

# Package ‘visOmopResults’

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**Title** Graphs and Tables for OMOP Results

**Version** 1.4.0

**Maintainer** Núria Mercadé-Besora <nuria.mercadebesora@endorms.ox.ac.uk>

**Description** Provides methods to transform omop\_result objects into formatted tables and figures, facilitating the visualisation of study results working with the Observational Medical Outcomes Partnership (OMOP) Common Data Model.

**License** Apache License (>= 2)

**URL** <https://darwin-eu.github.io/visOmopResults/>,  
<https://github.com/darwin-eu/visOmopResults>

**BugReports** <https://github.com/darwin-eu/visOmopResults/issues>

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**Author** Martí Català [aut] (ORCID: <<https://orcid.org/0000-0003-3308-9905>>),  
Núria Mercadé-Besora [aut, cre] (ORCID:  
<<https://orcid.org/0009-0006-7948-3747>>),

Yuchen Guo [ctb] (ORCID: <<https://orcid.org/0000-0002-0847-4855>>),  
Elin Rowlands [ctb] (ORCID: <<https://orcid.org/0009-0007-6629-4661>>),  
Marta Alcalde-Herraiz [ctb] (ORCID:  
<<https://orcid.org/0009-0002-4405-1814>>),  
Edward Burn [ctb] (ORCID: <<https://orcid.org/0000-0002-9286-1128>>)

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|         |                                                                   |
|---------|-------------------------------------------------------------------|
| barPlot | Create a bar plot visualisation from a <summarised_result> object |
|---------|-------------------------------------------------------------------|

---

Description

Create a bar plot visualisation from a <summarised\_result> object

**Usage**

```
barPlot(
  result,
  x,
  y,
  width = NULL,
  just = 0.5,
  position = "dodge",
  facet = NULL,
  colour = NULL,
  style = NULL,
  type = NULL,
  label = character()
)
```

**Arguments**

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| result   | A <summarised_result> object.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| x        | Column or estimate name that is used as x variable.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| y        | Column or estimate name that is used as y variable.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| width    | Bar width, as in <code>geom_col()</code> of the <code>ggplot2</code> package.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| just     | Adjustment for column placement, as in <code>geom_col()</code> of the <code>ggplot2</code> package.                                                                                                                                                                                                                                                                                                                                                                                                          |
| position | Position of bars, can be either <code>dodge</code> or <code>stack</code>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| facet    | Variables to facet by, a formula can be provided to specify which variables should be used as rows and which ones as columns.                                                                                                                                                                                                                                                                                                                                                                                |
| colour   | Columns to use to determine the colours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| style    | Visual theme to apply. Character, or <code>NULL</code> . If a character, this may be either the name of a built-in style (see <code>plotStyle()</code> ), or a path to a <code>.yaml</code> file that defines a custom style. If <code>NULL</code> , the function will use the explicit default style, unless a global style option is set (see <code>setGlobalPlotOptions()</code> ), or a <code>_brand.yaml</code> file is present (in that order). Refer to the package vignette on styles to learn more. |
| type     | Character string indicating the output plot format. See <code>plotType()</code> for the list of supported plot types. If <code>type = NULL</code> , the function will use the global setting defined via <code>setGlobalPlotOptions()</code> (if available); otherwise, a standard <code>ggplot2</code> plot is produced by default.                                                                                                                                                                         |
| label    | Character vector with the columns to display interactively in <code>plotly</code> .                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Value**

A plot object.

**Examples**

```
result <- mockSummarisedResult() |> dplyr::filter(variable_name == "age")

barPlot(
```

```

result = result,
x = "cohort_name",
y = "mean",
facet = c("age_group", "sex"),
colour = "sex")

```

---

**boxPlot**

*Create a box plot visualisation from a <summarised\_result> object*

---

### Description

Create a box plot visualisation from a <summarised\_result> object

### Usage

```

boxPlot(
  result,
  x,
  lower = "q25",
  middle = "median",
  upper = "q75",
  ymin = "min",
  ymax = "max",
  facet = NULL,
  colour = NULL,
  style = NULL,
  type = NULL,
  label = character()
)

