```
is.json.file(file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  json.file.debug = FALSE, ...)
```

**Arguments**

file	File name of configuration file to test. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
json.file.debug	If TRUE, it will show error infomation when read JSON config, default is FALSE
...	Arguments for <a href="#">readLines</a> and <a href="#">fromJSON</a>

**Value**

Logical indicating whether the specified configuration file is JSON format

**See Also**

[is.ini.file](#), [is.yaml.file](#), [is.toml.file](#)

**Examples**

```

config.json <- system.file('extdata', 'config.json', package='configr')
config.ini <- system.file('extdata', 'config.ini', package='configr')
config.yaml <- system.file('extdata', 'config.yaml', package='configr')
config.toml <- system.file('extdata', 'config.toml', package='configr')
print(is.json.file(config.json))
print(is.json.file(config.ini))
print(is.json.file(config.yaml))
print(is.json.file(config.toml))

```

---

is.toml.file	<i>Function to check wheather file is TOML format</i>
--------------	---

---

**Description**

Function to check wheather file is TOML format

**Usage**

```

is.toml.file(file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  toml.file.debug = FALSE, ...)

```

**Arguments**

file	File name of configuration file to test. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
toml.file.debug	If TRUE, it will show error infomation when read TOML config, default is FALSE
...	Arguments for <a href="#">parseTOML</a>

**Value**

Logical indicating whether the specified configuration file is TOML format

**See Also**

[is.json.file](#) [is.ini.file](#), [is.yaml.file](#)

**Examples**

```

config.json <- system.file('extdata', 'config.json', package='configr')
config.ini <- system.file('extdata', 'config.ini', package='configr')
config.yaml <- system.file('extdata', 'config.yaml', package='configr')
config.toml <- system.file('extdata', 'config.toml', package='configr')
print(is.toml.file(config.json))
print(is.toml.file(config.ini))

```

```
print(is.toml.file(config.yaml))
print(is.toml.file(config.toml))
```

---

is.yaml.file	<i>Function to check wheather file is YAML format</i>
--------------	---

---

## Description

Function to check wheather file is YAML format

## Usage

```
is.yaml.file(file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  yaml.file.debug = FALSE, ...)
```

## Arguments

file	File name of configuration file to test. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
yaml.file.debug	If TRUE, it will show error infomation when read YAML config, default is FALSE
...	Arguments for <a href="#">is.json.file</a> , <a href="#">readLines</a> and <a href="#">yaml.load</a>

## Value

Logical indicating whether the specified configuration file is YAML format

## See Also

[is.json.file](#), [is.ini.file](#), [is.toml.file](#)

## Examples

```
config.json <- system.file('extdata', 'config.json', package='configr')
config.ini <- system.file('extdata', 'config.ini', package='configr')
config.yaml <- system.file('extdata', 'config.yaml', package='configr')
config.toml <- system.file('extdata', 'config.toml', package='configr')
print(is.yaml.file(config.yaml))
print(is.yaml.file(config.json))
print(is.yaml.file(config.ini))
print(is.yaml.file(config.toml))
```

---

parse.extra	<i>Parse the configuration var format, and replace it by extra.list values</i>
-------------	--

---

## Description

Parse the configuration var format, and replace it by extra.list values

## Usage

```
parse.extra(config, extra.list = list(), other.config = "",
  rcmd.parse = FALSE, bash.parse = FALSE, glue.parse = FALSE,
  glue.flag = "!!glue", global.vars.field = "global_vars")
```

## Arguments

config	A list that were generated by read.config/eval.config/eval.config.merge
extra.list	A list that can replace the configuration file 'debug' by list(debug = TRUE), and debug will be setted to TRUE
other.config	Path of another configuration file that can replace the configuration file 'key:value'
rcmd.parse	Logical wheather parse '@>@str_replace('abc', 'b', 'c')@<@' in config to 'acc'
bash.parse	Logical wheather parse '#>#echo \$HOME#<#' in config to your HOME PATH
glue.parse	Logical wheather parse '!!glue1:5' in config to ['1','2','3','4','5']; ['nochange', '!!glue(1:5)', 'nochange'] => ['nochange', '1', '2', '3', '4', '5', 'nochange']
glue.flag	A character flag indicating wheather run glue() function to parse (Default is !!glue)
global.vars.field	All vars defined in global.vars.field will as the extra.list params [gloval_var]

## Value

A list

## Examples

```
config.json <- system.file('extdata', 'config.json', package='configr')
config.other <- system.file('extdata', 'config.other.yaml', package='configr')
config <- read.config(config.json)
parse.extra(config, list(debug = 'TRUE'))
parse.extra(config, list(debug = 'TRUE'), other.config = config.other)
parse.extra(config, list(debug = 'TRUE'), other.config = config.other,
  rcmd.parse = TRUE)
parse.extra(config, list(debug = 'TRUE'), other.config = config.other,
  rcmd.parse = TRUE, bash.parse = TRUE)

raw <- c('a', '!!glue{1:5}', 'c')
```

```

expect.parsed.1 <- c('a', '1', '2', '3', '4', '5', 'c')
list.raw <- list(glue = raw, nochange = 1:10)
parsed <- parse.extra(list.raw, glue.parse = TRUE)

raw <- c('!!glue_numeric{1:5}')
expect.parsed.1 <- c(1, 2, 3, 4, 5)
list.raw <- list(glue = raw, nochange = 1:10)
parsed <- parse.extra(list.raw, glue.parse = TRUE)

