Package: xpose.nlmixr2 (via r-universe)

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Type Package

Title Graphical Diagnostics for Pharmacometric Models: Extension to 'nlmixr2'

Version 0.4.0

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Description Extension to 'xpose' to support 'nlmixr2'. Provides functions to import 'nlmixr2' fit data into an 'xpose' data object, allowing the use of 'xpose' for 'nlmixr2' model diagnostics.

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Encoding UTF-8

LazyData true

Depends R (>= 3.2), xpose (>= 0.4.2)

Imports ggplot2 (>= 2.2.1), dplyr (>= 0.7.4), tibble (>= 2.0.0), stringr (>= 1.2.0), tidyr (>= 0.7.2), magrittr (>= 1.5), methods (>= 3.4.1), vpc (>= 1.0.2), crayon, rlang, nlmixr2est

Suggests readr, nlmixr2

RoxygenNote 7.1.2

Repository https://nlmixr2.r-universe.dev

RemoteUrl https://github.com/nlmixr2/xpose.nlmixr2

RemoteRef HEAD

RemoteSha 1f8cbbaa7a3dd7d9b587e97750808d643eb0c685

Contents

nlmixr2_vpc_theme *Default VPC theme for 'xpose.nlmixr2'*

Description

Default VPC theme for 'xpose.nlmixr2'.

Usage

```
nlmixr2_vpc_theme
```

Format

An object of class `vpc_theme` of length 23.

Value

A list with 'vpc' theme specifiers.

summarise_nlmixr2_model *Data summary function*

Description

Convert 'nlmixr2' model output into an 'xpose' database

Usage

```
summarise_nlmixr2_model(obj, model, software, rounding, runname)
```

Arguments

`obj`	nlmixr2 fit object to be evaluated
`model`	Model. Can be blank
`software`	Software that generated the model fit
`rounding`	Number of figures to round estimates to
`runname`	Name of the model object being converted

Value

A summary data object used by xpose_data_nlmixr2.

theme_xp_nlmixr2 *Default 'nlmixr2' theme for 'xpose'*

Description

Default 'nlmixr2' theme for 'xpose'.

Usage

```
theme_xp_nlmixr2()
```

Value

A list with 'xpose' theme specifiers.

xpose_data_nlmixr2 *Import nlmixr2 output into xpose object*

Description

Convert 'nlmixr2' model output into an 'xpose' database.

Usage

```
xpose_data_nlmixr2(
  obj = NULL,
  pred = NULL,
  wres = NULL,
  gg_theme = theme_readable(),
  xp_theme = theme_xp_default(),
  quiet,
  skip = NULL,
  ...
)

xpose_data_nlmixr(
  obj = NULL,
  pred = NULL,
  wres = NULL,
  gg_theme = theme_readable(),
  xp_theme = theme_xp_default(),
  quiet,
  skip = NULL,
  ...
)
```

Arguments

obj	nlmixr2 fit object to be evaluated.
pred	Name of the population prediction variable to use for plotting. If unspecified, it will choose either "NPDE", "CWRES", and "RES" (in that order) if the column exists in the data.
wres	Name of the weighted residual variable to use for plotting. If unspecified, it will choose either "NPDE", "CWRES", and "RES" (in that order) if the column exists in the data.
gg_theme	A ggplot2 theme object.
xp_theme	An xpose theme or vector of modifications to the xpose theme (eg. `c(point_color = 'red', line_linetype = 'dashed')`).
quiet	Logical, if `FALSE` messages are printed to the console.
skip	Character vector be used to skip the import/generation of: 'data', 'files', 'summary' or any combination of the three.
...	Additional arguments to be passed to the `read_delim` functions.

Value

An `xpose_data` object suitable for use in 'xpose'.

Examples

```
## Not run:
library(nlmixr2)

one.cmt <- function() {
  ini({
    ## You may label each parameter with a comment
    tka <- 0.45 # Ka
    tcl <- log(c(0, 2.7, 100)) # Log Cl
   ## This works with interactive models
    ## You may also label the preceding line with label("label text")
    tv <- 3.45; label("log V")
    ## the label("Label name") works with all models
    eta.ka ~ 0.6
    eta.cl ~ 0.3
    eta.v ~ 0.1
    add.sd <- 0.7
  })
  model({
    ka <- exp(tka + eta.ka)
    cl <- exp(tcl + eta.cl)
    v <- exp(tv + eta.v)
    linCmt() ~ add(add.sd)
  })
}

theo_sd_fit <- nlmixr2(one.cmt, theo_sd, "focei", control=foceiControl(print=0))
```

```
xpdb <- xpose_data_nlmixr2(obj = theo_sd_fit)

## End(Not run)
```

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