Package 'PlotPrjNetworks'

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Type Package

Title Useful Networking Tools for Project Management

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Description Useful set of tools for plotting network diagrams in any kind of project.

License GPL-3

Imports reshape2, ggplot2, grid

NeedsCompilation no

Repository CRAN

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R topics documented:

Date	*Create date type vectors*

Description

This function allows you to create date type vectors.

Usage

```
Date(length = 0)
```

Arguments

length   Length of the date type vector

Value

A date type vector of the indicated length

Author(s)

Javier Celigueta Munoz

Examples

```
Date(3)
Date(length=5)
```

GanttChart   *GanttChart*

Description

This function allows you to display a GANTT chart. It shows the duration, the sequence, the type of precedence constrain, the early and late start and finish dates and floats of all the activities.

Usage

```
GanttChart(tasks, information)
```

Arguments

tasks   A data.frame object with the next fields: task, start and end. All of them must be character vectors. task includes the names of the activities, start and end are the start and end dates for each activity.

information   A data.frame object with the next fields: from, to, type and delay. from, to and delay must be numeric vectors while type is a character vector. from and to indicate all the sequences (the number of each activity is its position in the task vector), type indicates the type of precedence constrain for each link (SS, SF, FF or FS) and finally delay is the float for each one.

Author(s)

Javier Celigueta Munoz

Examples

```
project1=data.frame(
    task=c("Market Research","Concept Development","Viability Test",
"Preliminary Design","Process Design","Prototyping","Market Testing","Final Design",
"Launching"),
   start=c("2015-07-05","2015-07-05","2015-08-05","2015-10-05","2015-10-05","2016-02-18",
"2016-03-18","2016-05-18","2016-07-18"),
    end=c("2015-08-05","2015-08-05","2015-10-05","2016-01-05","2016-02-18","2016-03-18",
"2016-05-18","2016-07-18","2016-09-18"))
project2=data.frame(
    from=c(1,2,3,4,5,6,7,8),
    to=c(2,3,4,5,6,7,8,9),
    type=c("SS","FS","FS","SS","FS","FS","FS","FS"),
    delay=c(7,7,7,8,10,10,10,10))
GanttChart(project1,project2)

info=data.frame(
    task=c("Estimate market and make more exact marketing message",
"Design and order final package","Create press releases",
"Create product specification materials","Create marketing presentations",
"Transmit product launch details to international organization",
"Create sales, local, and product support groups training",
"Update product forecasts based on market feedback and analysis",
"Update launch plan based on forecast"),
   start=c("2015-08-20","2015-08-23","2015-08-23","2015-08-23","2015-08-23","2015-09-04",
    "2015-09-05","2015-08-23","2015-08-24"),
    end=c("2015-08-22","2015-08-29","2015-08-29","2015-09-03","2015-08-29","2015-09-05",
    "2015-09-17","2015-08-24","2015-08-28"))
details=data.frame(
    from=c(1,1,1,1,1,1,2,3,4,5,6,8,9),
    to=c(2,3,4,5,6,8,6,6,6,6,7,9,7),
    type=c("FS","FS","FS","FS","FS","FS","FS","FS","FS","FS","FS","FS","FS"),
    delay=c(0,0,0,0,0,0,0,0,0,0,0,0,0))
GanttChart(info,details)
```

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