

Table 1 Examples with Built-in R Datasets

zztable1_nextgen

2025-09-07

Contents

| | |
|----------------------------------------|---|
| Introduction | 1 |
| Dataset Examples | 1 |
| 1. Motor Trend Car Road Tests (mtcars) | 1 |

Introduction

This vignette demonstrates the versatility of `zztable1_nextgen` using various built-in R datasets. We'll explore different argument combinations and show how the package handles different types of variables and data structures commonly encountered in statistical analysis.

Dataset Examples

1. Motor Trend Car Road Tests (mtcars)

The `mtcars` dataset is perfect for demonstrating automotive performance comparisons.

```
# Prepare mtcars with meaningful factor variables
data(mtcars)
mtcars$transmission <- factor(
  ifelse(mtcars$am == 1, "Manual", "Automatic"),
  levels = c("Automatic", "Manual")
)
mtcars$engine_shape <- factor(
  ifelse(mtcars$vs == 1, "V-shaped", "Straight"),
  levels = c("Straight", "V-shaped")
)
mtcars$cylinders <- factor(mtcars$cyl)

knitr::kable(head(mtcars[, c("mpg", "hp", "wt", "transmission", "engine_shape", "cylinders")]),
  caption = "Sample of mtcars data with prepared variables")
```

Table 1: Sample of mtcars data with prepared variables

| | mpg | hp | wt | transmission | engine_shape | cylinders |
|----------------|------|-----|-------|--------------|--------------|-----------|
| Mazda RX4 | 21.0 | 110 | 2.620 | Manual | Straight | 6 |
| Mazda RX4 Wag | 21.0 | 110 | 2.875 | Manual | Straight | 6 |
| Datsun 710 | 22.8 | 93 | 2.320 | Manual | V-shaped | 4 |
| Hornet 4 Drive | 21.4 | 110 | 3.215 | Automatic | V-shaped | 6 |

| | mpg | hp | wt | transmission | engine_shape | cylinders |
|-------------------|------|-----|-------|--------------|--------------|-----------|
| Hornet Sportabout | 18.7 | 175 | 3.440 | Automatic | Straight | 8 |
| Valiant | 18.1 | 105 | 3.460 | Automatic | V-shaped | 6 |

Basic Table by Transmission Type

```
# Basic table comparing car characteristics by transmission type
create_table(
  formula = transmission ~ mpg + hp + wt + qsec,
  data = mtcars,
  theme = "nejm"
)
```

variables

Automatic

Manual

p.value

mpg

17.1 ± 3.8

24.4 ± 6.2

3e-04

hp

160.3 ± 53.9

126.8 ± 84.1

0.1798

wt

3.8 ± 0.8

2.4 ± 0.6

0

qsec

18.2 ± 1.8

17.4 ± 1.8

0.2057