

Package ‘ronfig’

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Type Package

Title Load Configuration Values

Version 0.0.5

Description A simple approach to configuring R projects with different parameter values. Configurations are specified using a reduced subset of base R and parsed accordingly.

URL <https://timtaylor.codeberg.page/ronfig/>

BugReports <https://codeberg.org/TimTaylor/ronfig/issues>

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Encoding UTF-8

RoxygenNote 7.3.3

Imports carrier, cli, utils

Suggests knitr, quarto, testthat (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder quarto

NeedsCompilation no

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load_config	<i>Load configuration</i>
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Description

Load a user defined configuration from file. By default (i.e. when `as_is = FALSE`), `load_config()` requires inputs to be given as uniquely-named lists. It first parses the configuration file looking for a 'default' entry. With no additional arguments this will be returned as a list to the user. If the user specifies an additional list to consider (via the `config` argument) then this list is layered on top (using `utils::modifyList()`).

Usage

```
load_config(filename, config, crates, ..., as_is = FALSE, default = "default")
```

Arguments

<code>filename</code>	Configuration file to read from.
<code>config</code>	Name of entry in configuration file to layer on top of 'default'. Not used if <code>as_is = TRUE</code> .
<code>crates</code>	A list of <code>carrier::crate</code> objects which are used to inject functions in to the environment where the configuration file will be evaluated.
<code>...</code>	Not currently used.
<code>as_is</code>	Should the configuration file be read in as is, without layering on top of the default config? Defaults to <code>FALSE</code> .
<code>default</code>	The default configuration to use.

Details

Configuration files can be specified using a reduced subset of base R. By default this is restricted to the following operators and functions:

- `<-`, `=`, `+`, `-`, `*`, `:`,
- `$`, `[`, `[[`,
- `$<-`, `[<-`, `[[<-`,
- `c`,
- `as.Date`,
- `array`, `matrix`,
- `list`, `data.frame`,
- `Sys.Date`, `Sys.time`,
- `seq`, `sequence` and `seq_len`.
- `file.path`

We also enable a convenience function, `cc`, which automatically quotes input to save typing.

Users can also inject their own functions in to the evaluation environment by supplying a list of [crates](#) as an additional argument.

Value

If `as_is = FALSE` (default) a list contain entries corresponding to the chosen config. If `as_is = TRUE`, a list of all entries in the evaluated configuration file.

Examples

```
# load the example configuration
file <- system.file("config.R", package = "ronfig")
cat(readChar(file, file.info(file)$size))

# default configuration
str(load_config(file))

# debug configuration
str(load_config(file, "debug"))

# forecast configuration
str(load_config(file, "forecast"))

# Injecting crated function
f <- tempfile()
cat("default <- list(a=mean(1:10))", file = f)

# will fail as mean() not available
tryCatch(with(load_config(f), a), error = conditionMessage)

# will work if we inject crated mean
crate <- carrier::crate(function(x) mean(x))
with(load_config(f, crates = list(mean = crate)), a)

unlink(f)
```

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