

Package: rincewind (via r-universe)

September 21, 2024

Title Utilities for processing forecasts matrices

Version 1.4.7

Description This package contains utility functions for processing forecasts matrices.

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Encoding UTF-8

LazyData true

Imports assessr, dplyr, ggdist, ggplot2, glue, incidence, purrr, rlang, snakecase, slider, tibble, tidyr

RoxygenNote 7.1.1

Depends R (>= 2.10)

Remotes sangeetabhatia03/assessr

Repository <https://mrc-ide.r-universe.dev>

RemoteUrl <https://github.com/mrc-ide/rincewind>

RemoteRef master

RemoteSha 4b8a5d8722e6bad1bba4df6ab1fb46c96dcf29fc

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age_wtd_ifr *Age-weighted IFR of COVID-19*

Description

COVID-19 IFR adjusted for age composition of a country

Usage

```
age_wtd_ifr(locations)
```

Arguments

locations list of country names. Note that no checks have been implemented to test that the country names are valid.

Value

a named list with samples from age-weighted IFR for each location

Author(s)

Sangeeta Bhatia

assign_epidemic_phase2
Assign epidemic phase

Description

Use EpiNow definitions

Usage

```
assign_epidemic_phase2(rt)
```

Arguments

rt a vector of samples from the posterior distribution

Value

phase

Author(s)

Sangeeta Bhatia

cap_predictions	<i>Cap predictions to twice the observed for visualisation</i>
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Description

Cap predictions to twice the observed for visualisation

Usage

```
cap_predictions(pred)
```

Value

data.frame with capped predictions

Author(s)

Sangeeta Bhatia

country_continent_mapping	<i>Country to continent mapping</i>
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Description

A dataset containing a list of countries and corresponding continents. We use this because it lists countries in North America and South America separately.

Usage

```
country_continent_mapping
```

Format

A data frame with 210 rows and 2 variables:

Countries and territories name of country or territory

continent continent

customise_for_rows *Customise plots to be aligned in rows in the manuscript*

Description

Customise plots to be aligned in rows in the manuscript

Usage

```
customise_for_rows(plots, in_rows)
```

Arguments

plots	list of ggplot2 objects
in_rows	list of indices of plots that will be put in rows

Details

The very first plot will have legend but no x-axis text; all plots in the middle will have no legend and no x-axis text, and the very last plot will have no legend but x-axis text

overlaps *Check if two intervals overlap*

Description

Check if two intervals overlap

Usage

```
overlaps(x1, x2, digits)
```

Arguments

x1	a numeric vector of length 2
x2	a numeric vector of length 2
digits	integer indicating the number of decimal places to be used

Value

TRUE if x1 and x2 overlap

Author(s)

Sangeeta Bhatia

plot_projections *projections plot with median and various quantiles*

Description

Projections plot

Usage

```
plot_projections(obs, pred)
```

Arguments

obs data frame with columns dates and deaths

pred data frame with columns dates, val, .lower and .upper. This is an output of ggdist::median_qi function.

Value

ggplot object

Author(s)

Sangeeta Bhatia

scale_date_manuscript *Defines a date scale to be used for all figures.*

Description

Defines a date scale to be used for all figures.

Usage

```
scale_date_manuscript(date_breaks, date_labels, xmin)
```

Arguments

date_breaks breaks for x-axis, Defaults to 1 month

date_labels labels, default is day-month

`ts_to_incid`*Convert time-series to incidence object*

Description

incidence package accepts a linelist like object (list of dates) and converts them into an incid object, which is needed by projections package. To use projections package with a time-series we convert time-series object into incid object.

Usage

```
ts_to_incid(ts, date_col, case_col)
```

Author(s)

Sangeeta Bhatia

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