Package: MCOE (via r-universe)

September 4, 2024

Type Package

Title Creates New Folders and Loads Standard Practices for Monterey County Office of Education

Version 0.4.0

Description Basic Setup for Projects in R for Monterey County Office of Education. It contains functions often used in the analysis of education data in the county office including seeing if an item is not in a list, rounding in the manner the general public expects, including logos for districts, switching between district names and their county-district-school codes, accessing the local 'SQL' table and making thematically consistent graphs.

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URL https://github.com/dobrowski/MCOE

BugReports https://github.com/dobrowski/MCOE/issues

Depends R (>= 2.10)

Imports DBI, dplyr, forcats, ggplot2, ggthemes, googlesheets4, keyring, magick, odbc, scales

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

Repository https://dobrowski.r-universe.dev

RemoteUrl https://github.com/dobrowski/mcoe

RemoteRef HEAD

RemoteSha 60030ad9928557cb0f93ff7aac6ca6b806eaf722

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Description

When using the MCOE 'SQL' tables, it will merge codebook descriptions from CDE

Usage

```
left_join_codebook(df, tablename, field)
```

Arguments

df local dataframe you want to append labels to

tablename which 'SQL' table is the data from

field which field in the table do you want the labels for

Value

An 'tibble' of the same type as '.data'. The output has an one column names 'definition' which contains labels for the passed argument 'field'.

Examples

```
try(
sbac.filtered <- tbl(con, "CAASPP") |>
head(100) |>
collect() |>
left_join_codebook("CAASPP", "Subgroup_ID")
)
```

lollipop 3

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Graphing function to make lollipop bar graphs

Description

Graphing function to make lollipop bar graphs

Usage

```
lollipop(df, y_var, x_var, colorme)
```

Arguments

df dataframe source to graph

 y_var variable for Y x_var variable for X

colorme color to make the bars

Value

a 'ggplot' class graph with horiztontal bars with circles at the end of the bars

Examples

```
library(dplyr)
df.example <- dplyr::tribble(~name, ~rate, "Nina",32,"David",65)
lollipop(df = df.example, x_var = name, y_var = rate, colorme = "pink" )</pre>
```

 $mcoe_d_logo$

Given a CDS code, adds the district logo

Description

Given a CDS code, adds the district logo

Usage

```
mcoe_d_logo(cds.number)
```

Arguments

cds.number

County-District-School code from California Department of Education

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Value

'mcoe_d_logo' an object of class 'magick-image' from [magick::image_read()] which is an image file of the district logo

Examples

```
try(mcoe_d_logo("27659870000000"))
```

mcoe_logo

Adds the MCOE logo

Description

Adds the MCOE logo

Usage

```
mcoe_logo()
```

Value

'mcoe_logo' an object of class 'magick-image' from [magick::image_read()] which is an image file of the MCOE logo

Examples

```
mcoe_logo()
```

 ${\tt mcoe_logo_location}$

Given a CDS code it provides the logo

Description

Given a CDS code it provides the logo

Usage

```
mcoe_logo_location(cds.number)
```

Arguments

cds.number

County-District-School code from California Department of Education

Value

'mcoe_logo_location' returns a 'string' containing a file location the district logo

mcoe_name 5

Examples

```
mcoe_logo_location("27659870000000")
```

mcoe_name

Given a CDS code, it gives the name of the district

Description

Given a CDS code, it gives the name of the district

Usage

```
mcoe_name(cds.number)
```

Arguments

cds.number

County-District-School code from California Department of Education

Value

a 'string' of the district name

Examples

```
mcoe_name("27661590000000")
```

mcoe_sql_con

Connects to the MCOE 'SQL' tables

Description

Connects to the MCOE 'SQL' tables

Usage

```
mcoe_sql_con()
```

Value

a database connection in the form of [DBI::dbConnect]

Examples

```
try(mcoe_sql_con())
```

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mcoe_theme

Modifies ggplots to use a common theme

Description

Modifies ggplots to use a common theme

Usage

mcoe_theme

Format

An object of class list of length 4.

Value

a 'list' of [ggplot] elements to add to a graph

Examples

```
library(dplyr)
df.example <- dplyr::tribble(~name, ~rate, "Nina",32,"David",65)
g <- ggplot2::ggplot(df.example, ggplot2::aes(name, rate)) + ggplot2::geom_col()
g + mcoe_theme</pre>
```

mry.dist

School District Directory

Description

A subset of data from California Department of Education identifying schools

Usage

```
mry.dist
```

Format

'mry.dist' A data frame with 256 rows and 50 columns:

District District name **School** School name

CDScode County, District, School code ...

Source

https://www.cde.ca.gov/ds/si/ds/pubschls.asp

round2 7

round2

Rounding the way most people do it with .5 roudning up

Description

Rounding the way most people do it with .5 roudning up

Usage

```
round2(x, digits = 2)
```

Arguments

x number to be roundeddigits how many digits to round to

Value

'round2' returns a truncated 'numeric' with decimal places equal to 'digits' argument

Examples

```
x <- 1.2345 round2(x, digits = 2)
```

%notin%

MCOE The inverse of _in_ where the list is excluded

Description

MCOE The inverse of _in_ where the list is excluded

Usage

```
x %notin% table
```

Arguments

x Item or list to look at

table List to make sure it is not part of

Value

4

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Examples

```
fruit <- c("apple", "banana", "pear", "pineapple")
"kiwi" %notin% fruit</pre>
```

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