

Package ‘youthu’

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Title Youth Outcomes to Health Utility

Version 0.0.0.9095

Description Tools for mapping measures routinely collected in youth mental health services to Quality Adjusted Life Years (QALYs). Part of the First Bounce model of primary youth mental health services. This development version of the youthu package has been made available as part of the process of testing and documenting the package. If you have any questions, please contact the authors (matthew.hamilton@orygen.org.au). The documentation for this package has been automatically generated by the ready4fun package and is therefore quite rudimentary. Further human authored documentation will follow in 2021.

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URL <https://ready4-dev.github.io/youthu/>,
<https://github.com/ready4-dev/youthu>, <https://www.ready4-dev.com/>

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

Imports assertthat,

BCEA,
boot,
dataverse (>= 0.3.9),
dplyr,
knitr,
knitrBootstrap,
lifecycle,
lubridate,
magrittr,
MatchIt,
methods,
purrr,
ready4fun (>= 0.0.0.9298),
ready4show (>= 0.0.0.9038),
ready4use (>= 0.0.0.9133),
rlang,
stats,

stringr,
 testthat,
 tibble,
 tidyR,
 tidyselect,
 truncnorm,
 TTU (>= 0.0.0.9317),
 utils,
 youthvars (>= 0.0.0.9064)

VignetteBuilder knitr

Depends R (>= 2.10)

Suggests rmarkdown

Remotes ready4-dev/ready4show,
 ready4-dev/ready4use,
 ready4-dev/youthvars,
 ready4-dev/TTU,
 iqss/dataverse-client-r,
 ready4-dev/ready4fun

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youthu-package

youthu: Youth Outcomes to Health Utility

Description

Tools for mapping measures routinely collected in youth mental health services to Quality Adjusted Life Years (QALYs). Part of the First Bounce model of primary youth mental health services. This development version of the youthu package has been made available as part of the process of testing and documenting the package. If you have any questions, please contact the authors (matthew.hamilton@orygen.org.au). The documentation for this package has been automatically generated by the ready4fun package and is therefore quite rudimentary. Further human authored documentation will follow in 2021.

Details

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

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- Oxygen [copyright holder, funder]
- Headspace [funder]
- National Health and Medical Research Council [funder]

See Also

Useful links:

- <https://ready4-dev.github.io/youthu/>
- <https://github.com/ready4-dev/youthu>
- <https://www.ready4-dev.com/>

`abbreviations_lup` *Common abbreviations lookup table*

Description

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

Usage

`abbreviations_lup`

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 503 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://doi.org/10.7910/DVN/2Y9VF9>

`add_change_in_ds_var` *Add change in dataset variable*

Description

`add_change_in_ds_var()` is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add change in dataset variable. Function argument `ds_tb` specifies the object to be updated. The function returns Updated dataset (a tibble).

Usage

```
add_change_in_ds_var(
  ds_tb,
  id_var_nm_1L_chr = "fkClientID",
  round_var_nm_1L_chr = "round",
  round_b1_val_1L_chr = "Baseline",
  change_var_nm_1L_chr,
  var_nm_1L_chr,
  arrange_by_id_lgl = T
)
```

Arguments

ds_tb Dataset (a tibble)
 id_var_nm_1L_chr Identity variable name (a character vector of length one), Default: 'fkClientID'
 round_var_nm_1L_chr Round variable name (a character vector of length one), Default: 'round'
 round_bl_val_1L_chr Round baseline value (a character vector of length one), Default: 'Baseline'
 change_var_nm_1L_chr Change variable name (a character vector of length one)
 var_nm_1L_chr Variable name (a character vector of length one)
 arrange_by_id_lgl Arrange by identity (a logical vector), Default: T

Value

Updated dataset (a tibble)

add_costs_by_tmpt *Add costs by time point*

Description

add_costs_by_tmpt() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add costs by time point. Function argument ds_tb specifies the object to be updated. The function returns Updated dataset (a tibble).

Usage

```
add_costs_by_tmpt(  
  ds_tb,  
  round_var_nm_1L_chr,  
  round_lvls_chr = c("Baseline", "Follow-up"),  
  costs_mean_dbl,  
  costs_sd_dbl,  
  extra_cost_args_ls = list(costs_var_nm_1L_chr = "costs_dbl"),  
  fn = add_costs_from_gamma_dstr  
)
```

Arguments

ds_tb Dataset (a tibble)
 round_var_nm_1L_chr Round variable name (a character vector of length one)
 round_lvls_chr Round levels (a character vector), Default: c("Baseline", "Follow-up")
 costs_mean_dbl Costs mean (a double vector)
 costs_sd_dbl Costs standard deviation (a double vector)
 extra_cost_args_ls Extra cost arguments (a list), Default: list(costs_var_nm_1L_chr = "costs_dbl")
 fn Function (a function), Default: add_costs_from_gamma_dstr

Value

Updated dataset (a tibble)

`add_costs_from_gamma_dstr`

Add costs from gamma distribution

Description

`add_costs_from_gamma_dstr()` is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add costs from gamma distribution. Function argument `ds_tb` specifies the object to be updated. The function returns Updated dataset (a tibble).

