

Package: `kwb.mia.evalCritO2` (via `r-universe`)

October 29, 2024

Title Evaluation of MIA-CSO data with R

Version 0.2.4

Description Definition of functions that will be used to produce diagrams showing the number of critical oxygen events in the river.

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URL <https://github.com/KWB-R/kwb.mia.evalCritO2>

BugReports <https://github.com/KWB-R/kwb.mia.evalCritO2/issues>

Imports `kwb.barplot`, `kwb.base`, `kwb.db`, `kwb.utils`

Remotes `github::kwb-r/kwb.barplot`, `github::kwb-r/kwb.base`,
`github::kwb-r/kwb.db`, `github::kwb-r/kwb.utils`

Encoding UTF-8

RoxygenNote 7.1.2

Repository <https://kwb-r.r-universe.dev>

RemoteUrl <https://github.com/KWB-R/kwb.mia.evalCritO2>

RemoteRef HEAD

RemoteSha 584ef0552c1f291a18f9084aeddabc3da1d31ce47

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hsGroupByYearAndKm *Group By Year And Km*

Description

Groups input data.frame by its columns "Jahr" and "Spree_km".

Usage

```
hsGroupByYearAndKm(
  frmData,
  strValField,
  boolDescKm = FALSE,
  boolDescYr = FALSE,
  vecMp = NULL
)
```

Arguments

frmData	data.frame with columns "Jahr" and "Spree_km"
strValField	Name of value field in input data.frame of which for each Jahr/Spree_km group the sum will be calculated.
boolDescKm	if TRUE, columns in result matrix will be ordered according to decreasing "Spree_km" values
boolDescYr	if TRUE, columns in result matrix will be ordered according to decreasing "Jahr" values
vecMp	Vector containing pairs of km value and monitoring point name

Value

Returns the matrix calculated by hsGroupBy2Fields()

hsPlotAll *Plot All*

Description

Plot result of evaluation in forms of barplots, with default settings

Usage

```

hsPlotAll(
  strDb,
  strTable,
  myScaled = TRUE,
  myReverse = TRUE,
  myBeside = TRUE,
  myCexNames = 1,
  mySub = "",
  dbg = FALSE,
  myWidth = 1,
  myValLabs = FALSE,
  yearsInSub = FALSE,
  lng = "de",
  ...
)

```

Arguments

strDb	path to Microsoft Access Database file
strTable	name of database table containing the data to plot
myScaled	logical. Default: TRUE
myReverse	logical. Default: TRUE
myBeside	if TRUE (the default), bars are plotted side by side
myCexNames	character expansion factor for names
mySub	subtitle. Default: ""
dbg	if TRUE, debug messages are shown
myWidth	bar width. Default: 1
myValLabs	logical. Default: FALSE
yearsInSub	logical. Default: FALSE
lng	language code, one of "en" (English, the default) or "de" (German)
...	further arguments passed to hsPlotCritEvents

hsPlotAllToPdf

Plot All To PDF File

Description

Print result of evaluation in forms of barplots into pdf file

Usage

```
hsPlotAllToPdf(strPdf, ...)
```

Arguments

strPdf path to PDF file to which to plot
 ... further arguments passed to [hsPlotAll](#)

hsPlotO2Eval *Plot O2 Evaluation*

Description

Plot O2 Evaluation

Usage

```
hsPlotO2Eval(dat, main = "Title?", lng = "en")
```

Arguments

dat data frame with columns *Jahr*, *LamEvents*, *2mgEvents*, *LamKalTage*, *2mgKalTage*
 main main plot title
 lng language code, one of "en" (English, the default) or "de" (German)

hsPlotO2EvalPdf *Plot Result of O2 Evaluation to PDF*

Description

Plot Result of O2 Evaluation to PDF

Usage

```
hsPlotO2EvalPdf(dat, main = "Title?", pdffile = NULL)
```

Arguments

dat data frame with columns *Jahr*, *LamEvents*, *2mgEvents*, *LamKalTage*, *2mgKalTage*
 main main plot title
 pdffile path to PDF file to which to plot

hsTranslate	<i>Translate</i>
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Description

translates *text.en* into target language *lng*.

Usage

```
hsTranslate(text.en, lng)
```

Arguments

text.en	english text (character vector of length 1 expected)
lng	target language: en = English, de = German

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