```

### Arguments

|        |                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------|
| result | A <summarised_result> object.                                                                                                 |
| x      | Column or estimate name that is used as x variable.                                                                           |
| lower  | Estimate name for the lower quantile of the box.                                                                              |
| middle | Estimate name for the middle line of the box.                                                                                 |
| upper  | Estimate name for the upper quantile of the box.                                                                              |
| ymin   | Lower limit of error bars, if provided is plot using geom_errorbar.                                                           |
| ymax   | Upper limit of error bars, if provided is plot using geom_errorbar.                                                           |
| facet  | Variables to facet by, a formula can be provided to specify which variables should be used as rows and which ones as columns. |
| colour | Columns to use to determine the colours.                                                                                      |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| style | Visual theme to apply. Character, or NULL. If a character, this may be either the name of a built-in style (see <code>plotStyle()</code> ), or a path to a <code>.yaml</code> file that defines a custom style. If NULL, the function will use the explicit default style, unless a global style option is set (see <code>setGlobalPlotOptions()</code> ), or a <code>_brand.yaml</code> file is present (in that order). Refer to the package vignette on styles to learn more. |
| type  | Character string indicating the output plot format. See <code>plotType()</code> for the list of supported plot types. If <code>type = NULL</code> , the function will use the global setting defined via <code>setGlobalPlotOptions()</code> (if available); otherwise, a standard <code>ggplot2</code> plot is produced by default.                                                                                                                                             |
| label | Character vector with the columns to display interactively in <code>plotly</code> .                                                                                                                                                                                                                                                                                                                                                                                              |

**Value**

A `ggplot2` object.

**Examples**

```
dplyr::tibble(year = "2000", q25 = 25, median = 50, q75 = 75, min = 0, max = 100) |>
  boxPlot(x = "year")
```

---

 customiseText

*Apply styling to text or column names*


---

**Description**

This function styles character vectors or column names in a data frame. The styling function can be customised, or you can provide specific replacements for certain values.

**Usage**

```
customiseText(
  x,
  fun = function(x) stringr::str_to_sentence(gsub("_", " ", x)),
  custom = NULL,
  keep = NULL
)
```

**Arguments**

|        |                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| x      | A character vector to style text.                                                                                                         |
| fun    | A styling function to apply to text in x. The default function converts <code>snake_case</code> to sentence case.                         |
| custom | A named character vector indicating custom names for specific values in x. If NULL, the styling function in fun is applied to all values. |
| keep   | Either a character vector of names to keep unchanged. If NULL, all names will be styled.                                                  |

**Value**

A character vector of styled text or a data frame with styled column names.

**Examples**

```
# Styling a character vector
customiseText(c("some_column_name", "another_column"))

# Custom styling for specific values
customiseText(x = c("some_column", "another_column"),
              custom = c("Custom Name" = "another_column"))

# Keeping specific values unchanged
customiseText(x = c("some_column", "another_column"), keep = "another_column")

# Styling column names and variables in a data frame
dplyr::tibble(
  some_column = c("hi_there", "rename_me", "example", "to_keep"),
  another_column = 1:4,
  to_keep = "as_is"
) |>
dplyr::mutate(
  "some_column" = customiseText(some_column, custom = c("EXAMPLE" = "example"), keep = "to_keep")
) |>
dplyr::rename_with(.fn = ~ customiseText(.x, keep = "to_keep"))
```

---

|      |                             |
|------|-----------------------------|
| data | <i>List of mock results</i> |
|------|-----------------------------|

---

**Description**

List of mock results

**Usage**

data

**Format**

A list of mock results for quarto and shiny vignette examples

---

|           |                       |
|-----------|-----------------------|
| emptyPlot | Returns an empty plot |
|-----------|-----------------------|

---

**Description**

Returns an empty plot

**Usage**

```
emptyPlot(title = "No data to plot", subtitle = "", type = NULL, style = NULL)
```

**Arguments**

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| title    | Title to use in the empty plot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| subtitle | Subtitle to use in the empty plot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| type     | Character string indicating the output plot format. See <code>plotType()</code> for the list of supported plot types. If <code>type = NULL</code> , the function will use the global setting defined via <code>setGlobalPlotOptions()</code> (if available); otherwise, a standard <code>ggplot2</code> plot is produced by default.                                                                                                                                                                         |
| style    | Visual theme to apply. Character, or <code>NULL</code> . If a character, this may be either the name of a built-in style (see <code>plotStyle()</code> ), or a path to a <code>.yaml</code> file that defines a custom style. If <code>NULL</code> , the function will use the explicit default style, unless a global style option is set (see <code>setGlobalPlotOptions()</code> ), or a <code>_brand.yaml</code> file is present (in that order). Refer to the package vignette on styles to learn more. |

**Value**

An empty `ggplot` object

**Examples**

```
emptyPlot()
```

---

|            |                        |
|------------|------------------------|
| emptyTable | Returns an empty table |
|------------|------------------------|

---

**Description**

Returns an empty table

**Usage**

```
emptyTable(type = NULL, style = NULL)
```

**Arguments**

- |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type  | Character string specifying the desired output table format. See <code>tableType()</code> for supported table types. If <code>type = NULL</code> , global options (set via <code>setGlobalTableOptions()</code> ) will be used if available; otherwise, a default 'gt' table is created.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| style | <p>Defines the visual formatting of the table. This argument can be provided in one of the following ways:</p> <ol style="list-style-type: none"> <li>1. <b>Pre-defined style:</b> Use the name of a built-in style (e.g., "darwin"). See <code>tableStyle()</code> for available options.</li> <li>2. <b>YAML file path:</b> Provide the path to an existing .yaml file defining a new style.</li> <li>3. <b>List of custom R code:</b> Supply a block of custom R code or a named list describing styles for each table section. This code must be specific to the selected table type. If <code>style = NULL</code>, the function will use global options (see <code>setGlobalTableOptions()</code>) or an existing <code>_brand.yaml</code> file (if found); otherwise, the default style is applied. For more details, see the <i>Styles</i> vignette on the package website.</li> </ol> |