Usage

```
add_costs_from_gamma_dstr(
  ds_tb,
  costs_mean_dbl,
  costs_sd_dbl,
  costs_var_nm_1L_chr = "costs_dbl"
)
```

Arguments

<code>ds_tb</code>	Dataset (a tibble)
<code>costs_mean_dbl</code>	Costs mean (a double vector)
<code>costs_sd_dbl</code>	Costs standard deviation (a double vector)
<code>costs_var_nm_1L_chr</code>	Costs variable name (a character vector of length one), Default: 'costs_dbl'

Value

Updated dataset (a tibble)

`add_dates_from_dstr`

Add dates from distribution

Description

`add_dates_from_dstr()` is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add dates from distribution. Function argument `ds_tb` specifies the object to be updated. The function returns Updated dataset (a tibble).

Usage

```
add_dates_from_dstr(
  ds_tb,
  bl_start_date_dtm,
  bl_end_date_dtm,
  duration_args_ls,
  duration_fn = stats::rnorm,
  date_var_nm_1L_chr = "date_psx",
  id_var_nm_1L_chr = "fkClientID",
  round_var_nm_1L_chr = "round",
  round_bl_val_1L_chr = "Baseline",
  origin_1L_chr = "1970-01-01"
)
```

Arguments

ds_tb	Dataset (a tibble)
bl_start_date_dtm	Baseline start date (a date vector)
bl_end_date_dtm	Baseline end date (a date vector)
duration_args_ls	Duration arguments (a list)
duration_fn	Duration (a function), Default: stats::rnorm
date_var_nm_1L_chr	Date variable name (a character vector of length one), Default: 'date_psx'
id_var_nm_1L_chr	Identity variable name (a character vector of length one), Default: 'fkClientID'
round_var_nm_1L_chr	Round variable name (a character vector of length one), Default: 'round'
round_bl_val_1L_chr	Round baseline value (a character vector of length one), Default: 'Baseline'
origin_1L_chr	Origin (a character vector of length one), Default: '1970-01-01'

Value

Updated dataset (a tibble)

`add_diffs_by_group_and_tmpt`

Add differences by group and time point

Description

`add_diffs_by_group_and_tmpt()` is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add differences by group and time point. Function argument `ds_tb` specifies the object to be updated. The function returns Updated dataset (a tibble).

Usage

```
add_diffs_by_group_and_tmpt(
  ds_tb = trial_ds_tb,
  cmprsn_var_nm_1L_chr = "study_arm_chr",
  cmprsn_group_match_val_chr = c("Intervention"),
  round_var_nm_1L_chr = "round",
  timepoint_match_val_1L_chr = "Follow-up",
  match_idx_var_nm_1L_chr = "match_idx_int",
  var_nms_chr,
  fns_ls,
  abs_mean_diff_dbl,
  diff_sd_dbl,
  multiplier_dbl,
  min_dbl,
  max_dbl,
  integer_lgl
)
```

Arguments

ds_tb	Dataset (a tibble), Default: trial_ds_tb
cmprsn_var_nm_1L_chr	Comparison variable name (a character vector of length one), Default: 'study_arm_chr'
cmprsn_group_match_val_chr	Comparison group match value (a character vector), Default: c("Intervention")
round_var_nm_1L_chr	Round variable name (a character vector of length one), Default: 'round'
timepoint_match_val_1L_chr	Timepoint match value (a character vector of length one), Default: 'Follow-up'
match_idx_var_nm_1L_chr	Match index variable name (a character vector of length one), Default: 'match_idx_int'
var_nms_chr	Variable names (a character vector)
fns_ls	Functions (a list)
abs_mean_diff_dbl	Absolute mean difference (a double vector)
diff_sd_dbl	Difference standard deviation (a double vector)
multiplier_dbl	Multiplier (a double vector)
min_dbl	Minimum (a double vector)
max_dbl	Maximum (a double vector)
integer_lgl	Integer (a logical vector)

Value

Updated dataset (a tibble)

add_qalys	<i>Add Quality Adjusted Life Years</i>
-----------	--

Description

add_qalys() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add quality adjusted life years. Function argument ds_tb specifies the object to be updated. The function returns Updated dataset (a tibble).

Usage

```
add_qalys(
  ds_tb,
  cmprsn_var_nm_1L_chr = "study_arm_chr",
  duration_var_nm_1L_chr = "duration_prd",
  id_var_nm_1L_chr = "fkClientID",
  match_idx_var_nm_1L_chr = "match_idx_int",
  msrmnt_date_var_nm_1L_chr = "date_dtm",
  qalys_var_nm_1L_chr = "qalys dbl",
  round_var_nm_1L_chr = "round",
  round_bl_val_1L_chr = "Baseline",
  utl_change_var_nm_1L_chr = "utl_change dbl",
  utl_var_nm_1L_chr = "utility dbl",
  reshape_1L_lgl = T
)
```

