

Package ‘pmxcode’

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Title Create Pharmacometric Models

Version 0.2.0

Description Provides a user interface to create or modify pharmacometric models for various modeling and simulation software platforms.

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align_annotations *Auto indent mrgsolve code*

Description

Auto indent mrgsolve code

Usage

`align_annotations(code)`

Arguments

code Code lines containing comments to align across

align_tags *Auto indent NONMEM code tags*

Description

Auto indent NONMEM code tags

Usage

`align_tags(code)`

Arguments

code Code lines containing comments to align across

areTruthy *Multi-argument version of isTruthy*

Description

See shiny::isTruthy for details.

Usage

```
areTruthy(...)
```

Arguments

... Any object

Value

TRUE if all objects are "truthy", FALSE if at least one is not.

check_covariate_table *Check covariate definition table*

Description

Check covariate definition table

Usage

```
check_covariate_table(table = NULL, check_step = FALSE)
```

Arguments

table a data.frame with expected columns
check_step a logical indicator to check content of Step column or not

`check_incomplete_covariate_table`

Check if covariate definition table contains rows with incomplete data

Description

Check if covariate definition table contains rows with incomplete data

Usage

`check_incomplete_covariate_table(table)`

Arguments

`table` a data.frame with expected columns

`convert_reference_code`

Convert reference code for univariate model creation

Description

Convert reference code for univariate model creation

Usage

`convert_reference_code(code)`

Arguments

`code` A character string containing NONMEM code

```
create_univariate_models
```

Generate univariate model code

Description

Generate univariate model code

Usage

```
create_univariate_models(  
  code,  
  referenceName,  
  nThetas,  
  table,  
  style,  
  prefix,  
  startNumber,  
  path  
)
```

Arguments

code	A character string containing the code of the reference NONMEM model
referenceName	The name of the reference model file
nThetas	The number of THETA parameters in the reference NONMEM model
table	The table of covariate relationship definition
style	Either PsN or standard
prefix	If standard style, the prefix to start the name of the univariable model file with
startNumber	If PsN style, the number to start univariate model run files
path	The directory in which the univariate models will be saved and run

```
file_exists
```

Determines if a file path exists

Description

Determines if a file path exists

Usage

```
file_exists(file)
```

Arguments

file	a path to a file
------	------------------

get_code	<i>Creation of model code</i>
----------	-------------------------------

Description

Creation of model code

Usage

```
get_code(
  input = NULL,
  template = NULL,
  vars,
  advan,
  trans,
  isPRED,
  isODE,
  isLINMAT,
  isPREDPP,
  varianceTable,
  covarianceBlock,
  rvTable,
  parm_lib,
  model_lib,
  rv_lib,
  scaling,
  replacement = TRUE
)
```

Arguments

input	Internal parameter for shiny
template	Text template
vars	Reactive object - List of variables in data file
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isPRED	Reactive object - is model coded with \$PRED?
isODE	Reactive object - is model coded with ODEs?
isLINMAT	Reactive object - is model coded as linear matrix?
isPREDPP	Reactive object - is mode coded with \$PK?
varianceTable	Variance- table
covarianceBlock	Variance-covariance matrix
rvTable	Reactive object - residual variability matrix

parm_lib	Library of parameters
model_lib	Library for \$MODEL replacement
rv_lib	Library for residual variability replacement
scaling	Library for scaling
replacement	Logical value indicating with replacement is required

get_correlation_table *Convert of covariance matrix into a 0/1 correlation map table*

Description

Convert of covariance matrix into a 0/1 correlation map table

Usage

```
get_correlation_table(x, na_zero = FALSE)
```

Arguments

x	A covariance matrix
na_zero	Logical indicating whether NA should be replaced by 0's

Value

A matrix of 0 and 1

get_derived_parms_code
Get lines of code for derived parameters

Description

Get lines of code for derived parameters

Usage

```
get_derived_parms_code(
  input,
  advan,
  trans,
  isPRED,
  isODE,
  isLINMAT,
  parms,
  parm_lib
)
```