**Value**

An empty table of the class specified in `type`

**Examples**

```
emptyTable(type = "flextable")
```

---

|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
| <code>formatEstimateName</code> | <i>Formats estimate_name and estimate_value column</i> |
|---------------------------------|--------------------------------------------------------|

---

**Description**

Formats `estimate_name` and `estimate_value` columns by changing the name of the estimate name and/or joining different estimates together in a single row.

**Usage**

```
formatEstimateName(
  result,
  estimateName = NULL,
  keepNotFormatted = TRUE,
  useFormatOrder = TRUE
)
```

**Arguments**

- `result` A <summarised\_result>.
- `estimateName` Named list of estimate name's to join, sorted by computation order. Indicate estimate\_name's between <...>.
- `keepNotFormatted` Whether to keep rows not formatted.
- `useFormatOrder` Whether to use the order in which estimate names appear in the estimateName (TRUE), or use the order in the input dataframe (FALSE).

**Value**

A <summarised\_result> object.

**Examples**

```
result <- mockSummarisedResult()
result |>
  formatEstimateName(
    estimateName = c(
      "N (%)" = "<count> (<percentage>%)", "N" = "<count>"
    ),
    keepNotFormatted = FALSE
  )
```

---

|                     |                                          |
|---------------------|------------------------------------------|
| formatEstimateValue | <i>Formats the estimate_value column</i> |
|---------------------|------------------------------------------|

---

**Description**

Formats the estimate\_value column of <summarised\_result> object by editing number of decimals, decimal and thousand/millions separator marks.

**Usage**

```
formatEstimateValue(
  result,
  decimals = c(integer = 0, numeric = 2, percentage = 1, proportion = 3),
  decimalMark = ".",
  bigMark = ",",
)
```

**Arguments**

|             |                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| result      | A <summarised_result>.                                                                                                                                     |
| decimals    | Number of decimals per estimate type (integer, numeric, percentage, proportion), estimate name, or all estimate values (introduce the number of decimals). |
| decimalMark | Decimal separator mark.                                                                                                                                    |
| bigMark     | Thousand and millions separator mark.                                                                                                                      |

**Value**

A <summarised\_result>.

**Examples**

```
result <- mockSummarisedResult()

result |> formatEstimateValue(decimals = 1)

result |> formatEstimateValue(decimals = c(integer = 0, numeric = 1))

result |>
  formatEstimateValue(decimals = c(numeric = 1, count = 0))
```

---

formatHeader

---

*Create a header for gt and flextable objects*


---

**Description**

Pivots a <summarised\_result> object based on the column names in header, generating specific column names for subsequent header formatting in formatTable function.

**Usage**

```
formatHeader(
  result,
  header,
  delim = "\n",
  includeHeaderName = TRUE,
  includeHeaderKey = TRUE
)
```

**Arguments**

|        |                                         |
|--------|-----------------------------------------|
| result | A <summarised_result>.                  |
| header | Names of the variables to make headers. |
| delim  | Delimiter to use to separate headers.   |

`includeHeaderName`  
Whether to include the column name as header.

`includeHeaderKey`  
Whether to include the header key (header, header\_name, header\_level) before each header type in the column names.

**Value**

A tibble with rows pivotted into columns with key names for subsequent header formatting.

**Examples**

```
result <- mockSummarisedResult()

result |>
  formatHeader(
    header = c(
      "Study cohorts", "group_level", "Study strata", "strata_name",
      "strata_level"
    ),
    includeHeaderName = FALSE
  )
```

---

|                                 |                                                                                            |
|---------------------------------|--------------------------------------------------------------------------------------------|
| <code>formatMinCellCount</code> | <i>To indicate which was the minimum cell counts where estimates have been suppressed.</i> |
|---------------------------------|--------------------------------------------------------------------------------------------|

---

**Description**

To indicate which was the minimum cell counts where estimates have been suppressed.

**Usage**

```
formatMinCellCount(result)
```

**Arguments**

`result` A <summarised\_result> object.

**Examples**

```
result <- mockSummarisedResult()
result |> formatMinCellCount()
```

---

|             |                                                          |
|-------------|----------------------------------------------------------|
| formatTable | <i>Creates a flextable or gt object from a dataframe</i> |
|-------------|----------------------------------------------------------|

---

### Description

Creates a flextable object from a dataframe using a delimiter to span the header, and allows to easily customise table style.

