# Package 'MCOE'

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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

NeedsCompilation no

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**Repository** CRAN

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left\_join\_codebook When using the MCOE 'SQL' tables, it will merge codebook descriptions from CDE

# 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")
)
```

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lollipop

# 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

#### 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()

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

#### 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("2766159000000")

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

#### 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

# Description

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

# Usage

round2(x, digits = 2)

# Arguments

х	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)</pre>
```

%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

х	Item or list to look at
table	List to make sure it is not part of

#### Value

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%notin%

# Examples

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

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