Arguments

input	Internal parameter for shiny
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isPRED	Reactive object - is model coded with \$PRED?
isODE	Reactive object - is model coded with ODEs?
isLINMAT	Reactive object - is model coded as linear matrix?
parms	Parameter selection
parm_lib	Library of parameters

`get_individual_parm_code`

Get line of code for individual parameter value

Description

Get line of code for individual parameter value

Usage

`get_individual_parm_code(parms, varianceTable, iparm, ieta, mu)`

Arguments

parms	Parameter selection
varianceTable	Variability selection
iparm	Index of parameter in parms data frame
ieta	Index of ETA associated with parameter
mu	A logical indicator for mu transformation

get_init_code *Get compartment initialization block*

Description

Get compartment initialization block

Usage

```
get_init_code(input, advan, trans, nPKcmts, nPDcmts, parm_lib)
```

Arguments

input	Internal parameter for shiny
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
nPKcmts, nPDcmts	Number of compartments for PK and PD model components
parm_lib	Library of parameters

get_mrgsolve_code *Creation of mrgsolve code*

Description

Creation of mrgsolve code

Usage

```
get_mrgsolve_code(
  input = NULL,
  template = NULL,
  advan,
  trans,
  isPRED,
  isODE,
  isLINMAT,
  isPREDPP,
  varianceTable,
  covarianceBlock,
  rvTable,
  parm_lib,
  model_lib,
  rv_lib,
  scaling,
  replacement = TRUE
)
```

Arguments

input	Internal parameter for shiny
template	Text template
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isPRED	Reactive object - is model coded with \$PRED?
isODE	Reactive object - is model coded with ODEs?
isLINMAT	Reactive object - is model coded as linear matrix?
isPREDPP	Reactive object - is mode coded with \$PK?
varianceTable	Variance- table
covarianceBlock	Variance-covariance matrix
rvTable	Reactive object - residual variability matrix
parm_lib	Library of parameters
model_lib	Library for \$MODEL replacement
rv_lib	Library for residual variability replacement
scaling	Library for scaling
replacement	Logical value indicating with replacement is required

get_mrg_parms_code *Get mrgsolve model parameter code lines as list*

Description

Get mrgsolve model parameter code lines as list

Usage

```
get_mrg_parms_code(input, parms, mu, posthoc)
```

Arguments

input	Internal parameter for shiny
parms	Parameter selection
mu	A logical indicator for mu transformation
posthoc	A logical indicating whether posthoc estimates should be used

```
get_mrg_parms_code_minion
```

Get line of code for each parameter

Description

Get line of code for each parameter

Usage

```
get_mrg_parms_code_minion(parms, iparm, eparm)
```

Arguments

parms	Parameter selection
iparm	Index of parameter in parms data frame
eparms	Parameter associated with IIV in ordered categorical models

```
get_ncmts
```

Get the number of PK and PD compartments

Description

Get the number of PK and PD compartments

Usage

```
get_ncmts(input, new, model_lib, isPRED, isPREDPP)
```

Arguments

input	Internal parameter for shiny
new	Text template
model_lib	Library for \$MODEL replacement
isPRED	Reactive object - is model coded with \$PRED?
isPREDPP	Reactive object - is mode coded with \$PK?

get_nonmem_blocks	<i>Get NONMEM code blocks</i>
-------------------	-------------------------------

Description

Process a character string containing NONMEM model code and returns a character vector in which each element contain a particular \$ block

Usage

```
get_nonmem_blocks(code)
```

Arguments

code	A character string containing the control stream
------	--

get_nonmem_code	<i>Creation of NONMEM code</i>
-----------------	--------------------------------

Description

Creation of NONMEM code

Usage

```
get_nonmem_code(  
  input = NULL,  
  template = NULL,  
  vars,  
  advan,  
  trans,  
  isPRED,  
  isODE,  
  isLINMAT,  
  isPREDPP,  
  varianceTable,  
  covarianceBlock,  
  rvTable,  
  parm_lib,  
  model_lib,  
  rv_lib,  
  scaling,  
  replacement = TRUE  
)
```