### Usage

```
formatTable(
  x,
  type = NULL,
  delim = "\n",
  style = NULL,
  na = "-",
  title = NULL,
  subtitle = NULL,
  caption = NULL,
  groupColumn = NULL,
  groupAsColumn = FALSE,
  groupOrder = NULL,
  merge = "all_columns"
)
```

### Arguments

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| x     | A dataframe.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| type  | Character string specifying the desired output table format. See <code>tableType()</code> for supported table types. If <code>type = NULL</code> , global options (set via <code>setGlobalTableOptions()</code> ) will be used if available; otherwise, a default 'gt' table is created.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| delim | Delimiter to separate headers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| style | Defines the visual formatting of the table. This argument can be provided in one of the following ways: <ol style="list-style-type: none"> <li><b>Pre-defined style:</b> Use the name of a built-in style (e.g., "darwin"). See <code>tableStyle()</code> for available options.</li> <li><b>YAML file path:</b> Provide the path to an existing .yaml file defining a new style.</li> <li><b>List of custom R code:</b> Supply a block of custom R code or a named list describing styles for each table section. This code must be specific to the selected table type. If <code>style = NULL</code>, the function will use global options (see <code>setGlobalTableOptions()</code>) or an existing <code>_brand.yaml</code> file (if found); otherwise, the default style is applied. For more details, see the <i>Styles</i> vignette on the package website.</li> </ol> |
| na    | How to display missing values. Not used for "datatable" and "reactable".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| title         | Title of the table, or NULL for no title. Not used for "datatable".                                                                                                                                                                                                                                                                                                                                                                                                                           |
| subtitle      | Subtitle of the table, or NULL for no subtitle. Not used for "datatable" and "reactable".                                                                                                                                                                                                                                                                                                                                                                                                     |
| caption       | Caption for the table, or NULL for no caption. Text in markdown formatting style (e.g. <i>*Your caption here*</i> for caption in italics). Not used for "reactable".                                                                                                                                                                                                                                                                                                                          |
| groupColumn   | Columns to use as group labels, to see options use <code>tableColumns(result)</code> . By default, the name of the new group will be the tidy* column names separated by ";". To specify a custom group name, use a named list such as: <code>list("newGroupName" = c("variable_name", "variable_level"))</code> .<br><br>*tidy: The tidy format applied to column names replaces "_" with a space and converts to sentence case. Use <code>rename</code> to customise specific column names. |
| groupAsColumn | Whether to display the group labels as a column (TRUE) or rows (FALSE). Not used for "datatable" and "reactable"                                                                                                                                                                                                                                                                                                                                                                              |
| groupOrder    | Order in which to display group labels. Not used for "datatable" and "reactable".                                                                                                                                                                                                                                                                                                                                                                                                             |
| merge         | Names of the columns to merge vertically when consecutive row cells have identical values. Alternatively, use "all_columns" to apply this merging to all columns, or use NULL to indicate no merging. Not used for "datatable" and "reactable".                                                                                                                                                                                                                                               |

## Value

A formatted table of the class selected in "type" argument.

## Examples

```
# Example 1
mockSummarisedResult() |>
  formatEstimateValue(decimals = c(integer = 0, numeric = 1)) |>
  formatHeader(
    header = c("Study strata", "strata_name", "strata_level"),
    includeHeaderName = FALSE
  ) |>
  formatTable(
    type = "flectable",
    style = "default",
    na = "--",
    title = "fxTable example",
    subtitle = NULL,
    caption = NULL,
    groupColumn = "group_level",
    groupAsColumn = TRUE,
    groupOrder = c("cohort1", "cohort2"),
    merge = "all_columns"
  )

# Example 2
mockSummarisedResult() |>
  formatEstimateValue(decimals = c(integer = 0, numeric = 1)) |>
```

```

formatHeader(header = c("Study strata", "strata_name", "strata_level"),
             includeHeaderName = FALSE) |>
formatTable(
  type = "gt",
  style = list("header" = list(
    gt::cell_fill(color = "#d9d9d9"),
    gt::cell_text(weight = "bold")),
  "header_level" = list(gt::cell_fill(color = "#e1e1e1"),
    gt::cell_text(weight = "bold")),
  "column_name" = list(gt::cell_text(weight = "bold")),
  "title" = list(gt::cell_text(weight = "bold"),
    gt::cell_fill(color = "#c8c8c8")),
  "group_label" = gt::cell_fill(color = "#e1e1e1")),
  na = "--",
  title = "gtTable example",
  subtitle = NULL,
  caption = NULL,
  groupColumn = "group_level",
  groupAsColumn = FALSE,
  groupOrder = c("cohort1", "cohort2"),
  merge = "all_columns"
)

```

---

mockSummarisedResult    A <summarised\_result> object filled with mock data

---

## Description

Creates an object of the class <summarised\_result> with mock data for illustration purposes.