Arguments

ds_tb	Dataset (a tibble)
cmprsn_var_nm_1L_chr	Comparison variable name (a character vector of length one), Default: 'study_arm_chr'
duration_var_nm_1L_chr	Duration variable name (a character vector of length one), Default: 'duration_prd'
id_var_nm_1L_chr	Identity variable name (a character vector of length one), Default: 'fkClientID'
match_idx_var_nm_1L_chr	Match index variable name (a character vector of length one), Default: 'match_idx_int'
msrmnt_date_var_nm_1L_chr	Measurement date variable name (a character vector of length one), Default: 'date_dtm'
qalys_var_nm_1L_chr	Quality Adjusted Life Years variable name (a character vector of length one), Default: 'qalys dbl'
round_var_nm_1L_chr	Round variable name (a character vector of length one), Default: 'round'
round_bl_val_1L_chr	Round baseline value (a character vector of length one), Default: 'Baseline'
utl_change_var_nm_1L_chr	Utility change variable name (a character vector of length one), Default: 'utl_change dbl'

```
utl_var_nm_1L_chr
    Utility variable name (a character vector of length one), Default: 'utility_dbl'
reshape_1L_lgl Reshape (a logical vector of length one), Default: T
```

Value

Updated dataset (a tibble)

<i>add_qalys_to_ds</i>	<i>Add Quality Adjusted Life Years to dataset</i>
------------------------	---

Description

add_qalys_to_ds() is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add quality adjusted life years to dataset. Function argument *ds_tb* specifies the object to be updated. The function returns Dataset (a tibble).

Usage

```
add_qalys_to_ds(
  ds_tb,
  predn_ds_ls,
  include_predrs_1L_lgl = T,
  reshape_1L_lgl = T
)
```

Arguments

<i>ds_tb</i>	Dataset (a tibble)
<i>predn_ds_ls</i>	Prediction dataset (a list)
<i>include_predrs_1L_lgl</i>	Include predictors (a logical vector of length one), Default: T
<i>reshape_1L_lgl</i>	Reshape (a logical vector of length one), Default: T

Value

Dataset (a tibble)

add_utl_predn	<i>Add utility prediction</i>
---------------	-------------------------------

Description

`add_utl_predn()` is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add utility prediction. Function argument `data_tb` specifies the object to be updated. The function returns `Updated` (a tibble).

Usage

```
add_utl_predn(
  data_tb,
  predn_ds_ls,
  deterministic_1L_lgl = T,
  force_min_max_1L_lgl = T,
  key_1L_chr = NULL,
  make_from_tbl_1L_lgl = T,
  model_mdl = NULL,
  new_data_is_1L_chr = "Simulated",
  server_1L_chr = "dataverse.harvard.edu",
  utl_cls_fn = NULL
)
```

Arguments

<code>data_tb</code>	Data (a tibble)
<code>predn_ds_ls</code>	Prediction dataset (a list)
<code>deterministic_1L_lgl</code>	Deterministic (a logical vector of length one), Default: T
<code>force_min_max_1L_lgl</code>	Force minimum maximum (a logical vector of length one), Default: T
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL
<code>make_from_tbl_1L_lgl</code>	Make from table (a logical vector of length one), Default: T
<code>model_mdl</code>	Model (a model), Default: NULL
<code>new_data_is_1L_chr</code>	New data is (a character vector of length one), Default: 'Simulated'
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>utl_cls_fn</code>	Utility class (a function), Default: NULL

Value

Updated (a tibble)

fns_dmt_tb*youthu function documentation table*

Description

Meta-data on each youthu function used to create package documentation

Usage

fns_dmt_tb

Format

An object of class **tbl_df** (inherits from **tbl**, **data.frame**) with 39 rows and 10 columns.

Details

A tibble

fns_chr Functions (a character vector)

title_chr Title (a character vector)

desc_chr Description (a character vector)

details_chr Details (a character vector)

inc_for_main_user_lgl Include for main user (a logical vector)

output_chr Output (a character vector)

example_lgl Example (a logical vector)

args_ls Arguments (a list)

file_nm_chr File name (a character vector)

file_pfx_chr File prefix (a character vector)

Source

<https://ready4-dev.github.io/youthu/>

fn_type_lup_tb*Function type lookup table*

Description

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

Usage

fn_type_lup_tb

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 46 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://doi.org/10.7910/DVN/2Y9VF9>

get_dv_dss_mdl_smrys *Get dataverse datasets model summarys*

Description

`get_dv_dss_mdl_smrys()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get dataverse datasets model summaries. Function argument `ids_chr` specifies the where to look for the required object. The function returns Dataverse datasets model summarys (a list).

Usage

```
get_dv_dss_mdl_smrys(  
  ids_chr,  
  server_1L_chr = "dataverse.harvard.edu",  
  key_1L_chr = NULL  
)
```

Arguments

<code>ids_chr</code>	Identities (a character vector)
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL

Value

Dataverse datasets model summarys (a list)

`get_dv_ds_publication` *Get dataverse dataset publication*

Description

`get_dv_ds_publication()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get dataverse dataset publication. Function argument `ds_url_1L_chr` specifies the where to look for the required object. The function returns Doi url (a character vector of length one).

