Package 'ready4class'

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Title Readyforwhatsnext Tools For Creating And Extending
Classes.

Version 0.0.0.9119

Description ready4class provides classes and methods that
are designed to standardise and streamline the process for extending
the readyforwhatsnext data synthesis and simulation framework with new
classes.

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R topics documented:

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ready4class-package   *ready4class: Readyforwhatsnext Tools For Creating And Extending Classes.*

Description

ready4class provides classes and methods that are designed to standardise and streamline the process for extending the readyforwhatsnext data synthesis and simulation framework with new classes.

Details

To learn more about ready4class, start with the vignettes: `browseVignettes(package = "ready4class")`

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abbreviations_lup *Common abbreviations lookup table*

Description

A lookup table for abbreviations commonly used in object names in the ready4classpackage.

Usage

```
abbreviations_lup
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 248 rows and 3 columns.

Details

A tibble

short_name_chr Short name (a character vector)

long_name_chr Long name (a character vector)

plural_lgl Plural (a logical vector)

Source

<https://readyforwhatsnext.github.io/readyforwhatsnext/>

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fn_type_lup_tb *Function type lookup table*

Description

A lookup table to find descriptions for different types of functions used within the ready4class package suite.

Usage

```
fn_type_lup_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 23 rows and 6 columns.

Details

A tibble

fn_type_nm_chr Function type name (a character vector)

fn_type_desc_chr Function type description (a character vector)

first_arg_desc_chr First argument description (a character vector)

second_arg_desc_chr Second argument description (a character vector)

is_generic_lgl Is generic (a logical vector)

is_method_lgl Is method (a logical vector)

Source

https://readyforwhatsnext.github.io/readyforwhatsnext/

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is_ready4_class_pt_lup

Is readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Description

Check whether an object is a valid instance of the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Usage

```
is_ready4_class_pt_lup(x)
```

Arguments

x   An object of any type

Details

Readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE class of metadata of prototype classes.

Value

A logical value, TRUE if a valid instance of the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

```
is_ready4_constructor_tbl
```
Is readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

Description

Check whether an object is a valid instance of the readyforwhatsnext S3 class CLASS CONSTRUC-TOR TABLE

Usage

```
is_ready4_constructor_tbl(x)
```

Arguments

x   An object of any type

Details

Readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE of metadata required to make new classes.

Value

A logical value, TRUE if a valid instance of the readyforwhatsnext S3 class CLASS CONSTRUC-TOR TABLE

```
make_new_ready4_class_pt_lup
```
Make new readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Description

Create a new unvalidated instance of the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Usage

```
make_new_ready4_class_pt_lup(x)
```

Arguments

x   A prototype for the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Details

Readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE class of metadata of prototype classes.

Value

An unvalidated instance of the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TA-
BLE

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make_new_ready4_constructor_tbl

*Make new readyforwhatsnext S3 class CLASS CONSTRUCTOR TA-
BLE*

Description

Create a new unvalidated instance of the readyforwhatsnext S3 class CLASS CONSTRUCTOR
TABLE

Usage

```
make_new_ready4_constructor_tbl(x)
```

Arguments

x   A prototype for the readyforwhatsnext S3 class CLASS CONSTRUCTOR TA-
              BLE

Details

Readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE of metadata required to make new
classes.

Value

An unvalidated instance of the readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

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make_prototype_ready4_class_pt_lup

*Make prototype readyforwhatsnext S3 class CLASS PROTOTYPE
LOOKUP TABLE*

Description

Create a new prototype for the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TA-
BLE

Usage

```
make_prototype_ready4_class_pt_lup()
```

Details

Readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE class of metadata of proto-
type classes.

Value

A prototype for readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

```
make_prototype_ready4_constructor_tbl
```
Make prototype readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

Description

Create a new prototype for the readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

Usage

```
make_prototype_ready4_constructor_tbl()
```

Details

Readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE of metadata required to make new classes.

Value

A prototype for readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

```
ready4_class_pt_lup
```
readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Description

Create a new valid instance of the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Usage

```
ready4_class_pt_lup(x = make_prototype_ready4_class_pt_lup())
```

Arguments

x   A prototype for the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE, Default: make_prototype_ready4_class_pt_lup()

Details

Readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE class of metadata of prototype classes.

