

# Package ‘MCOE’

May 7, 2026

**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

**Author** David Dobrowski [aut, cre, cph]

**Maintainer** David Dobrowski <[ddobrowski@montereycoe.org](mailto:ddobrowski@montereycoe.org)>

**Repository** CRAN

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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")
)
```

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lollipop	<i>Graphing function to make lollipop bar graphs</i>
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**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" )
```

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mcoe_d_logo	<i>Given a CDS code, adds the district logo</i>
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**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"))
```

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mcoe_logo	<i>Adds the MCOE logo</i>
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**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()
```

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mcoe_logo_location	<i>Given a CDS code it provides the logo</i>
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**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	<i>Given a CDS code, it gives the name of the district</i>
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---

**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")
```

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mcoe_sql_con	<i>Connects to the MCOE 'SQL' tables</i>
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**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	<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
```

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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>>



**Examples**

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

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