Usage

```
get_dv_ds_publication(
  ds_url_1L_chr,
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

<code>ds_url_1L_chr</code>	Dataset url (a character vector of length one)
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL

Value

Doi url (a character vector of length one)

`get_dv_mdl_smrys` *Get dataverse model summaries*

Description

`get_dv_mdl_smrys()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get dataverse model summaries. Function argument `mdl_s_lup` specifies the where to look for the required object. The function is called for its side effects and does not return a value.

Usage

```
get_dv_mdl_smrys(mdl_s_lup, mdl_nms_chr = NULL)
```

Arguments

<code>mdl_s_lup</code>	Models (a lookup table)
<code>mdl_nms_chr</code>	Model names (a character vector), Default: NULL

Value

Dataverse model (summarys)

`get_filtered_ttu_dss` *Get filtered ttu datasets*

Description

`get_filtered_ttu_dss()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get filtered ttu datasets. Function argument `ttu_dv_dss_tb` specifies the where to look for the required object. The function returns Ttu dataverse datasets (a tibble).

Usage

```
get_filtered_ttu_dss(
  ttu_dv_dss_tb = NULL,
  mdl_predrs_in_ds_chr = NULL,
  utility_type_chr = NULL,
  ttu_dv_nms_chr = "TTU",
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

<code>ttu_dv_dss_tb</code>	Ttu dataverse datasets (a tibble), Default: NULL
<code>mdl_predrs_in_ds_chr</code>	Model predictors in dataset (a character vector), Default: NULL
<code>utility_type_chr</code>	Utility type (a character vector), Default: NULL
<code>ttu_dv_nms_chr</code>	Ttu dataverse names (a character vector), Default: 'TTU'
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL

Value

Ttu dataverse datasets (a tibble)

`get_mdls_lup` *Get models*

Description

`get_mdls_lup()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get models lookup table. Function argument `ttu_dv_dss_tb` specifies the where to look for the required object. The function returns Models (a lookup table).

Usage

```
get_mdls_lup(
  ttu_dv_dss_tb = NULL,
  mdl_predrs_in_ds_chr = NULL,
  utility_type_chr = NULL,
  ttu_dv_nms_chr = "TTU",
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

ttu_dv_dss_tb	Ttu dataverse datasets (a tibble), Default: NULL
mdl_predrs_in_ds_chr	Model predictors in dataset (a character vector), Default: NULL
utility_type_chr	Utility type (a character vector), Default: NULL
ttu_dv_nms_chr	Ttu dataverse names (a character vector), Default: 'TTU'
server_1L_chr	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
key_1L_chr	Key (a character vector of length one), Default: NULL

Value

Models (a lookup table)

get_mdl_ctlg_url	<i>Get model ctlg url</i>
------------------	---------------------------

Description

get_mdl_ctlg_url() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get model ctlg url. Function argument mdls_lup specifies the where to look for the required object. The function is called for its side effects and does not return a value.

Usage

```
get_mdl_ctlg_url(
  mdls_lup,
  mdl_nm_1L_chr,
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

mdls_lup	Models (a lookup table)
mdl_nm_1L_chr	Model name (a character vector of length one)
server_1L_chr	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
key_1L_chr	Key (a character vector of length one), Default: NULL

Value

NA ()

get_mdl_ds_url *Get model dataset url*

Description

get_mdl_ds_url() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get model dataset url. Function argument mdls_lup specifies the where to look for the required object. The function is called for its side effects and does not return a value.

Usage

```
get_mdl_ds_url(mdls_lup, mdl_nm_1L_chr)
```

Arguments

mdls_lup	Models (a lookup table)
mdl_nm_1L_chr	Model name (a character vector of length one)

Value

NA ()

get_mdl_from_dv *Get model from dataverse*

Description

get_mdl_from_dv() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get model from dataverse. Function argument mdl_nm_1L_chr specifies the where to look for the required object. The function returns Model (a model).

Usage

```
get_mdl_from_dv(  
  mdl_nm_1L_chr,  
  dv_ds_nm_1L_chr = "https://doi.org/10.7910/DVN/JC6PTV",  
  server_1L_chr = "dataverse.harvard.edu",  
  key_1L_chr = NULL  
)
```

Arguments

mdl_nm_1L_chr Model name (a character vector of length one)
 dv_ds_nm_1L_chr Dataverse dataset name (a character vector of length one), Default: 'https://doi.org/10.7910/DVN/JC6'
 server_1L_chr Server (a character vector of length one), Default: 'dataverse.harvard.edu'
 key_1L_chr Key (a character vector of length one), Default: NULL

Value

Model (a model)

get_mdl_metadata *Get model metadata*

Description

`get_mdl_metadata()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get model metadata. Function argument `mdl_ls_lup` specifies the where to look for the required object. The function returns Ingredients (a list).

Usage

```
get_mdl_metadata(
  mdl_ls_lup,
  mdl_nm_1L_chr,
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

mdl_ls_lup Models (a lookup table)
 mdl_nm_1L_chr Model name (a character vector of length one)
 server_1L_chr Server (a character vector of length one), Default: 'dataverse.harvard.edu'
 key_1L_chr Key (a character vector of length one), Default: NULL

Value

Ingredients (a list)

get_mdl_smrys	<i>Get model summarys</i>
---------------	---------------------------

Description

get_mdl_smrys() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get model summarys. Function argument ingredients_ls specifies the where to look for the required object. The function returns Models summary (a list).

Usage

```
get_mdl_smrys(ingredients_ls, mdl_nms_chr = NULL)
```

Arguments

ingredients_ls	Ingredients (a list)
mdl_nms_chr	Model names (a character vector), Default: NULL

Value

Models summary (a list)

get_model	<i>Get model</i>
-----------	------------------

Description

get_model() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get model. Function argument mdls_lup specifies the where to look for the required object. The function returns Model (a model).

Usage