## Usage

```
mockSummarisedResult()
```

## Value

An object of the class <summarised\_result> with mock data.

## Examples

```
mockSummarisedResult()
```

---

|             |                                       |
|-------------|---------------------------------------|
| plotColumns | <i>Columns for the plot functions</i> |
|-------------|---------------------------------------|

---

**Description**

Names of the columns that can be used in the input arguments for the plot functions.

**Usage**

```
plotColumns(result)
```

**Arguments**

result            A <summarised\_result> object.

**Value**

A character vector of supported columns for plots.

**Examples**

```
result <- mockSummarisedResult()
plotColumns(result)
```

---

|           |                                                   |
|-----------|---------------------------------------------------|
| plotStyle | <i>Pre-defined styles are available for plots</i> |
|-----------|---------------------------------------------------|

---

**Description**

This function provides a list of pre-defined styles for plots that can then be used in the `style` argument of the plot functions.

**Usage**

```
plotStyle()
```

**Value**

A character vector indicating the style names.

**Examples**

```
plotStyle()
```

---

|          |                             |
|----------|-----------------------------|
| plotType | <i>Supported plot types</i> |
|----------|-----------------------------|

---

**Description**

This function returns the supported plot types that can be used in the `type` argument of the plot functions.

**Usage**

```
plotType()
```

**Value**

A character vector of supported plot types.

**Examples**

```
tableType()
```

---

|                  |                                                 |
|------------------|-------------------------------------------------|
| requireExtrafont | <i>Get Calibri font for "darwin" plot style</i> |
|------------------|-------------------------------------------------|

---

**Description**

Imports and registers the Calibri font for use in ggplot2 plots when using the themeDarwin.

**Usage**

```
requireExtrafont(device = "win")
```

**Arguments**

|        |                                                                                                                                         |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------|
| device | Character string indicating the graphics device to load the fonts into (e.g., "win", "pdf", "postscript"). Defaults to "win" (Windows). |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------|

**Details**

This function is required only once per R installation or after installing a new font. It uses the extrafont package to map system fonts to R's graphics devices.

**Value**

Invisibly returns TRUE on successful registration.

---

|             |                                                                       |
|-------------|-----------------------------------------------------------------------|
| scatterPlot | Create a scatter plot visualisation from a <summarised_result> object |
|-------------|-----------------------------------------------------------------------|

---

## Description

Create a scatter plot visualisation from a <summarised\_result> object

## Usage

```
scatterPlot(
  result,
  x,
  y,
  line,
  point,
  ribbon,
  ymin = NULL,
  ymax = NULL,
  facet = NULL,
  colour = NULL,
  style = NULL,
  type = NULL,
  group = colour,
  label = character()
)
```

## Arguments

|        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| result | A <summarised_result> object.                                                                                                                                                                                                                                                                                                                                                                                              |
| x      | Column or estimate name that is used as x variable.                                                                                                                                                                                                                                                                                                                                                                        |
| y      | Column or estimate name that is used as y variable.                                                                                                                                                                                                                                                                                                                                                                        |
| line   | Whether to plot a line using geom_line.                                                                                                                                                                                                                                                                                                                                                                                    |
| point  | Whether to plot points using geom_point.                                                                                                                                                                                                                                                                                                                                                                                   |
| ribbon | Whether to plot a ribbon using geom_ribbon.                                                                                                                                                                                                                                                                                                                                                                                |
| ymin   | Lower limit of error bars, if provided is plot using geom_errorbar.                                                                                                                                                                                                                                                                                                                                                        |
| ymax   | Upper limit of error bars, if provided is plot using geom_errorbar.                                                                                                                                                                                                                                                                                                                                                        |
| facet  | Variables to facet by, a formula can be provided to specify which variables should be used as rows and which ones as columns.                                                                                                                                                                                                                                                                                              |
| colour | Columns to use to determine the colours.                                                                                                                                                                                                                                                                                                                                                                                   |
| style  | Visual theme to apply. Character, or NULL. If a character, this may be either the name of a built-in style (see plotStyle()), or a path to a .yaml file that defines a custom style. If NULL, the function will use the explicit default style, unless a global style option is set (see setGlobalPlotOptions()), or a _brand.yaml file is present (in that order). Refer to the package vignette on styles to learn more. |

|       |                                                                                                                                                                                                                                                                                                                                      |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type  | Character string indicating the output plot format. See <code>plotType()</code> for the list of supported plot types. If <code>type = NULL</code> , the function will use the global setting defined via <code>setGlobalPlotOptions()</code> (if available); otherwise, a standard <code>ggplot2</code> plot is produced by default. |
| group | Columns to use to determine the group.                                                                                                                                                                                                                                                                                               |
| label | Character vector with the columns to display interactively in <code>plotly</code> .                                                                                                                                                                                                                                                  |

**Value**

A plot object.

