

Table 1 Examples with Built-in R Datasets

zztable1_nextgen

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Contents

Introduction	1
Dataset Examples	1
1. Motor Trend Car Road Tests (<code>mtcars</code>)	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