```
get_model(  
  mdls_lup,  
  mdl_nm_1L_chr,  
  make_from_tbl_1L_lgl = T,  
  mdl_meta_data_ls = NULL,  
  server_1L_chr = "dataverse.harvard.edu",  
  key_1L_chr = NULL  
)
```

Arguments

<code>mdls_lup</code>	Models (a lookup table)
<code>mdl_nm_1L_chr</code>	Model name (a character vector of length one)
<code>make_from_tbl_1L_lgl</code>	Make from table (a logical vector of length one), Default: T
<code>mdl_meta_data_ls</code>	Model meta data (a list), Default: NULL
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL

Value

Model (a model)

`get_predictors_lup` *Get predictors*

Description

`get_predictors_lup()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get predictors lookup table. Function argument `mdl_meta_data_ls` specifies the where to look for the required object. The function returns Predictors (a tibble).

Usage

```
get_predictors_lup(
  mdl_meta_data_ls = NULL,
  mdls_lup = NULL,
  mdl_nm_1L_chr = NULL,
  outp_is_abbrvs_tb = F,
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

<code>mdl_meta_data_ls</code>	Model meta data (a list), Default: NULL
<code>mdls_lup</code>	Models (a lookup table), Default: NULL
<code>mdl_nm_1L_chr</code>	Model name (a character vector of length one), Default: NULL
<code>outp_is_abbrvs_tb</code>	Output is abbrvs (a tibble), Default: F
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL

Value

Predictors (a tibble)

<code>get_tfmn_from_lup</code>	<i>Get transformation from</i>
--------------------------------	--------------------------------

Description

`get_tfmn_from_lup()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get transformation from lookup table. Function argument `mdl_nm_1L_chr` specifies the where to look for the required object. The function returns Transformation (a character vector of length one).

Usage

```
get_tfmn_from_lup(mdl_nm_1L_chr, mdls_lup = NULL)
```

Arguments

<code>mdl_nm_1L_chr</code>	Model name (a character vector of length one)
<code>mdls_lup</code>	Models (a lookup table), Default: NULL

Value

Transformation (a character vector of length one)

<code>get_ttu_ds_smrys</code>	<i>Get ttu dataset summaries</i>
-------------------------------	----------------------------------

Description

`get_ttu_ds_smrys()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get ttu dataset summaries. Function argument `ttu_dv_nm_1L_chr` specifies the where to look for the required object. The function returns Dataverse datasets model summaries (a list).

Usage

```
get_ttu_ds_smrys(
  ttu_dv_nm_1L_chr = "TTU",
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL,
  reference_int = NULL
)
```

Arguments

<code>ttu_dv_nm_1L_chr</code>	Ttu dataverse name (a character vector of length one), Default: 'TTU'
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL
<code>reference_int</code>	Reference (an integer vector), Default: NULL

Value

Dataverse datasets model summaries (a list)

<code>get_ttu_dv_dss</code>	<i>Get ttu dataverse datasets</i>
-----------------------------	-----------------------------------

Description

`get_ttu_dv_dss()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get ttu dataverse datasets. Function argument `ttu_dv_nms_chr` specifies the where to look for the required object. The function returns Ttu dataverse datasets (a tibble).

Usage

```
get_ttu_dv_dss(
  ttu_dv_nms_chr = "TTU",
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

<code>ttu_dv_nms_chr</code>	Ttu dataverse names (a character vector), Default: 'TTU'
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL

Value

Ttu dataverse datasets (a tibble)

<code>get_ttu_dv_predrs</code>	<i>Get ttu dataverse predictors</i>
--------------------------------	-------------------------------------

Description

`get_ttu_dv_predrs()` is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get ttu dataverse predictors. Function argument `ttu_dv_dss_tb` specifies the where to look for the required object. The function returns Predictors (a character vector).

Usage

```
get_ttu_dv_predrs(
  ttu_dv_dss_tb = NULL,
  ttu_dv_nms_chr = "TTU",
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

<code>ttu_dv_dss_tb</code>	Ttu dataverse datasets (a tibble), Default: NULL
<code>ttu_dv_nms_chr</code>	Ttu dataverse names (a character vector), Default: 'TTU'
<code>server_1L_chr</code>	Server (a character vector of length one), Default: 'dataverse.harvard.edu'
<code>key_1L_chr</code>	Key (a character vector of length one), Default: NULL

Value

Predictors (a character vector)

`make_balanced_fake_ds` *Make balanced fake dataset*

Description

`make_balanced_fake_ds()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make balanced fake dataset. The function returns Dataset (a tibble).

