

Package: oysttr (via r-universe)

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Version 0.0.0.9000

Title Handle Personal Oyster Journey History Data Provided by Transport for London

Description You can opt-in to monthly emails from Transport for London (TfL) that have your Oyster journey history attached as a CSV. Functions in this small package help you read, wrangle and summarise these data. I, and this work, are unaffiliated with Transport for London (TfL).

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URL <https://github.com/matt-dray/oysttr/>,
<https://matt-dray.github.io/oysttr/>

BugReports <https://github.com/matt-dray/oysttr/issues>

Encoding UTF-8

LazyData true

ByteCompile true

RoxygenNote 7.0.2

Depends R (>= 2.10)

Suggests covr, knitr, rmarkdown, testthat (>= 2.1.0)

VignetteBuilder knitr

Repository <https://matt-dray.r-universe.dev>

RemoteUrl <https://github.com/matt-dray/oysttr>

RemoteRef HEAD

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|----------------|--|
| journeys_clean | <i>Example Oyster Journey History File (Cleaned)</i> |
|----------------|--|

Description

An anonymised example of a single month's journey history data received originally as a CSV from Transport for London, read with `oy_read()` and cleaned with `oy_clean()`.

Usage

```
data(journeys_clean)
```

Format

An object of class "data.frame".

Source

Data generated and received originally from ([Transport for London](#)).

Examples

```
data(journeys_clean)
```

| | |
|---------------|--|
| journeys_read | <i>Example Oyster Journey History File (Read In)</i> |
|---------------|--|

Description

An anonymised example of a single month's journey history data received originally as a CSV from Transport for London and read with `oy_read()`.

Usage

```
data(journeys_read)
```

Format

An object of class data.frame.

Source

Data generated and received originally from ([Transport for London](#)).

Examples

```
data(journeys_read)
```

| | |
|----------|--|
| oy_clean | <i>Clean Oyster journey history data</i> |
|----------|--|

Description

Process a data.frame object containing Oyster journey history data. Could be a raw file as received by email from Transport for London or the output from oy_read().

Usage

```
oy_clean(x)
```

Arguments

x A data.frame object containing Oyster journey history.

Value

A data.frame object with 13 columns and as many rows as journeys.

Examples

```
## Not run:  
my_df <- oy_read("path/to/folder/")  
my_df_clean <- oy_clean(my_df)  
  
## End(Not run)
```

`oy_cols`*Transport for London Colours*

Description

A named vector of hexadecimal colour values from Transport for London's **colour standard**. Includes corporate, mode-specific and safety colours, as well as London Underground line colours.

Usage

```
oy_cols(...)
```

Arguments

... Provide either the names or indices of colours in the vector (see details).

Details

An empty call returns the whole vector. The colour names are as follows:

- corporate: `corporate_blue`, `corporate_red`, `corporate_grey`, `corporate_dark_grey`, `corporate_yellow`, `corporate_green`, `corporate_black`, `corporate_white`
- mode-specific: `transport_for_london`, `line_elizabeth`, `london_overground`, `emirates_air_line`, `santander_cycles`, `london_river_services`, `london_underground`, `london_buses`, `london_dial_a_ride`, `taxi_private_hire`, `visitor_centre`, `london_coaches`, `docklands_light_railway`, `tfl_rail`
- safety: `safety_blue`, `corporate_red`, `corporate_yellow`, `corporate_green`
- London Underground lines: `line_bakerloo`, `line_hammersmith_city`, `line_piccadilly`, `line_central`, `line_jubilee`, `line_victoria`, `line_circle`, `line_metropolitan`, `line_waterloo_city`, `line_district`, `line_northern`
- other logos and identities: `oyster_blue`, `oyster_cyan`, `legible_london_blue`, `legible_london_yellow`

Value

A named vector object.

Examples

```
oy_cols() # return full named vector
oy_cols("oyster_blue", "oyster_cyan") # return named values
oy_cols(1:5) # return first five elements
```

Description

Outputs a simple time series line plot of Oyster journey data that's been cleaned with [oy_clean](#).

Usage

```
oy_lineplot(  
  data,  
  x_var = "datetime_start",  
  y_var = "journey_duration",  
  weekdays = FALSE,  
  mode = "Train"  
)
```

Arguments

| | |
|----------|---|
| data | data.frame of Oyster journey history data cleaned using oy_clean() . |
| x_var | The name of the variable from data that you want on the x axis. This is restricted currently to datetime_start. |
| y_var | The name of the continuous variable from data for the y axis. Choose "journey_duration" or "balance". |
| weekdays | Logical. FALSE returns data for all days of the week. Restrict the output to Monday to Friday with TRUE. |
| mode | Currently restricted to "Train". |

Value

A plot.

Examples

```
## Not run:  
my_df <- oy_read("path/to/folder/")  
my_df_clean <- oy_clean(my_df)  
oy_lineplot(my_df_clean, y_var = "Balance", weekdays = FALSE)  
  
## End(Not run)
```

| | |
|---------|--|
| oy_read | <i>Read Oyster Journey History Files</i> |
|---------|--|

Description

Read one or more Oyster journey history files from a single folder and combine them. Assumes journey histories are raw CSV files as received by email from Transport for London. Ignores files that are not identified as Oyster history journey files.

Usage

```
oy_read(path)
```

Arguments

path A string describing a filepath to a folder of Oyster journey history CSV files.

Value

A data.frame object with 8 columns and as many rows as journeys.

Examples

```
## Not run:  
my_df <- oy_read("path/to/folder/")  
  
## End(Not run)
```

| | |
|------------|---|
| oy_summary | <i>Simple Summary Statistics of Oyster Journeys</i> |
|------------|---|

Description

Generate simple summaries of your Oyster journey history data for a quick overview.

Usage

```
oy_summary(data, mode = "Train")
```

Arguments

data Data frame output from link{oy_clean()}.
mode Currently restricted to "Train".

Value

A list object where each element is some kind of data summary.

Examples

```
## Not run:  
my_df <- oy_read("path/to/folder/")  
my_df_clean <- oy_clean(my_df)  
oy_summary(my_df_clean, mode = "Train")  
  
## End(Not run)
```

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