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
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R topics documented:

EpiCurve ................................................................. 2

Index 4
EpiCurve

Plot an Epidemic Curve

Description

This function plot 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
freq : 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 pe-
             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 hight 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)

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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")
```
Index

* ~documentation
  EpiCurve, 2

EpiCurve, 2