Package ‘EpiCurve’

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Type Package
Title Plot an Epidemic Curve
Version 2.4-2
Date 2021-07-14
Description Creates simple or stacked epidemic curves for hourly, daily, weekly or monthly outcome data.
License LGPL-3
Encoding UTF-8
URL https://github.com/IamKDO/EpiCurve
Depends ggplot2, dplyr, ISOweek, scales, timeDate
Imports RColorBrewer, tibble
Suggests knitr, rmarkdown
VignetteBuilder knitr
NeedsCompilation no
Author Jean Pierre Decorps [aut, cre]
Maintainer Jean Pierre Decorps <jean.pierre.decorps@gmail.com>
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Description

This function plots an epidemic curve with ggplot2.

Usage

EpiCurve(x, date = NULL, freq = NULL, cutvar = NULL, period = NULL, to.period = NULL, split = 1, cutorder = NULL, colors = NULL, title = NULL, xlabel = NULL, ylabel = NULL, note = NULL, square = TRUE)

Arguments

x data.frame with at least one column with Date type
date character, name of Date column
desc character, name of a column with a value to display
cutvar character, name of a column with factors
period character, c("hour", "day", "week", "month")
to.period character, Convert date period to another period only for aggregated data. If period is "day", to.period can be "week" or "month". If period is "week", to.period can be "month".
split integer, c(1,2,3,4,6,8,12) Value for hourly split
cutorder character vector of factors
colors character vector of colors
title character, title of the plot
xlabel character, label for x axis
ylabel character, label for y axis
note character, add a note under the graph
square boolean, If TRUE (default) squares are used to plot the curve, else if the number of cases is too high please use square = FALSE

Details

When period is "week" the date MUST be in ISOweek format YYYY-WNN and library ISOweek is needed. When period is "month" the date MUST be formatted YYYY-MM.

When period is "hour" the date MUST be in timeDate format (YYYY-mm-dd HH:MM:SS) or (YYYY-mm-dd HH:MM)

Author(s)

<jean.pierre.decorps@gmail.com>
EpiCurve

References


Examples

```r
# library(EpiCurve)
date <- seq(as.timeDate("2017-05-10 21:35:22"), as.timeDate("2017-05-12 06:15:12"), by="12 min")
val <- rep(1, length(date))
tri <- rep(c("Alive", "Died","Unknown"), length.out=length(date))
DF <- data.frame(date, val, tri, stringsAsFactors=TRUE)
names(DF) <- c("date","value", "tri")

EpiCurve(DF,
  date = "date",
  freq = "value",
  period = "hour",
  split = 4,
  cutvar = "tri",
  ylabel="Number of cases",
  xlabel = "From 2017-05-10 21:35:22 To 2017-05-12 06:15:12",
  title = "Epidemic Curve")```
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