Arguments

input	Internal parameter for shiny
template	Text template
vars	Reactive object - List of variables in data file
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isPRED	Reactive object - is model coded with \$PRED?
isODE	Reactive object - is model coded with ODEs?
isLINMAT	Reactive object - is model coded as linear matrix?
isPREDPP	Reactive object - is mode coded with \$PK?
varianceTable	Variance- table
covarianceBlock	Variance-covariance matrix
rvTable	Reactive object - residual variability matrix
parm_lib	Library of parameters
model_lib	Library for \$MODEL replacement
rv_lib	Library for residual variability replacement
scaling	Library for scaling
replacement	Logical value indicating with replacement is required

 get_parms_code

Get NONMEM model parameter code lines as list

Description

Get NONMEM model parameter code lines as list

Usage

```
get_parms_code(input, parms, varianceTable, mu)
```

Arguments

input	Internal parameter for shiny
parms	Parameter selection
varianceTable	Variability selection
mu	A logical indicator for mu transformation

get_preamble_code	<i>Get lines of preamble code for transit compartment absorption model and delayed dosing records</i>
-------------------	---

Description

Get lines of preamble code for transit compartment absorption model and delayed dosing records

Usage

```
get_preamble_code(input, parms, vars)
```

Arguments

input	Internal parameter for shiny
parms	Parameter selection
vars	Character vector of variable names

get_scaling_code	<i>Get code lines for scaling and bioavailability</i>
------------------	---

Description

Get code lines for scaling and bioavailability

Usage

```
get_scaling_code(input, advan, trans, parm_lib, scaling)
```

Arguments

input	Internal parameter for shiny
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
parm_lib	Library of parameters
scaling	Library for scaling

get_theta_number	<i>Get number of THETA parameters</i>
------------------	---------------------------------------

Description

Get number of THETA parameters

Usage

```
get_theta_number(code)
```

Arguments

code	A character string containing the control stream
------	--

hot_to_r_raw	<i>Convert covariate handsontable data to R data.frame without factor</i>
--------------	---

Description

Convert covariate handsontable data to R data.frame without factor

Usage

```
hot_to_r_raw(...)
```

Arguments

...	passed to rhandsontable::hot_to_r
-----	-----------------------------------

is_EDB	<i>Determine if a square matrix is of type block, band or error</i>
--------	---

Description

Determine if a square matrix is of type block, band or error

Usage

```
is_EDB(x)
```

Arguments

x	A square matrix
---	-----------------

Value

Either "error", "band", or "block"

new_model_server	<i>New model module</i>
------------------	-------------------------

Description

New model module

Usage

```
new_model_server(session, input, output, resources)
```

Arguments

input, output, session	Internal parameters for shiny.
resources	A list of internal resources

notTruthy	<i>Opposite of areTruthy</i>
-----------	------------------------------

Description

Opposite of areTruthy

Usage

```
notTruthy(...)
```

Arguments

...	Any object
-----	------------

Value

TRUE if at least one object is not "truthy", FALSE if all are.

replace_abbreviated *Replacement of @ABBREVIATED tag*

Description

Replacement of @ABBREVIATED tag

Usage

```
replace_abbreviated(input, new, vars)
```

Arguments

input	Internal parameter for shiny
new	Text template
vars	Character vector of variable names

replace_data *Replacement of @DATA tag*

Description

Replacement of @DATA tag

Usage

```
replace_data(input, new)
```

Arguments

input	Internal parameter for shiny
new	Text template

replace_des	<i>Replace @DES tag</i>
-------------	-------------------------

Description

Replace @DES tag

Usage

```
replace_des(input, new, advan, trans, isODE, vars, nPKcmts, nPDcmts, parm_lib)
```

Arguments

input	Internal parameter for shiny
new	Text template
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isODE	Reactive object - is model coded with ODEs?
vars	Reactive object - List of variables in data file
nPKcmts	Number of PK compartments in the model
nPDcmts	Number of PD compartments in the model
parm_lib	Library of parameters

replace_error	<i>Replace @ERROR tag</i>
---------------	---------------------------