**Examples**

```
result <- mockSummarisedResult() |>
  dplyr::filter(variable_name == "age")

scatterPlot(
  result = result,
  x = "cohort_name",
  y = "mean",
  line = TRUE,
  point = TRUE,
  ribbon = FALSE,
  facet = age_group ~ sex)
```

---

`setGlobalPlotOptions`    *Set format options for all subsequent plots*

---

**Description**

Set format options for all subsequent plots unless state a different style in a specific function

**Usage**

```
setGlobalPlotOptions(style = NULL, type = NULL)
```

**Arguments**

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| style | Visual theme to apply. Character, or <code>NULL</code> . If a character, this may be either the name of a built-in style (see <code>plotStyle()</code> ), or a path to a <code>.yaml</code> file that defines a custom style. If <code>NULL</code> , the function will use the explicit default style, unless a global style option is set (see <code>setGlobalPlotOptions()</code> ), or a <code>_brand.yaml</code> file is present (in that order). Refer to the package vignette on styles to learn more. |
| type  | Character string indicating the output plot format. See <code>plotType()</code> for the list of supported plot types. If <code>type = NULL</code> , the function will use the global setting defined via <code>setGlobalPlotOptions()</code> (if available); otherwise, a standard <code>ggplot2</code> plot is produced by default.                                                                                                                                                                         |

---

setGlobalTableOptions *Set format options for all subsequent tables*


---

## Description

Set format options for all subsequent tables unless state a different style in a specific function

## Usage

```
setGlobalTableOptions(style = NULL, type = NULL)
```

## Arguments

- |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| style | <p>Defines the visual formatting of the table. This argument can be provided in one of the following ways:</p> <ol style="list-style-type: none"> <li>1. <b>Pre-defined style:</b> Use the name of a built-in style (e.g., "darwin"). See <code>tableStyle()</code> for available options.</li> <li>2. <b>YAML file path:</b> Provide the path to an existing <code>.yaml</code> file defining a new style.</li> <li>3. <b>List of custom R code:</b> Supply a block of custom R code or a named list describing styles for each table section. This code must be specific to the selected table type. If <code>style = NULL</code>, the function will use global options (see <code>setGlobalTableOptions()</code>) or an existing <code>_brand.yaml</code> file (if found); otherwise, the default style is applied. For more details, see the <i>Styles</i> vignette on the package website.</li> </ol> |
| type  | <p>Character string specifying the desired output table format. See <code>tableType()</code> for supported table types. If <code>type = NULL</code>, global options (set via <code>setGlobalTableOptions()</code>) will be used if available; otherwise, a default 'gt' table is created.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Examples

```
setGlobalTableOptions(style = "darwin", type = "tinytable")
result <- mockSummarisedResult()
result |>
  visOmopTable(
    estimateName = c("N%" = "<count> (<percentage>)",
                     "N" = "<count>",
                     "Mean (SD)" = "<mean> (<sd>)" ),
    header = c("cohort_name"),
    rename = c("Database name" = "cdm_name"),
    groupColumn = strataColumns(result)
  )
# drop global options:
setGlobalTableOptions(style = NULL, type = NULL)
```

---

|              |                                        |
|--------------|----------------------------------------|
| tableColumns | <i>Columns for the table functions</i> |
|--------------|----------------------------------------|

---

**Description**

Names of the columns that can be used in the input arguments for the table functions.

**Usage**

```
tableColumns(result)
```

**Arguments**

`result`            A <summarised\_result> object.

**Value**

A character vector of supported columns for tables.

**Examples**

```
result <- mockSummarisedResult()
tableColumns(result)
```

---

|              |                                                                              |
|--------------|------------------------------------------------------------------------------|
| tableOptions | <i>Additional table formatting options for visOmapTable() and visTable()</i> |
|--------------|------------------------------------------------------------------------------|

---

**Description**

This function provides a list of allowed inputs for the `.option` argument in `visOmapTable()` and `visTable()`, and their corresponding default values.

**Usage**

```
tableOptions()
```

**Value**

A named list of default options for table customisation.

**Examples**

```
tableOptions()
```

---

|            |                                                    |
|------------|----------------------------------------------------|
| tableStyle | <i>Pre-defined styles are available for tables</i> |
|------------|----------------------------------------------------|

---

**Description**

This function provides a list of pre-defined styles for tables that can then be used in the `style` argument of the table functions.

**Usage**

```
tableStyle()
```

**Value**

A character vector indicating the style names.

**Examples**

```
tableStyle()
```

---

|           |                                |
|-----------|--------------------------------|
| tableType | <i>Supported table classes</i> |
|-----------|--------------------------------|

---

**Description**

This function returns the supported table classes that can be used in the `type` argument of `visOmapTable()`, `visTable()`, and `formatTable()` functions.

