

Comprehensive Theme Showcase: Table 1 Examples with Built-in R Datasets

zztable1_nextgen

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Table 1: Available Themes in `zztable1nextgen`

Theme	Description
console	Console - Basic monospace output for development
nejm	NEJM - New England Journal of Medicine styling with authentic cream striping
lancet	Lancet - Clean minimal formatting matching The Lancet
jama	JAMA - Journal of American Medical Association styling
simple	Simple - Clean general-purpose theme for reports

1 Introduction

This comprehensive vignette showcases **all available themes** in `zztable1_nextgen` using carefully selected built-in R datasets. Each theme is designed to match specific publication standards, from medical journals to general statistical reports.

1.1 Available Themes

The package includes **5** built-in themes:

Each theme will be demonstrated using the same dataset to clearly show the formatting differences.

2 Theme Showcase: Motor Trend Car Dataset

We'll use the `mtcars` dataset to demonstrate all themes with identical data and parameters. This allows for direct comparison of theme formatting while maintaining consistent content.

2.1 Dataset Preparation

```
# 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)

# Show sample data
knitr::kable(head(mtcars[, c("mpg", "hp", "wt", "transmission", "engine_shape", "cylinders")]),
  caption = "Sample of prepared mtcars data") %>%
  kableExtra::kable_styling(bootstrap_options = c("striped", "hover", "condensed"),
    full_width = FALSE)
```

Table 2: Sample of prepared mtcars data

	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
Hornet Sportabout	18.7	175	3.440	Automatic	Straight	8
Valiant	18.1	105	3.460	Automatic	V-shaped	6

2.2 Complete Theme Showcase

Each theme below displays the same analysis (transmission type vs. car characteristics) to highlight formatting differences:

2.2.1 Console Theme - Basic Analysis

Simple comparison without p-values or totals

```
create_table(
  formula = transmission ~ mpg + hp + wt + cylinders,
  data = mtcars,
  pvalue = FALSE,
  totals = FALSE,
  missing = FALSE,
  theme = "console"
)
```

variables	Automatic	Manual
mpg	17.1 (3.8)	24.4 (6.2)
hp	160.3 (53.9)	126.8 (84.1)
wt	3.8 (0.8)	2.4 (0.6)
cylinders		
4	3 (16%)	8 (62%)
6	4 (21%)	3 (23%)
8	12 (63%)	2 (15%)

2.2.2 NEJM Theme - Clinical Trial Style with Stratification

Stratified analysis by engine shape with missing values shown

```
# Add some missing values for demonstration
mtcars_missing <- mtcars
mtcars_missing$mpg[c(1,5,10)] <- NA
mtcars_missing$hp[c(3,7,15)] <- NA

create_table(
  formula = transmission ~ mpg + hp + wt,
  data = mtcars_missing,
  strata = "engine_shape",
  pvalue = TRUE,
  totals = TRUE,
  missing = TRUE,
  theme = "nejm"
)
```

% NEJM theme colors and formatting

variables	Automatic	Manual	Total	p.value
Engine_shape: Straight				
mpg	14.7 ± 2.6	19.5 ± 4.4	16.2 ± 3.9	4e-04
hp	188 ± 31.9	180.8 ± 98.8	185.3 ± 62.3	0.3796
wt	4.1 ± 0.8	2.9 ± 0.5	3.7 ± 0.9	0
Engine_shape: V-shaped				
mpg	21 ± 2.6	28.4 ± 4.8	25 ± 5.4	4e-04
hp	102.1 ± 20.9	78.5 ± 25.8	91.2 ± 25.4	0.3796
wt	3.2 ± 0.3	2 ± 0.4	2.6 ± 0.7	0

2.2.3 3. Lancet Theme - Multi-center Trial Format

Stratified by cylinder count with comprehensive statistics

```
create_table(
  formula = transmission ~ mpg + hp + wt + engine_shape,
  data = mtcars,
  strata = "cylinders",
  pvalue = TRUE,
  totals = TRUE,
  missing = FALSE,
  theme = "lancet"
)
```