```

---

read.config	<i>Read from the file (JSON/INI/YAML/TOML be supported), retrieving all values as a list.</i>
-------------	---

---

## Description

Read from the file (JSON/INI/YAML/TOML be supported), retrieving all values as a list.

## Usage

```

read.config(file = Sys.getenv("R_CONFIGFILE_ACTIVE", "config.cfg"),
  extra.list = list(), other.config = "", rcmd.parse = FALSE,
  bash.parse = FALSE, glue.parse = FALSE, glue.flag = "!!glue",
  global.vars.field = "global_vars", file.type = NULL, ...)

```

## Arguments

file	File name of configuration file to read from. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist and JSON/INI/YAML/TOML format only)
extra.list	A list that can replace the configuration file 'debug' by list(debug = 'TRUE'), and debug will be setted to 'TRUE'
other.config	Path of another configuration file that can replace the configuration file 'key:value'
rcmd.parse	Logical wheather parse '@>@str_replace('abc', 'b', 'c')@<@' that existed in config to 'acc'
bash.parse	Logical wheather parse '#>#echo \$HOME#<#' in config to your HOME PATH
glue.parse	Logical wheather parse '!!glue1:5' in config to ['1','2','3','4','5']; ['nochange', '!!glue(1:5)', 'nochange'] => ['nochange', '1', '2', '3', '4', '5', 'nochange']
glue.flag	A character flage indicating wheather run glue() function to parse (Default is !!glue)
global.vars.field	All vars defined in global.vars.field will as the extra.list params [gloval_var]
file.type	Default is no need to specify the variable, file.type will be automatically identify by <a href="#">get.config.type</a> . If the value be specified, the step of filetype identification will be skipped.
...	Arguments for <a href="#">get.config.type</a> , <a href="#">fromJSON</a> , <a href="#">read.ini</a> , <a href="#">yaml.load_file</a> , <a href="#">parseTOML</a> , <a href="#">readLines</a>



**Value**

All values as a list or logical FALSE indicating that is not standard JSON/INI/YAML/TOML format file

**See Also**

[fromJSON](#) JSON file will read by this

[read.ini](#) INI file will read by this

[yaml.load\\_file](#) YAML file will read by this

[parseTOML](#) TOML file will read by this

**Examples**

```
config.json <- system.file('extdata', 'config.json', package='configr')
config <- read.config(file=config.json)
config.extra.parsed.1 <- read.config(config.json, list(debug = 'TRUE'))
other.config <- system.file('extdata', 'config.other.yaml', package='configr')
config.extra.parsed.2 <- read.config(config.json, list(debug = 'TRUE'), other.config)
```

---

str2config

*Parse configuration string to R list object.*

---

**Description**

Parse configuration string to R list object.

**Usage**

```
str2config(text, ...)
```

**Arguments**

text	JSON, YAML, INI or TOML format string.
...	Arguments pass to <a href="#">read.config</a>

**Value**

List

**Examples**

```
json_string <- '{"city" : "Crich"}\n'
yaml_string <- 'foo: 123\n'
json_config <- str2config(json_string)
yaml_config <- str2config(yaml_string)
```

---

write.config	<i>Write config in a file (JSON/YAML/INI)</i>
--------------	---

---

### Description

Write config in a file (JSON/YAML/INI)

### Usage

```
write.config(config.dat, file.path = Sys.getenv("R_CONFIGFILE_ACTIVE",
  "config.cfg"), write.type = "ini", sections = NULL, ...)
```

### Arguments

config.dat	a list of config (eg. generated by read.config)
file.path	File path of configuration to write. Defaults to the value of the 'R_CONFIGFILE_ACTIVE' environment variable ('config.cfg' if the variable does not exist)
write.type	json/ini/yaml
sections	Sections that need be write in file, default is NULL and use all of sections
...	Arguments for <a href="#">write.ini</a> , <a href="#">prettify</a> , <a href="#">toJSON</a> , <a href="#">as.yaml</a> and <a href="#">cat</a> encoding if not specifield

### Value

Logical indicating whether the specified configuration file be written successful

### See Also

[toJSON](#) convert a list to JSON string, [prettify](#) convert a JSON string to user friendly view, [write.ini](#) write a list in a INI format file, [as.yaml](#) convert a list to YAML format

### Examples

```
list.test <- list(a=c(123,456))
out.yaml <- sprintf('%s/test.yaml', tempdir())
write.config(list.test, out.yaml, write.type = 'yaml')
```

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