**Usage**

```
tableType()
```

**Value**

A character vector of supported table types.

**Examples**

```
tableType()
```

---

|              |                                                             |
|--------------|-------------------------------------------------------------|
| themeVisOmop | <i>Apply a pre-defined visOmopResults theme to a ggplot</i> |
|--------------|-------------------------------------------------------------|

---

## Description

Apply a pre-defined visOmopResults theme to a ggplot

## Usage

```
themeVisOmop(style = NULL, fontsizeRef = NULL)
```

## Arguments

|             |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| style       | Visual theme to apply. Character, or NULL. If a character, this may be either the name of a built-in style (see plotStyle()), or a path to a .yaml file that defines a custom style. If NULL, the function will use the explicit default style, unless a global style option is set (see setGlobalPlotOptions()), or a _brand.yaml file is present (in that order). Refer to the package vignette on styles to learn more. |
| fontsizeRef | An integer to use as reference when adjusting label fontsize.                                                                                                                                                                                                                                                                                                                                                              |

## Examples

```
result <- mockSummarisedResult() |> dplyr::filter(variable_name == "age")

barPlot(
  result = result,
  x = "cohort_name",
  y = "mean",
  facet = c("age_group", "sex"),
  colour = "sex") +
  themeVisOmop()
```

---

|              |                                                                    |
|--------------|--------------------------------------------------------------------|
| visOmopTable | <i>Generate a formatted table from a &lt;summarised_result&gt;</i> |
|--------------|--------------------------------------------------------------------|

---

## Description

This function combines the functionalities of formatEstimateValue(), estimateName(), formatHeader(), and formatTable() into a single function specifically for <summarised\_result> objects.

**Usage**

```
visOmopTable(
  result,
  estimateName = character(),
  header = character(),
  settingsColumn = character(),
  groupColumn = character(),
  rename = character(),
  type = NULL,
  hide = character(),
  columnOrder = character(),
  factor = list(),
  style = NULL,
  showMinCellCount = TRUE,
  .options = list()
)
```

**Arguments**

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| result         | A <summarised_result> object.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| estimateName   | A named list of estimate names to join, sorted by computation order. Use <...> to indicate estimate names.                                                                                                                                                                                                                                                                                                                                                                                |
| header         | A vector specifying the elements to include in the header. The order of elements matters, with the first being the topmost header. Elements in header can be: <ul style="list-style-type: none"> <li>Any of the columns returned by <code>tableColumns(result)</code> to create a header for these columns.</li> <li>Any other input to create an overall header.</li> </ul>                                                                                                              |
| settingsColumn | A character vector with the names of settings to include in the table. To see options use <code>settingsColumns(result)</code> .                                                                                                                                                                                                                                                                                                                                                          |
| groupColumn    | Columns to use as group labels, to see options use <code>tableColumns(result)</code> . By default, the name of the new group will be the tidy* column names separated by ";". To specify a custom group name, use a named list such as: <code>list("newGroupName" = c("variable_name", "variable_level"))</code> .<br>*tidy: The tidy format applied to column names replaces "_" with a space and converts to sentence case. Use <code>rename</code> to customise specific column names. |
| rename         | A named vector to customise column names, e.g., <code>c("Database name" = "cdm_name")</code> . The function renames all column names not specified here into a tidy* format.                                                                                                                                                                                                                                                                                                              |
| type           | Character string specifying the desired output table format. See <code>tableType()</code> for supported table types. If <code>type = NULL</code> , global options (set via <code>setGlobalTableOptions()</code> ) will be used if available; otherwise, a default 'gt' table is created.                                                                                                                                                                                                  |
| hide           | Columns to drop from the output table. By default, <code>result_id</code> and <code>estimate_type</code> are always dropped.                                                                                                                                                                                                                                                                                                                                                              |
| columnOrder    | Character vector establishing the position of the columns in the formatted table. Columns in either header, <code>groupColumn</code> , or <code>hide</code> will be ignored.                                                                                                                                                                                                                                                                                                              |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| factor           | A named list where names refer to columns (see available columns in <code>tableColumns()</code> ) and list elements are the level order of that column to arrange the results. The column order in the list will be used for arranging the result.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| style            | Defines the visual formatting of the table. This argument can be provided in one of the following ways: <ol style="list-style-type: none"> <li>1. <b>Pre-defined style:</b> Use the name of a built-in style (e.g., "darwin"). See <code>tableStyle()</code> for available options.</li> <li>2. <b>YAML file path:</b> Provide the path to an existing <code>.yaml</code> file defining a new style.</li> <li>3. <b>List of custom R code:</b> Supply a block of custom R code or a named list describing styles for each table section. This code must be specific to the selected table type. If <code>style = NULL</code>, the function will use global options (see <code>setGlobalTableOptions()</code>) or an existing <code>_brand.yaml</code> file (if found); otherwise, the default style is applied. For more details, see the <i>Styles</i> vignette on the package website.</li> </ol> |
| showMinCellCount | If TRUE, suppressed estimates will be indicated with "<{min_cell_count}", otherwise, the default na defined in <code>.options</code> will be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| .options         | A named list with additional formatting options. <code>visOmopResults::tableOptions()</code> shows allowed arguments and their default values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Value

A formatted table of the class selected in "type" argument.