Usage

```
make_balanced_fake_ds(
  ds_tb,
  match_on_vars_chr,
  id_var_nm_1L_chr = "UID_chr",
  round_var_nm_1L_chr = "Timepoint_chr",
  timepoint_bl_val_1L_chr = "Baseline",
  cmprsn_var_nm_1L_chr = "study_arm_chr",
  cmprsn_groups_chr = c("Intervention", "Control")
)
```

Arguments

<code>ds_tb</code>	Dataset (a tibble)
<code>match_on_vars_chr</code>	Match on variables (a character vector)
<code>id_var_nm_1L_chr</code>	Identity variable name (a character vector of length one), Default: 'UID_chr'
<code>round_var_nm_1L_chr</code>	Round variable name (a character vector of length one), Default: 'Timepoint_chr'
<code>timepoint_bl_val_1L_chr</code>	Timepoint baseline value (a character vector of length one), Default: 'Baseline'
<code>cmprsn_var_nm_1L_chr</code>	Comparison variable name (a character vector of length one), Default: 'study_arm_chr'
<code>cmprsn_groups_chr</code>	Comparison groups (a character vector), Default: c("Intervention", "Control")

Value

Dataset (a tibble)

`make_costs_vec_from_gamma_dstr`

Make costs vector from gamma distribution

Description

`make_costs_vec_from_gamma_dstr()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make costs vector from gamma distribution. The function returns Costs (a double vector).

Usage

```
make_costs_vec_from_gamma_dstr(n_int, costs_mean_dbl, costs_sd_dbl)
```

Arguments

<code>n_int</code>	N (an integer vector)
<code>costs_mean_dbl</code>	Costs mean (a double vector)
<code>costs_sd_dbl</code>	Costs standard deviation (a double vector)

Value

Costs (a double vector)

`make_cst_efns_smry` *Make cost efns summary*

Description

`make_cst_efns_smry()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make cost efns summary. The function returns Summary (a double vector).

Usage

```
make_cst_efns_smry(
  ds_tb,
  idxs_int,
  change_types_chr = "dbl",
  benefits_pfx_1L_chr = "qalys_dbl",
  benefits_var_nm_1L_chr = "qalys",
  costs_pfx_1L_chr = "costs_dbl",
  costs_var_nm_1L_chr = "costs",
  change_sfx_1L_chr = "change",
  change_vars_chr = NA_character_,
  cmprsn_groups_chr = c("Intervention", "Control"),
  cmprsn_var_nm_1L_chr = "study_arm_chr",
  round_fup_val_1L_chr = "Follow-up"
)
```

Arguments

ds_tb	Dataset (a tibble)
idxs_int	Indices (an integer vector)
change_types_chr	Change types (a character vector), Default: 'dbl'
benefits_pfx_1L_chr	Benefits prefix (a character vector of length one), Default: 'qalys dbl'
benefits_var_nm_1L_chr	Benefits variable name (a character vector of length one), Default: 'qalys'
costs_pfx_1L_chr	Costs prefix (a character vector of length one), Default: 'costs dbl'
costs_var_nm_1L_chr	Costs variable name (a character vector of length one), Default: 'costs'
change_sfx_1L_chr	Change suffix (a character vector of length one), Default: 'change'
change_vars_chr	Change variables (a character vector), Default: 'NA'
cmprsn_groups_chr	Comparison groups (a character vector), Default: c("Intervention", "Control")
cmprsn_var_nm_1L_chr	Comparison variable name (a character vector of length one), Default: 'study_arm_chr'
round_fup_val_1L_chr	Round follow-up value (a character vector of length one), Default: 'Follow-up'

Value

Summary (a double vector)

make_fake_ds_one *Make fake dataset one*

Description

make_fake_ds_one() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make fake dataset one. The function returns Fake data (a tibble).

Usage

```
make_fake_ds_one()
```

Value

Fake data (a tibble)

<code>make_fake_ds_two</code>	<i>Make fake dataset two</i>
-------------------------------	------------------------------

Description

`make_fake_ds_two()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make fake dataset two. The function returns Matched dataset (a tibble).

Usage

```
make_fake_ds_two()
```

Value

Matched dataset (a tibble)

<code>make_fake_trial_ds</code>	<i>Make fake trial dataset</i>
---------------------------------	--------------------------------

Description

`make_fake_trial_ds()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make fake trial dataset. The function returns Updated dataset (a tibble).

Usage

```
make_fake_trial_ds(
  ds_tb,
  id_var_nm_1L_chr = "fkClientID",
  round_var_nm_1L_chr = "round",
  round_lvls_chr = c("Baseline", "Follow-up"),
  match_on_vars_chr,
  cmprsn_var_nm_1L_chr = "study_arm_chr",
  cmprsn_groups_chr = c("Intervention", "Control"),
  fns_ls,
  var_nms_chr,
  abs_mean_diff_dbl,
  diff_sd_dbl,
  multiplier_dbl,
  min_dbl,
  max_dbl,
  integer_lgl,
  match_idx_var_nm_1L_chr = "match_idx_int"
)
```

Arguments

ds_tb Dataset (a tibble)
 id_var_nm_1L_chr Identity variable name (a character vector of length one), Default: 'fkClientID'
 round_var_nm_1L_chr Round variable name (a character vector of length one), Default: 'round'
 round_lvls_chr Round levels (a character vector), Default: c("Baseline", "Follow-up")
 match_on_vars_chr Match on variables (a character vector)
 cmprsn_var_nm_1L_chr Comparison variable name (a character vector of length one), Default: 'study_arm_chr'
 cmprsn_groups_chr Comparison groups (a character vector), Default: c("Intervention", "Control")
 fns_ls Functions (a list)
 var_nms_chr Variable names (a character vector)
 abs_mean_diff_dbl Absolute mean difference (a double vector)
 diff_sd_dbl Difference standard deviation (a double vector)
 multiplier_dbl Multiplier (a double vector)
 min_dbl Minimum (a double vector)
 max_dbl Maximum (a double vector)
 integer_lgl Integer (a logical vector)
 match_idx_var_nm_1L_chr Match index variable name (a character vector of length one), Default: 'match_idx_int'

Value

Updated dataset (a tibble)

make_hlth_ec_smry *Make health economic summary*

Description

`make_hlth_ec_smry()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make health economic summary. The function returns He summary (a list).

