Package 'TimeProjection'

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URL https://github.com/jeffwong/TimeProjection
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plotCalendarHeatmap Calendar Heatmap

Description

Create a plot mimicing a calendar with a heatmap of values

Usage

```
plotCalendarHeatmap(dates, values)
```

Arguments

dates a vector of date objects

values a numeric vector with same length as dates

Examples

```
dates = timeSequence(from = '2012-01-01', to = '2012-12-31', by = 'day')
    plotCalendarHeatmap(as.Date(dates), 1:366)
```

projectDate

Time Projection

Description

Project dates to lower dimensional subspace. Extracts components year, month, yday, mday, hour, minute, weekday, bizday and season from a date object

Usage

```
projectDate(dates, size = c("narrow", "wide"),
  holidays = holidayNYSE(year = unique(year(dates))),
  as.numeric = F, drop = T)
```

Arguments

dates date or datetime objects

size either "narrow" or "wide". If narrow, returns a data frame containing the projec-

tions as column variables using factors. If wide, returns a sparse matrix contain-

ing the projections as column variables using 0-1 variables

holidays argument to determine which days are considered holidays, affecting the busi-

ness day projection. By default uses holidayNYSE() provided by the timeDate package, or can be specified as a vector of strings representing dates in the yyyy-

mm-dd format

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as.numeric logical only used when size = "narrow". Returns the columns as numeric values

instead of factors

drop logical. If true, drop any column that only has 1 level or only 1 unique element

in it

Examples

```
dates = timeSequence(from = "2001-01-01", to = "2004-01-01", by = "day")
    projectDate(as.Date(dates))
```

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