Description

Replace @ERROR tag

Usage

```
replace_error(
  input,
  new,
  advan,
  trans,
  isPRED,
  nPKcmts,
  nPDcmts,
  parm_lib,
  rv_lib
)
```

Arguments

input	Internal parameter for shiny
new	Text template
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isPRED	Reactive object - is model coded with \$PRED?
nPKcmts	Number of PK compartments in the model
nPDcmts	Number of PD compartments in the model
parm_lib	Library of parameters
rv_lib	Library for residual variability replacement

replace_input	<i>Replacement of @INPUT tag</i>
---------------	----------------------------------

Description

Replacement of @INPUT tag

Usage

```
replace_input(input, new, vars)
```

Arguments

input	Internal parameter for shiny
new	Text template
vars	Character vector of variable names

replace_model	<i>Replace @MODEL tag</i>
---------------	---------------------------

Description

Replace @MODEL tag

Usage

```
replace_model(input, new, model_lib, isPRED, isPREDPP)
```

Arguments

input	Internal parameter for shiny
new	Text template
model_lib	Library for \$MODEL replacement
isPRED	Reactive object - is model coded with \$PRED?
isPREDPP	Reactive object - is mode coded with \$PK?

replace_mrg_capture *Replacement of @CAPTURE tag*

Description

Replacement of @CAPTURE tag

Usage

```
replace_mrg_capture(input, new, parms)
```

Arguments

input	Internal parameter for shiny
new	Text template
parms	Parameter selection

replace_mrg_cmt *Replacement of @CMT tag*

Description

Replacement of @CMT tag

Usage

```
replace_mrg_cmt(input, new, model_lib, isPRED)
```

Arguments

input	Internal parameter for shiny
new	Text template
model_lib	Library for \$MODEL replacement
isPRED	Reactive object - is model coded with \$PRED?

replace_mrg_global *Replacement of @GLOBAL tag*

Description

Replacement of @GLOBAL tag

Usage

```
replace_mrg_global(input, new, advan, trans, nPKcmts, parm_lib)
```

Arguments

input	Internal parameter for shiny
new	Text template
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
nPKcmts	Number of compartments for PK
parm_lib	Library of parameters

replace_mrg_main_pred *Replace @MAIN or @PRED tags*

Description

Replace @MAIN or @PRED tags

Usage

```
replace_mrg_main_pred(
  input,
  new,
  preamble_code,
  parms_code,
  derived_parms_code,
  scaling_code,
  init_code,
  isPRED,
  parms,
  parm_lib,
  rv_lib
)
```

Arguments

input	Internal parameter for shiny
new	Text template
preamble_code	Preamble code
parms_code	Typical and individual parameter code
derived_parms_code	Derived parameter code
scaling_code	Dose scaling and bioavailability code
init_code	Compartment initialization code
isPRED	Reactive object - is model coded with \$PRED?
parms	Parameter selection
parm_lib	Library of parameters
rv_lib	Library for residual variability replacement

replace_mrg_ode	<i>Replacement of @ODE tag</i>
-----------------	--------------------------------

Description

Replacement of @ODE tag

Usage

```
replace_mrg_ode(input, new, advan, trans, isODE, nPKcmts, nPDcmts, parm_lib)
```

Arguments

input	Internal parameter for shiny
new	Text template
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isODE	Reactive object - is model coded with ODEs?
nPKcmts	Number of PK compartments in the model
nPDcmts	Number of PD compartments in the model
parm_lib	Library of parameters

replace_mrg_omega *Replacement of @OMEGA tag*

Description

Replacement of @OMEGA tag

Usage

```
replace_mrg_omega(input, new, parms, blocks, nmextImport, posthoc)
```