Usage

```
make_hlth_ec_smry(  
  ds_tb,  
  predn_ds_ls,  
  wtp_dbl = 50000,  
  bootstrap_iters_1L_int = 1000,  
  benefits_pfx_1L_chr = "qalys_dbl",  
  benefits_var_nm_1L_chr = "qalys",  
  costs_var_nm_1L_chr = "costs",  
  change_sfx_1L_chr = "change"  
)
```

Arguments

<code>ds_tb</code>	Dataset (a tibble)
<code>predn_ds_ls</code>	Prediction dataset (a list)
<code>wtp_dbl</code>	Willingness to pay (a double vector), Default: 50000
<code>bootstrap_iters_1L_int</code>	Bootstrap iterations (an integer vector of length one), Default: 1000
<code>benefits_pfx_1L_chr</code>	Benefits prefix (a character vector of length one), Default: 'qalys_dbl'
<code>benefits_var_nm_1L_chr</code>	Benefits variable name (a character vector of length one), Default: 'qalys'
<code>costs_var_nm_1L_chr</code>	Costs variable name (a character vector of length one), Default: 'costs'
<code>change_sfx_1L_chr</code>	Change suffix (a character vector of length one), Default: 'change'

Value

He summary (a list)

`make_matched_ds` *Make matched dataset*

Description

`make_matched_ds()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make matched dataset. The function returns Matched dataset (a tibble).

Usage

```
make_matched_ds(sngl_grp_ds_tb, cmprsn_smry_tb, ds_smry_ls)
```

Arguments

<code>sngl_grp_ds_tb</code>	Single group dataset (a tibble)
<code>cmprsn_smry_tb</code>	Comparison summary (a tibble)
<code>ds_smry_ls</code>	Dataset summary (a list)

Value

Matched dataset (a tibble)

make_matched_ds_spine *Make matched dataset spine*

Description

make_matched_ds_spine() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make matched dataset spine. The function returns Matched dataset (a tibble).

Usage

```
make_matched_ds_spine(  
  ds_tb,  
  round_var_nm_1L_chr = "Timepoint_chr",  
  timepoint_bl_val_1L_chr = "Baseline",  
  cmprsn_var_nm_1L_chr = "study_arm_chr",  
  active_arm_val_1L_chr = "Intervention",  
  id_var_nm_1L_chr = "fkClientID",  
  match_on_vars_chr  
)
```

Arguments

ds_tb Dataset (a tibble)
round_var_nm_1L_chr Round variable name (a character vector of length one), Default: 'Timepoint_chr'
timepoint_bl_val_1L_chr Timepoint baseline value (a character vector of length one), Default: 'Baseline'
cmprsn_var_nm_1L_chr Comparison variable name (a character vector of length one), Default: 'study_arm_chr'
active_arm_val_1L_chr Active arm value (a character vector of length one), Default: 'Intervention'
id_var_nm_1L_chr Identity variable name (a character vector of length one), Default: 'fkClientID'
match_on_vars_chr Match on variables (a character vector)

Value

Matched dataset (a tibble)

`make_predn_metadata_ls`
Make prediction metadata

Description

`make_predn_metadata_ls()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make prediction metadata list. The function returns Prediction metadata (a list).

Usage

```
make_predn_metadata_ls(
  data_tb,
  cmprsn_groups_chr = NULL,
  cmprsn_var_nm_1L_chr = NULL,
  costs_var_nm_1L_chr = NULL,
  id_var_nm_1L_chr = "UID",
  mdl_meta_data_ls = NULL,
  mdls_lup = NULL,
  mdl_nm_1L_chr = NULL,
  msrmnt_date_var_nm_1L_chr = NULL,
  predr_vars_nms_chr = NULL,
  round_var_nm_1L_chr,
  round_b1_val_1L_chr,
  utl_var_nm_1L_chr = "AQoL6D_HU",
  server_1L_chr = "dataverse.harvard.edu",
  key_1L_chr = NULL
)
```

Arguments

<code>data_tb</code>	Data (a tibble)
<code>cmprsn_groups_chr</code>	Comparison groups (a character vector), Default: NULL
<code>cmprsn_var_nm_1L_chr</code>	Comparison variable name (a character vector of length one), Default: NULL
<code>costs_var_nm_1L_chr</code>	Costs variable name (a character vector of length one), Default: NULL
<code>id_var_nm_1L_chr</code>	Identity variable name (a character vector of length one), Default: 'UID'
<code>mdl_meta_data_ls</code>	Model meta data (a list), Default: NULL
<code>mdls_lup</code>	Models (a lookup table), Default: NULL
<code>mdl_nm_1L_chr</code>	Model name (a character vector of length one), Default: NULL
<code>msrmnt_date_var_nm_1L_chr</code>	Measurement date variable name (a character vector of length one), Default: NULL

```
predr_vars_nms_chr  
Predictor variables names (a character vector), Default: NULL  
round_var_nm_1L_chr  
Round variable name (a character vector of length one)  
round_b1_val_1L_chr  
Round baseline value (a character vector of length one)  
utl_var_nm_1L_chr  
Utility variable name (a character vector of length one), Default: 'AQoL6D_HU'  
server_1L_chr Server (a character vector of length one), Default: 'dataverse.harvard.edu'  
key_1L_chr Key (a character vector of length one), Default: NULL
```

Value

Prediction metadata (a list)

make_sngl_grp_ds *Make single group dataset*

Description

make_sngl_grp_ds() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make single group dataset. The function returns Single group dataset (a tibble).

