

Package ‘MCOE’

November 11, 2025

Type Package

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

Version 0.6.0

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 (>= 4.1.0)

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 7.3.3

NeedsCompilation no

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Repository CRAN

Date/Publication 2025-11-10 23:30:02 UTC

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left_join_codebook	<i>When using the MCOE 'SQL' tables, it will merge codebook descriptions from CDE</i>
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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

*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 horizontal 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" )
```

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("276598700000000"))
```

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()
```

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

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())
```

mcoe_theme	<i>Modifies ggplots to use a common theme</i>
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Description

Modifies ggplots to use a common theme

Usage

```
mcoe_theme
```

Format

An object of class theme (inherits from ggplot2::theme, gg, S7_object) of length 16.

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
```

mry.dist	<i>School District Directory</i>
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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	<i>Rounding the way most people do it with .5 roudning up</i>
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Description

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

Usage

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

Arguments

x	number to be rounded
digits	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%	<i>MCOE The inverse of _in_ where the list is excluded</i>
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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

‘

Examples

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

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