Package 'reval'

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Title Argument Table Generation for Sensitivity Analysis

Version 3.1-0

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Description Simplified scenario testing and sensitivity analysis,
redesigned to use packages 'future' and 'furrr'. Provides
functions for generating function argument sets using
one-factor-at-a-time (OFAT) and (sampled) permutations.

Encoding UTF-8

URL https://github.com/mkoohafkan/reval

BugReports https://github.com/mkoohafkan/reval/issues

License GPL (>= 3)

Depends R (>= 4.1)

Imports purrr (>= 0.3), dplyr (>= 1.0), rlang (>= 0.4)

Suggests future(>= 1.21), furrr (>= 0.2), knitr (>= 1.33), rmarkdown
(>= 2.8), ggplot2 (>= 3.3), tidyr (>= 1.1), rivr (>= 1.2)

VignetteBuilder knitr

RoxygenNote 7.1.2

NeedsCompilation no

Repository CRAN

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R topics documented:

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reval-package   *Repeated Function Evaluation For Sensitivity Analysis*

Description

This package provides functions to generate argument tables for scenario testing and sensitivity analysis with R.

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args_ofat   *One Factor At a Time Argument Set*

Description

Generate an argument table based on OFAT.

Usage

```
args_ofat(...)
```

Arguments

...   Named arguments to a function.

Value

A tibble of argument combinations.

Examples

```
args_ofat(x = 1:5, y = 1:3)
args_ofat(x = 1:3, y = 1:3, z = 1:3)
```

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args_permute   *Permutation Argument Set*

Description

Generate an argument table based on permutations.

Usage

```
args_permute(..., .n)
```

Arguments

`...`	Named arguments to a function.
`.n`	the number of argument permutations to evaluate (sampling without replacement). If missing, all possible permutations are returned.

Value

A tibble of argument combinations.

Examples

```
args_permute(x = 1:5, y = 1:2)
args_permute(x = 1:10, y = 1:10, z = 1:10, .n = 10)
```

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args_set   *Argument Set*

Description

Generate an argument table from a set of arguments, following the standard rules for vector recycling in R.

Usage

```
args_set(...)
```

Arguments

`...`	Named arguments to a function.

Value

A tibble of argument combinations.

Examples

```
args_set(x = 1:10, y = 1:10)
args_set(x = 1:10, y = 1:5, z = 1:2)
# mismatched argument lengths will generate a warning
## Not run:
args_set(x = 1:10, y = 1:3)

## End(Not run)
```

Index