

Package ‘rmsfuns’

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Title Quickly View Data Frames in 'Excel', Build Folder Paths and
Create Date Vectors

Version 0.0.0.2

Description Contains several useful navigation helper functions, including easily building
folder paths, quick viewing dataframes in 'Excel', creating date vectors and changing the
console prompt to reflect time.

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Imports tidyverse, zoo, utils, xts, magrittr, purrr, readr

Suggests knitr, rmarkdown

Depends R (>= 3.2.1)

License GPL-3

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build_path	<i>build_path</i>
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Description

build_path builds the entire folder FilePath provided. If the FilePath does not exist, it builds it without error. It is effectively an extension to the base function dir.create.

Usage

```
build_path(FilePath, Silent = TRUE)
```

Arguments

FilePath	A character string with the target folder path. This can be a vector of multiple paths, e.g.: <code>FilePath <- paste0("C:/TestFolder/", c("Subfolder1", "Subfolder2"))</code>
Silent	True by default, if set to FALSE it shows the address of the folder just created. This is, however, saved if used as: <code>Path <- build_path(FilePath)</code> , making the message largely redundant.

Value

Path address just built.

Examples

```
PathLoc <- tempdir()
Path <- build_path(PathLoc)
Pathmultiplecreate <- build_path(file.path(PathLoc, c("XXX", "YYY")))
```

CleanTempFolder	<i>CleanTempFolder</i>
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Description

This function will clean all the csv files created using ViewXL in the temp folder. This might take a while to clean if not done regularly.

Usage

```
CleanTempFolder()
```

Value

Cleaned R Temp Folder.

Examples

```
CleanTempFolder()
```

```
dateconverter
```

```
dateconverter
```

Description

dateconverter makes it easy to create a date vector in R. It offers a simple wrapper using xts functionality to create a vector of dates between a given Start and End date, and then correcting for the chosen frequency transformation.

Usage

```
dateconverter(StartDate, EndDate, Transform)
```

Arguments

StartDate	A valid as.Date object. This can be given as ymd("2000-01-01") or as.Date("2000-01-01")
EndDate	A valid as.Date object. This can be given as ymd("2000-01-01") or as.Date("2000-01-01")
Transform	This is the days that you want returned. Options include: alldays: All calendar days between the start and end date calendarEOM: Last calendar day of each month between the start and end date weekdays: All weekdays between the start and end date (mon - fri) weekdayEOW: All last weekdays between the start and end date weekdayEOM: All last weekdays of the month between the start and end date weekdayEOQ: All last weekdays of the quarter between the start and end date weekdayEOY: All last weekdays of the year between the start and end date

Value

Path address just built.

Examples

```
dateconverter(as.Date("2000-01-01"),
as.Date("2017-01-01"), "weekdays")
dateconverter(as.Date("2000-01-01"),
as.Date("2017-01-01"), "calendarEOM")
dateconverter(as.Date("2000-01-01"),
as.Date("2017-01-01"), "weekdayEOW")
dateconverter(as.Date("2000-01-01"),
as.Date("2017-01-01"), "weekdayEOM")
dateconverter(as.Date("2000-01-01"),
as.Date("2017-01-01"), "weekdayEOQ")
dateconverter(as.Date("2000-01-01"),
```

```
as.Date("2017-01-01"), "weekdayEOY")
dateconverter(as.Date("2000-01-01"),
as.Date("2017-01-01"), "alldays")
```

load_pkg	<i>load_pkg</i>
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Description

load_pkg Loads a list of packages. If a package requires installation, the function will install it from CRAN. Function is a CRAN only wrapper.

Usage

```
load_pkg(packagelist)
```

Arguments

packagelist Vector of packages to load into R

Value

Packages loaded into R

Examples

```
packagelist <- c("purrr", "readr")
load_pkg(packagelist)
```

PromptAsTime	<i>PromptAsTime</i>
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Description

This changes Rstudio's prompt at the bottom to reflect time. Particularly useful for timing functions when executing long scripts.

Usage

```
PromptAsTime(On)
```

Arguments

On set On to TRUE (Add time to prompt) or FALSE (use default prompt).

Value

The Prompter in Rstudio will now include the time.

Examples

```
PromptAsTime(TRUE)
x <- 100
Sys.sleep(3)
#' x*x
print(x)
```

ViewXL

*ViewXL***Description**

Views a data.frame or tbl_df object in excel, by saving it in R's temporary file directory (see: tempdir()). It will automatically open the excel sheet. User has the choice too of overriding the file location by setting the FilePath directly.

Usage

```
ViewXL(DataFrame, FilePath, FileName, ViewTempFile = TRUE, mac = FALSE)
```

Arguments

DataFrame	This is the dataframe or tbl_df that will be displayed in excel
FilePath	If left blank, tempfile will be used. If specified, the excel files will be saved in specified location.
FileName	If specified to save csv file, this would be the name. If left blank and a FilePath has been specified, it would prompt the user to add a FileName.
ViewTempFile	True by default, if False it will not open the excel file, but merely save it. Only useful if provided with a FilePath.
mac	FALSE by default, set to TRUE if using a Mac, else the shell.exec will not work.

Value

Chosen data frame or tbl_df opened directly in excel.

Examples

```
df <- data.frame( date = seq(
  as.Date("2012-01-01"),
  as.Date("2015-08-18"), "day"),
  x = rnorm(1326, 10, 2))
ViewXL(df)
```

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