Usage

```
make_sngl_grp_ds(seed_ds_tb = NULL, ds_smry_ls)
```

Arguments

```
seed_ds_tb      Seed dataset (a tibble), Default: NULL  
ds_smry_ls      Dataset summary (a list)
```

Value

Single group dataset (a tibble)

predict_from_mdl_coefs*Predict from model coefficients***Description**

`predict_from_mdl_coefs()` is a Predict function that makes predictions from data using a specified statistical model. Specifically, this function implements an algorithm to predict from model coefficients. The function returns `Pred` (a double vector).

Usage

```
predict_from_mdl_coefs(smry_of_mdl_tb, new_data_tb)
```

Arguments

<code>smry_of_mdl_tb</code>	Summary of model (a tibble)
<code>new_data_tb</code>	New data (a tibble)

Value

`Pred` (a double vector)

transform_ds_for_cmprsn*Transform dataset for comparison***Description**

`transform_ds_for_cmprsn()` is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform dataset for comparison. Function argument `ds_tb` specifies the object to be updated. Argument `cmprsn_var_nm_1L_chr` provides the object to be updated. The function returns `Dataset` (a tibble).

Usage

```
transform_ds_for_cmprsn(
  ds_tb,
  cmprsn_var_nm_1L_chr,
  id_var_nm_1L_chr = "UID_chr",
  round_var_nm_1L_chr = "Timepoint_chr",
  cmprsn_groups_chr = c("Intervention", "Control")
)
```

Arguments

ds_tb Dataset (a tibble)
 cmprsn_var_nm_1L_chr
 Comparison variable name (a character vector of length one)
 id_var_nm_1L_chr
 Identity variable name (a character vector of length one), Default: 'UID_chr'
 round_var_nm_1L_chr
 Round variable name (a character vector of length one), Default: 'Timepoint_chr'
 cmprsn_groups_chr
 Comparison groups (a character vector), Default: c("Intervention", "Control")

Value

Dataset (a tibble)

`update_col_with_diff` *Update column with difference*

Description

`update_col_with_diff()` is an Update function that edits an object, while preserving core object attributes. Specifically, this function implements an algorithm to update column with difference. Function argument `ds_tb` specifies the object to be updated. Argument `var_nm_1L_chr` provides the object to be updated. The function is called for its side effects and does not return a value.

Usage

```
update_col_with_diff(
  ds_tb,
  var_nm_1L_chr,
  fn,
  abs_mean_diff_1L_dbl,
  diff_sd_1L_dbl,
  multiplier_1L_dbl,
  min_1L_dbl,
  max_1L_dbl,
  integer_1L_lgl
)
```

Arguments

ds_tb Dataset (a tibble)
 var_nm_1L_chr Variable name (a character vector of length one)
 fn Function (a function)
 abs_mean_diff_1L_dbl
 Absolute mean difference (a double vector of length one)
 diff_sd_1L_dbl Difference standard deviation (a double vector of length one)
 multiplier_1L_dbl
 Multiplier (a double vector of length one)

<code>min_1L_dbl</code>	Minimum (a double vector of length one)
<code>max_1L_dbl</code>	Maximum (a double vector of length one)
<code>integer_1L_lgl</code>	Integer (a logical vector of length one)

Value

New (a dataset)

`update_multpl_cols_with_diffs`

Update multiplier columns with differences

Description

`update_multpl_cols_with_diffs()` is an Update function that edits an object, while preserving core object attributes. Specifically, this function implements an algorithm to update multiplier columns with differences. Function argument `ds_tb` specifies the object to be updated. Argument `var_nms_chr` provides the object to be updated. The function returns Updated dataset (a tibble).

Usage

```
update_multpl_cols_with_diffs(
  ds_tb,
  var_nms_chr,
  fns_ls,
  abs_mean_diff_dbl,
  diff_sd_dbl,
  multiplier_dbl,
  min_dbl,
  max_dbl,
  integer_lgl
)
```

Arguments

<code>ds_tb</code>	Dataset (a tibble)
<code>var_nms_chr</code>	Variable names (a character vector)
<code>fns_ls</code>	Functions (a list)
<code>abs_mean_diff_dbl</code>	Absolute mean difference (a double vector)
<code>diff_sd_dbl</code>	Difference standard deviation (a double vector)
<code>multiplier_dbl</code>	Multiplier (a double vector)
<code>min_dbl</code>	Minimum (a double vector)
<code>max_dbl</code>	Maximum (a double vector)
<code>integer_lgl</code>	Integer (a logical vector)

Value

Updated dataset (a tibble)

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