Package ‘EpiCurve’

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Type Package
Title Plot an Epidemic Curve
Version 2.2-1
Date 2019-09-09
Description Creates simple or stacked epidemic curves for hourly, daily, weekly or monthly outcome data.
License LGPL-3
Encoding UTF-8
LazyData true
Depends ggplot2, dplyr, ISOweek, scales, timeDate
Imports RColorBrewer
Suggests knitr, rmarkdown
VignetteBuilder knitr
NeedsCompilation no
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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)

Arguments

x data.frame with at least one column with Date type
date character, name of Date column
date 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
colores 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

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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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)
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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