Arguments

input	Internal parameter for shiny
new	Text template
parms	Parameter selection
blocks	Variance - covariance matrix
nmextImport	A logical indicating whether NONMEM ext file content should be imported
posthoc	A logical indicating whether posthoc estimates should be used

replace_mrg_param *Replacement of @PARAM tag*

Description

Replacement of @PARAM tag

Usage

```
replace_mrg_param(input, new, parms, nmextImport, posthoc)
```

Arguments

input	Internal parameter for shiny
new	Text template
parms	Parameter selection
nmextImport	A logical indicating whether NONMEM ext file content should be imported
posthoc	A logical indicating whether posthoc estimates should be used

replace_mrg_plugin *Replacement of @PLUGIN tag*

Description

Replacement of @PLUGIN tag

Usage

```
replace_mrg_plugin(input, new)
```

Arguments

input	Internal parameter for shiny
new	Text template

replace_mrg_sigma *Replacement of @SIGMA tag*

Description

Replacement of @SIGMA tag

Usage

```
replace_mrg_sigma(input, new, rvTable, nmextImport)
```

Arguments

input	Internal parameter for shiny
new	Text template
rvTable	Residual variability selection
nmextImport	A logical indicating whether NONMEM ext file content should be imported

replace_mrg_table *Replacement of @TABLE tag*

Description

Replacement of @TABLE tag

Usage

```
replace_mrg_table(
  input,
  new,
  advan,
  trans,
  isPRED,
  nPKcmts,
  nPDcmts,
  parm_lib,
  rv_lib
)
```

Arguments

input	Internal parameter for shiny
new	Text template
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isPRED	Reactive object - is model coded with \$PRED?
nPKcmts	Number of PK compartments in the model
nPDcmts	Number of PD compartments in the model
parm_lib	Library of parameters
rv_lib	Library for residual variability replacement

replace_nmext *Replacement of @NMEXT tag*

Description

Replacement of @NMEXT tag

Usage

```
replace_nmext(input, new, nmextImport = FALSE)
```

Arguments

input	Internal parameter for shiny
new	Text template
nmextImport	A logical indicating whether NONMEM ext file content should be imported

replace_omega	<i>Replacement of @OMEGA tag</i>
---------------	----------------------------------

Description

Replacement of @OMEGA tag

Usage

```
replace_omega(new, parms, varianceTable, blocks)
```

Arguments

new	Text template
parms	Parameter selection
varianceTable	Variability selection
blocks	Variance - covariance matrix

replace_path	<i>Replacement of @PATH tag</i>
--------------	---------------------------------

Description

Replacement of @PATH tag

Usage

```
replace_path(input, new)
```

Arguments

input	Internal parameter for shiny.
new	Text template

replace_pk_pred	<i>Replace @PK and @PRED tags</i>
-----------------	-----------------------------------

Description

Replace @PK and @PRED tags

Usage

```
replace_pk_pred(
  input,
  new,
  preamble_code,
  parms_code,
  derived_parms_code,
  scaling_code,
  init_code,
  isPRED,
  parms,
  varianceTable,
  parm_lib,
  rv_lib,
  mu
)
```

Arguments

input	Internal parameter for shiny
new	Text template
preamble_code	Preamble code
parms_code	Typical and individual parameter code
derived_parms_code	Derived parameter code
scaling_code	Dose scaling and bioavailability code
init_code	Compartment initialization code
isPRED	Reactive object - is model coded with \$PRED?
parms	Parameter selection
varianceTable	Variability selection
parm_lib	Library of parameters
rv_lib	Library for residual variability replacement
mu	A logical indicator for mu transformation

replace_prior	<i>Replacement of @PRIOR tag</i>
---------------	----------------------------------

Description

Replacement of @PRIOR tag

Usage

```
replace_prior(input, new, parms, varianceTable, estimations)
```

Arguments

input	Internal parameter for shiny
new	Text template
parms	Parameter selection
varianceTable	Variability selection
estimations	Table of estimation tasks

replace_problem	<i>Replacement of @PROB1 and @PROB2 tags</i>
-----------------	--

Description

Replacement of @PROB1 and @PROB2 tags

Usage

```
replace_problem(input, new)
```

Arguments

input	Internal parameter for shiny
new	Text template

replace_purpose	<i>Replacement of @PURPOSE tag</i>
-----------------	------------------------------------