% Lancet theme formatting

variables	Automatic	Manual	Total	p.value
Cylinders: 6				
mpg	19.1 (1.6)	20.6 (0.8)	19.7 (1.5)	3e-04
hp	115.2 (9.2)	131.7 (37.5)	122.3 (24.3)	0.1798
wt	3.4 (0.1)	2.8 (0.1)	3.1 (0.4)	0
engine_shape				
Straight	0 (0%)	3 (100%)	3 (9%)	0.4727
V-shaped	4 (100%)	0 (0%)	4 (12%)	
Cylinders: 4				
mpg	22.9 (1.5)	28.1 (4.5)	26.7 (4.5)	3e-04
hp	84.7 (19.7)	81.9 (22.7)	82.6 (20.9)	0.1798
wt	2.9 (0.4)	2 (0.4)	2.3 (0.6)	0
engine_shape				
Straight	0 (0%)	1 (12.5%)	1 (3%)	0.4727
V-shaped	3 (100%)	7 (87.5%)	10 (31%)	
Cylinders: 8				
mpg	15.1 (2.8)	15.4 (0.6)	15.1 (2.6)	3e-04
hp	194.2 (33.4)	299.5 (50.2)	209.2 (51)	0.1798
wt	4.1 (0.8)	3.4 (0.3)	4 (0.8)	0
engine_shape				
Straight	12 (100%)	2 (100%)	14 (44%)	0.4727
V-shaped	0 (0%)	0 (0%)	0 (0%)	

2.2.4 4. JAMA Theme (Journal of American Medical Association)

Professional medical journal styling with lettered footnotes

```
create_table(  
  formula = transmission ~ mpg + hp + wt + cylinders,  
  data = mtcars_missing,  
  pvalue = TRUE,  
  totals = TRUE,  
  missing = TRUE,  
  theme = "jama"  
)
```

% JAMA theme formatting

variables	Automatic	Manual	Total	p.value
mpg	16.9 (4)	24.7 (6.4)	20.1 (6.3)	4e-04
hp	152.6 (51.3)	129.7 (87.2)	143.1 (68)	0.3796
wt	3.8 (0.8)	2.4 (0.6)	3.2 (1)	0
cylinders				
4	3 (16%)	8 (62%)	11 (34%)	0.0091
6	4 (21%)	3 (23%)	7 (22%)	
8	12 (63%)	2 (15%)	14 (44%)	

2.2.5 5. Simple Theme - Descriptive with Footnotes

Descriptive statistics with custom footnotes demonstration

```
# Create footnotes for the analysis (using proper structure)  
analysis_footnotes <- list(  
  variables = list(  
    mpg = "Miles per gallon measured at highway speeds",  
    hp = "Horsepower measured at peak engine performance",  
    wt = "Weight includes vehicle and standard equipment"  
  ),  
  general = "Data from 1974 Motor Trend magazine"  
)  
  
create_table(  
  formula = transmission ~ mpg + hp + wt + cylinders,  
  data = mtcars,  
  pvalue = FALSE,  
  totals = TRUE,  
  missing = FALSE,  
  footnotes = analysis_footnotes,  
  theme = "simple"  
)
```

variables	Automatic	Manual	Total
mpg ¹	17.15 (3.83)	24.39 (6.17)	20.09 (6.03)
hp ²	160.26 (53.91)	126.85 (84.06)	146.69 (68.56)
wt ³	3.77 (0.78)	2.41 (0.62)	3.22 (0.98)
cylinders			
4	3 (16%)	8 (62%)	11 (34%)
6	4 (21%)	3 (23%)	7 (22%)
8	12 (63%)	2 (15%)	14 (44%)

¹ Miles per gallon measured at highway speeds

² Horsepower measured at peak engine performance

³ Weight includes vehicle and standard equipment

• Data from 1974 Motor Trend magazine

3 Additional Dataset Examples

3.1 Iris Dataset: Biological Measurements

The classic iris dataset demonstrates how themes handle multiple factor levels and continuous measurements.

```
data(iris)
knitr::kable(head(iris[, c("Species", "Sepal.Length", "Sepal.Width", "Petal.Length", "Petal.Width")]),
  caption = "Sample of iris data - Species comparison") %>%
  kableExtra::kable_styling(bootstrap_options = c("striped", "hover", "condensed"),
    full_width = FALSE)
```

Table 3: Sample of iris data - Species comparison

Species	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width
setosa	5.1	3.5	1.4	0.2
setosa	4.9	3.0	1.4	0.2
setosa	4.7	3.2	1.3	0.2
setosa	4.6	3.1	1.5	0.2
setosa	5.0	3.6	1.4	0.2
setosa	5.4	3.9	1.7	0.4