## Examples

```
result <- mockSummarisedResult()
result |>
  visOmopTable(
    estimateName = c("N%" = "<count> (<percentage>)",
                     "N" = "<count>",
                     "Mean (SD)" = "<mean> (<sd>)" ),
    header = c("cohort_name"),
    rename = c("Database name" = "cdm_name"),
    groupColumn = strataColumns(result)
  )
result |>
  visOmopTable(
    estimateName = c(
      "N%" = "<count> (<percentage>)",
      "N" = "<count>",
      "Mean (SD)" = "<mean> (<sd>)"
    ),
    header = c("cohort_name"),
    rename = c("Database name" = "cdm_name"),
    groupColumn = strataColumns(result),
    type = "reactable"
  )
```

---

|          |                                                             |
|----------|-------------------------------------------------------------|
| visTable | <i>Generate a formatted table from a &lt;data.table&gt;</i> |
|----------|-------------------------------------------------------------|

---

## Description

This function combines the functionalities of `formatEstimateValue()`, `formatEstimateName()`, `formatHeader()`, and `formatTable()` into a single function. While it does not require the input table to be a `<summarised_result>`, it does expect specific fields to apply some formatting functionalities.

## Usage

```
visTable(
  result,
  estimateName = character(),
  header = character(),
  groupColumn = character(),
  rename = character(),
  type = NULL,
  hide = character(),
  style = NULL,
  .options = list()
)
```

## Arguments

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>result</code>       | A table to format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <code>estimateName</code> | A named list of estimate names to join, sorted by computation order. Use <code>&lt;...&gt;</code> to indicate estimate names.                                                                                                                                                                                                                                                                                                                                                             |
| <code>header</code>       | A vector specifying the elements to include in the header. The order of elements matters, with the first being the topmost header. The vector elements can be column names or labels for overall headers. The table must contain an <code>estimate_value</code> column to pivot the headers.                                                                                                                                                                                              |
| <code>groupColumn</code>  | Columns to use as group labels, to see options use <code>tableColumns(result)</code> . By default, the name of the new group will be the tidy* column names separated by ";". To specify a custom group name, use a named list such as: <code>list("newGroupName" = c("variable_name", "variable_level"))</code> .<br>*tidy: The tidy format applied to column names replaces "_" with a space and converts to sentence case. Use <code>rename</code> to customise specific column names. |
| <code>rename</code>       | A named vector to customise column names, e.g., <code>c("Database name" = "cdm_name")</code> . The function renames all column names not specified here into a tidy* format.                                                                                                                                                                                                                                                                                                              |
| <code>type</code>         | Character string specifying the desired output table format. See <code>tableType()</code> for supported table types. If <code>type = NULL</code> , global options (set via <code>setGlobalTableOptions()</code> ) will be used if available; otherwise, a default 'gt' table is created.                                                                                                                                                                                                  |
| <code>hide</code>         | Columns to drop from the output table.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| style    | <p>Defines the visual formatting of the table. This argument can be provided in one of the following ways:</p> <ol style="list-style-type: none"> <li>1. <b>Pre-defined style:</b> Use the name of a built-in style (e.g., "darwin"). See <code>tableStyle()</code> for available options.</li> <li>2. <b>YAML file path:</b> Provide the path to an existing <code>.yaml</code> file defining a new style.</li> <li>3. <b>List of custom R code:</b> Supply a block of custom R code or a named list describing styles for each table section. This code must be specific to the selected table type. If <code>style = NULL</code>, the function will use global options (see <code>setGlobalTableOptions()</code>) or an existing <code>_brand.yaml</code> file (if found); otherwise, the default style is applied. For more details, see the <i>Styles</i> vignette on the package website.</li> </ol> |
| .options | A named list with additional formatting options. <code>visOmapResults::tableOptions()</code> shows allowed arguments and their default values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### Value

A formatted table of the class selected in "type" argument.

### Examples

```
result <- mockSummarisedResult()
result |>
  visTable(
    estimateName = c("N%" = "<count> (<percentage>)",
                     "N" = "<count>",
                     "Mean (SD)" = "<mean> (<sd>)"),
    header = c("Estimate"),
    rename = c("Database name" = "cdm_name"),
    groupColumn = c("strata_name", "strata_level"),
    hide = c("additional_name", "additional_level", "estimate_type", "result_type")
  )
```

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