Description

Replacement of @PURPOSE tag

Usage

```
replace_purpose(input, new, varianceTable)
```

Arguments

input	Internal parameter for shiny.
new	Text template
varianceTable	Variance- table

replace_sigma	<i>Replacement of @SIGMA tag</i>
---------------	----------------------------------

Description

Replacement of @SIGMA tag

Usage

```
replace_sigma(new, input, rvTable)
```

Arguments

new	Text template
input	Internal parameter for shiny
rvTable	Residual variability selection

replace_subroutine	<i>Replacement of @SUBROUTINE tag</i>
--------------------	---------------------------------------

Description

Replacement of @SUBROUTINE tag

Usage

```
replace_subroutine(input, new, advan, trans, isPRED, isODE, isLINMAT)
```

Arguments

input	Internal parameter for shiny
new	Text template
advan	Reactive object - NONMEM ADVAN value
trans	Reactive object - NONMEM TRANS value
isPRED	Reactive object - is model coded with \$PRED?
isODE	Reactive object - is model coded with ODEs?
isLINMAT	Reactive object - is model coded as linear matrix?

replace_table	<i>Replace @TABLE tag</i>
---------------	---------------------------

Description

Replace @TABLE tag

Usage

```
replace_table(input, new, vars)
```

Arguments

input	Internal parameter for shiny
new	Text template
vars	Reactive object - List of variables in data file

replace_tags	<i>Replace \$TAGs tag</i>
--------------	---------------------------

Description

Replace \$TAGs tag

Usage

```
replace_tags(input, new)
```

Arguments

input	Internal parameter for shiny
new	Text template

replace_task	<i>Replace @TASK tag</i>
--------------	--------------------------

Description

Replace @TASK tag

Usage

```
replace_task(input, new, estimations, isODE)
```

Arguments

input	Internal parameter for shiny
new	Text template
estimations	Table of estimation tasks
isODE	Reactive object - is model coded with ODEs?

replace_theta	<i>Replacement of @THETA tag</i>
---------------	----------------------------------

Description

Replacement of @THETA tag

Usage

```
replace_theta(new, parms)
```

Arguments

new	Text template
parms	Parameter selection

resources	<i>Load resource files</i>
-----------	----------------------------

Description

Load resource files

Usage

```
resources()
```

run_app	<i>Run the Shiny Application</i>
---------	----------------------------------

Description

Run the Shiny Application

Usage

```
run_app(
  onStart = NULL,
  options = list(launch.browser = TRUE),
  enableBookmarking = NULL,
  uiPattern = "/",
  ...
)
```

Arguments

onStart	A function that will be called before the app is actually run. This is only needed for shinyAppObj, since in the shinyAppDir case, a global.R file can be used for this purpose.
options	Named options that should be passed to the runApp call (these can be any of the following: "port", "launch.browser", "host", "quiet", "display.mode" and "test.mode"). You can also specify width and height parameters which provide a hint to the embedding environment about the ideal height/width for the app.
enableBookmarking	Can be one of "url", "server", or "disable". The default value, NULL, will respect the setting from any previous calls to enableBookmarking() . See enableBookmarking() for more information on bookmarking your app.
uiPattern	A regular expression that will be applied to each GET request to determine whether the ui should be used to handle the request. Note that the entire request path must match the regular expression in order for the match to be considered successful.
...	arguments to pass to golem_opts. See <code>'?golem::get_golem_options'</code> for more details.

Value

Starts the PMXcode Shiny application

Examples

```
## Not run:
if( interactive() ){
  pmxcode::run_app()
}

## End(Not run)
```

scale_value

Prepare initial estimate, min, and max for \$THETA

Description

Prepare initial estimate, min, and max for \$THETA

Usage

```
scale_value(min_value, value, max_value, scale)
```

Arguments

min_value	the minimum value entered in the UI
value	the value entered in the UI
max_value	the maximum value entered in the UI
scale	the scale entered in the UI

tenvars

Format variables by lines of 10.

Description

Format variables by lines of 10.

Usage

tenvars(x)

Arguments

x Character vectors of variables

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