Package: qatarcars (via r-universe)

May 14, 2026

Type Package

Title Data on Cars in Qatar

Version 1.1.0

Date 2026-02-12

Description Fuel economy, size, performance, and price data for cars in Qatar in 2025. Mirrors many of the columns in mtcars, but uses (1) non-US-centric makes and models, (2) 2025 prices, and (3) metric measurements, making it more appropriate for use as an example dataset outside the United States. For more details see Musgrave (2025) <doi:10.1080/15512169.2025.2572320>.

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Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3.9000

Depends R (>= 4.1.0)

URL https://profmusgrave.github.io/qatarcars/, https://github.com/profmusgrave/qatarcars

BugReports https://github.com/profmusgrave/qatarcars/issues

Suggests altdoc, downlit, dplyr, ggplot2, scales, testthat (>= 3.0.0), tibble, units, xml2

Config/testthat/edition 3

Repository https://profmusgrave.r-universe.dev

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RemoteUrl https://github.com/profmusgrave/qatarcars

RemoteRef HEAD

RemoteSha c44439540dc4afa3cec4679e73f231b9da9fe9d1

Contents

`currency_conversion` *Convert between QAR, USD, and EUR*

Description

Functions to convert between Qatari Riyals (QAR), US Dollars (USD), and Euros (EUR) using exchange rates from the time of data collection in January 2025.

Usage

```
qar_to_usd(qar)

qar_to_eur(qar)

usd_to_qar(usd)

usd_to_eur(usd)

eur_to_qar(eur)

eur_to_usd(eur)
```

Arguments

`qar`	numeric vector of values in Qatari Riyals
`usd`	numeric vector of values in US Dollars
`eur`	numeric vector of values in Euros

Details

Exchange rates in January 2025:

- 1 USD = 3.64 QAR
- 1 EUR = 4.15 QAR

Value

Numeric vector of converted currency amounts

Examples

```
qar_to_usd(100)
usd_to_eur(50)
eur_to_qar(25)

qatarcars$price_eur <- qar_to_eur(qatarcars$price)
qatarcars$price_usd <- qar_to_usd(qatarcars$price)
qatarcars[, c("origin", "make", "model", "price", "price_eur", "price_usd")]

# Labels are updated automatically
str(qatarcars$price)
str(qatarcars$price_eur)
str(qatarcars$price_usd)

if (require("dplyr")) {
  qatarcars |>
    mutate(
      price_eur = qar_to_eur(price),
      price_usd = qar_to_usd(price)
    ) |>
    select(origin, make, model, starts_with("price"))
}
```

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qatar_maroon *Qatar maroon color*

Description

The official colors of the Qatari flag are white and Pantone 1955 C, or "Qatar maroon." The hex representation of this color is `#8A1538`.

Usage

```
qatar_maroon
```

Format

A character string containing a hex color code.

Source

https://en.wikipedia.org/wiki/Flag_of_Qatar

Examples

```
qatar_maroon

hist(qatarcars$length, breaks = 15, col = qatar_maroon, border = "white")
```

```
if (require("ggplot2")) {
  ggplot(qatarcars, aes(x = length)) +
    geom_histogram(bins = 15, fill = qatar_maroon, color = "white")
}
```

`qatarcars` *Fuel economy, size, performance, and price data for cars in Qatar*

Description

Includes prices and other specifications taken from YallaMotors Qatar between January to August 2025

Usage

```
qatarcars
```

Format

A tibble with 105 rows and 15 variables:

origin a factor denoting car country of origin

make a factor denoting car make

model a factor denoting car model

length a number denoting car length (meters)

width a number denoting car width (meters)

height a number denoting car height (meters)

seating a number denoting number of seats in car

trunk a number denoting volume of trunk (liters)

economy a number denoting car fuel economy (L/100km)

horsepower a number denoting car horsepower

price a number denoting car price (2025 Qatari riyals (QAR))

mass a number denoting car mass (kilograms)

performance a number denoting car performance (Time 0-100 km/h (seconds))

type a factor denoting car type

enginetype a factor denoting car engine type

Source

https://github.com/profmusgrave/qatarcars

https://open.substack.com/pub/musgrave/p/introducing-the-qatar-cars-dataset

Yalla Motors Qatar

Examples

```
str(qatarcars)
head(qatarcars)
summary(qatarcars)
table(qatarcars$origin)
aggregate(price ~ enginetype, qatarcars, mean)
barplot(table(factor(
  qatarcars$seating,
  levels = min(qatarcars$seating):max(qatarcars$seating)
)))
plot(economy ~ mass, qatarcars)
plot(price ~ performance, qatarcars, log = "y")

if (require("dplyr")) {
  glimpse(qatarcars)
}

if (require("dplyr")) {
  qatarcars |>
    count(origin)
}

if (require("dplyr")) {
  qatarcars |>
    group_by(enginetype) |>
    summarize(avg_price = mean(price))
}

if (require("ggplot2")) {
  ggplot(qatarcars, aes(x = seating)) +
    geom_bar()
}

if (require("ggplot2")) {
  ggplot(qatarcars, aes(x = mass, y = economy)) +
    geom_point()
}

if (require("ggplot2")) {
  ggplot(qatarcars, aes(x = performance, y = price)) +
    geom_point() +
    scale_y_log10()
}
```

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