Value

A validated instance of the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

ready4_constructor_tbl

readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

Description

Create a new valid instance of the readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

Usage

```
ready4_constructor_tbl(x = make_prototype_ready4_constructor_tbl())
```

Arguments

x   A prototype for the readyforwhatsnext S3 class CLASS CONSTRUCTOR TA-
           BLE, Default: make_prototype_ready4_constructor_tbl()

Details

Readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE of metadata required to make new
classes.

Value

A validated instance of the readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

remake_ls_cols   *Remake list columns*

Description

remake_ls_cols() is a Remake List Columns generic that remakes list columns.NA

Usage

```
remake_ls_cols(x, ...)
```

Arguments

x   An object
...   Additional arguments

remake_ls_cols.ready4_constructor_tbl

Remake list columns method applied to readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE.

Description

remake_ls_cols.ready4_constructor_tbl() is a Remake List Columns method that remakes list columns. This method is implemented for the readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE.NA

Usage

```
## S3 method for class 'ready4_constructor_tbl'
remake_ls_cols(x)
```

Arguments

x   An instance of readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

Value

Instance (a readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE)

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validate_ready4_class_pt_lup

Validate readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Description

Validate an instance of the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Usage

```
validate_ready4_class_pt_lup(x)
```

Arguments

x   An unvalidated instance of the readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

Details

Readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE class of metadata of prototype classes.

Value

A prototpe for readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE

---

validate_ready4_constructor_tbl
Validate readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

Description

Validate an instance of the readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

Usage

```
validate_ready4_constructor_tbl(x)
```

Arguments

x   An unvalidated instance of the readyforwhatsnext S3 class CLASS CONSTRUC-
TOR TABLE

Details

Readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE of metadata required to make new
classes.

Value

A prototpe for readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

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write_classes_and_make_lup
Write classes and make lookup table

Description

write_classes_and_make_lup() is a Write Classes and Make Lookup Table generic that makes new
classes and creates or updates a class prototype lookup table.NA

Usage

```
write_classes_and_make_lup(x, ...)
```

Arguments

x   An object

...   Additional arguments

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write_classes_and_make_lup.ready4_constructor_tbl

Write classes and make lookup table method applied to readyforwhat-snext S3 class CLASS CONSTRUCTOR TABLE.

Description

write_classes_and_make_lup.ready4_constructor_tbl() is a Write Classes and Make Lookup Table method that makes new classes and creates or updates a class prototype lookup table. This method is implemented for the readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE. The function returns Instance (a readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE).

Usage

```
## S3 method for class 'ready4_constructor_tbl'
write_classes_and_make_lup(
  x,
  dev_pkg_ns_1L_chr = ready4fun::get_dev_pkg_nm(),
  name_pfx_1L_chr = paste0(ready4fun::get_dev_pkg_nm(), "_"),
  output_dir_1L_chr = "R",
  delete_cdn_ptrn_chr = NA_character_,
  file_exists_cdn_1L_chr = "overwrite",
  init_class_pt_lup = NULL,
  nss_to_ignore_chr = NA_character_,
  req_pkgs_chr = NA_character_,
  class_in_cache_cdn_1L_chr = "stop",
  abbreviations_lup = NULL
)
```

Arguments

x   An instance of readyforwhatsnext S3 class CLASS CONSTRUCTOR TABLE

dev_pkg_ns_1L_chr
                    Development package namespace (a character vector of length one), Default: ready4fun::get_dev_pkg_nm()

name_pfx_1L_chr
                    Name prefix (a character vector of length one), Default: paste0(ready4fun::get_dev_pkg_nm(), "_")

output_dir_1L_chr
                    Output directory (a character vector of length one), Default: 'R'

delete_cdn_ptrn_chr
                    Delete condition pattern (a character vector), Default: 'NA'

file_exists_cdn_1L_chr
                    File exists condition (a character vector of length one), Default: 'overwrite'

init_class_pt_lup
                    Init class prototype (a lookup table), Default: NULL

nss_to_ignore_chr
                    Namespaces to ignore (a character vector), Default: 'NA'

req_pkgs_chr   Req packages (a character vector), Default: 'NA'

```
class_in_cache_cdn_1L_chr
```
               Class in cache condition (a character vector of length one), Default: 'stop'
```
abbreviations_lup
```
               Abbreviations (a lookup table), Default: NULL

Value

Instance (a readyforwhatsnext S3 class CLASS PROTOTYPE LOOKUP TABLE)

%>%   *Pipe operator*

Description

Implements: https://github.com/sckott/analogsea/issues/32 and https://github.com/rstudio/ggvis/blob/master/R/pipe.R.

Arguments

lhs, rhs   An object and a function to apply to it

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