

Package ‘params’

August 14, 2015

Type Package

Title Simplify Parameters

Description An interface to simplify organizing parameters used in a package, using external configuration files.

This attempts to provide a cleaner alternative to options().

Version 0.2.4

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Depends whisker

Imports knitr,
utils

Suggests openxlsx

URL <https://github.com/sahilseth/params>

BugReports <https://github.com/sahilseth/params/issues>

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load_opts	<i>Setting/loading and extracting various options into the environment</i>
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Description

- set_opts(): set options into a custom envir
- get_opts(): extract options
- load_opts(): Read a tab delimited file using [read_sheet](#) and load them as options using [set_opts](#)
- new_opts(): create a options manager to be included in a package
- print.opts(): print pkg options as a pretty table

Usage

```
load_opts(x, check = TRUE, envir = opts, verbose = TRUE, ...)

get_opts(x, envir = opts)

set_opts(..., .dots, envir = opts)

## S3 method for class 'opts'
print(x, ...)

new_opts(envir = new.env())
```

Arguments

x	<ul style="list-style-type: none"> • get_opts: a character vector of names of options to extract. • load_opts: path to a configuration file
check	load_opts(): in case of a configuration file, whether to check if files defined in parameters exists..
envir	environ used to store objects
verbose	load_opts()be chatty ?
...	set_opts(): a named set of variable/value pairs seperated by comma
.dots	set_opts(): A named list, as a alternative to ...

Details

Integrating [params](#) in a package:: ## create a options manager: opts_mypkg = new_opts()

The object opts_mypkg is a list of a few functions, which set, fetch and load options in a isolated environment. Here are a few examples of how you might really use them:

Set some options: opts_mypkg\$set(version = '0.1', name = 'mypkg')

Fetch ALL options: opts_mypkg\$get() OR opts_mypkg\$get("version")

Loading configuration files, load_opts() OR opts_pkg\$load():: There are cases when options and params are actually paths to scripts or other apps or folders etc. In such cases it might be useful to quickly check if these paths exists on the sytem. As such load_opts() automatically checks params ending with path|dir|exe (if check=TRUE).

Below is a list example options, retrieved via

```
get_opts():
lname      lvalue      |
|:-----|:-----|
|default_regex |(.*?) |
|my_conf_path  |~/flowr/conf |
|my_dir       |path/to/a/folder|
|my_path      |~/flowr      |
|my_tool_exe  |/usr/bin/lis |
```

See Also

[read_sheet](#)

[read_sheet load_opts](#)

read_sheet	<i>read_sheet</i>
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Description

Auto detect file type, read it and clean it.

Usage

```
read_sheet(x, id_column, start_row = 1, sheet = 1, ext, header = TRUE,
  verbose = FALSE, ...)
```

Arguments

x	path to a file, to be read
id_column	all rows which have this column as blank are skipped. See details.
start_row	supplied to read.xlsx
sheet	supplied to read.xlsx, index or name of the sheet to be read from excel file
ext	determined using file extention. Specifying will override
header	first line is header?
verbose	be chatty?
...	passed onto read.xlsx of openxlsx, read.table of read.csv2 depending on the file type.

Details

If id_column is missing, default if first column

write_sheet	<i>A simple wrapper around write.table with some sugar.</i>
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Description

A simple wrapper around write.table with some sugar.

Usage

```
write_sheet(x, file)
```

Arguments

x	a data.frame
file	output file

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