3.1.1 Medical Journal Theme Comparison: Iris Species Analysis

3.1.2 NEJM Theme - Multi-group Analysis

```
# Demonstrate footnotes with NEJM theme (uses numbered footnotes)
nejm_footnotes <- list(
  general = c(
    "Data from Anderson's iris dataset (1935)",
    "Measurements standardized to nearest 0.1 cm",
    "Statistical significance tested at alpha = 0.05"
  )
)

create_table(
  formula = Species ~ Sepal.Length + Sepal.Width + Petal.Length + Petal.Width,
  data = iris,
  pvalue = TRUE,
```

```

totals = TRUE,
footnotes = nejm_footnotes,
theme = "nejm"
)

```

% NEJM theme colors and formatting

variables	setosa	versicolor	virginica	Total	p.value
Sepal.Length	5 ± 0.4	5.9 ± 0.5	6.6 ± 0.6	5.8 ± 0.8	0
Sepal.Width	3.4 ± 0.4	2.8 ± 0.3	3 ± 0.3	3.1 ± 0.4	0
Petal.Length	1.5 ± 0.2	4.3 ± 0.5	5.6 ± 0.6	3.8 ± 1.8	0
Petal.Width	0.2 ± 0.1	1.3 ± 0.2	2 ± 0.3	1.2 ± 0.8	0

- Data from Anderson's iris dataset (1935)
- Measurements standardized to nearest 0.1 cm
- Statistical significance tested at alpha = 0.05

3.1.3 JAMA Theme - Multi-group Analysis

```

# Demonstrate footnotes with JAMA theme (uses lettered footnotes)
iris_footnotes <- list(
  general = c(
    "Measurements taken from dried specimens",
    "All measurements in centimeters",
    "P-values from one-way ANOVA across species"
  )
)

create_table(
  formula = Species ~ Sepal.Length + Sepal.Width + Petal.Length + Petal.Width,
  data = iris,
  pvalue = TRUE,
  totals = TRUE,
  footnotes = iris_footnotes,
  theme = "jama"
)

```

% JAMA theme formatting

variables	setosa	versicolor	virginica	Total	p.value
Sepal.Length	5 (0.4)	5.9 (0.5)	6.6 (0.6)	5.8 (0.8)	0
Sepal.Width	3.4 (0.4)	2.8 (0.3)	3 (0.3)	3.1 (0.4)	0
Petal.Length	1.5 (0.2)	4.3 (0.5)	5.6 (0.6)	3.8 (1.8)	0
Petal.Width	0.2 (0.1)	1.3 (0.2)	2 (0.3)	1.2 (0.8)	0

- Measurements taken from dried specimens
- All measurements in centimeters
- P-values from one-way ANOVA across species

3.2 Sleep Data: Clinical Trial Example

Student's sleep data demonstrating clinical trial-style reporting across different themes.

```

data(sleep)
sleep$group <- factor(sleep$group, labels = c("Drug 1", "Drug 2"))

```

```
# Add simulated baseline characteristics for better demonstration
set.seed(456)
sleep$age <- round(rnorm(nrow(sleep), 25, 3))
sleep$sex <- factor(sample(c("Male", "Female"), nrow(sleep), replace = TRUE))

knitr::kable(head(sleep), caption = "Sleep study data with simulated demographics") %>%
  kableExtra::kable_styling(bootstrap_options = c("striped", "hover", "condensed"),
    full_width = FALSE)
```

Table 4: Sleep study data with simulated demographics

extra	group	ID	age	sex
0.7	Drug 1	1	21	Female
-1.6	Drug 1	2	27	Female
-0.2	Drug 1	3	27	Female
-1.2	Drug 1	4	21	Male
-0.1	Drug 1	5	23	Male
3.4	Drug 1	6	24	Female

3.2.1 Clinical Theme Comparison: Sleep Study

3.2.2 Lancet Theme - Clinical Trial Format

```
create_table(
  formula = group ~ extra + age + sex,
  data = sleep,
  pvalue = TRUE,
  totals = TRUE,
  theme = "lancet"
)
```

% Lancet theme formatting

variables	Drug 1	Drug 2	Total	p.value
extra	0.8 (1.8)	2.3 (2)	1.5 (2)	0.0792
age	25.1 (2.6)	27.9 (3.8)	26.5 (3.5)	0.0698
sex				
Female	7 (70%)	6 (60%)	13 (65%)	1
Male	3 (30%)	4 (40%)	7 (35%)	

3.2.3 Simple Theme - Report Format

```
create_table(
  formula = group ~ extra + age + sex,
  data = sleep,
  pvalue = TRUE,
  totals = TRUE,
  theme = "simple"
)
```


variables	Drug 1	Drug 2	Total	p.value
extra	0.75 (1.79)	2.33 (2)	1.54 (2.02)	0.0792
age	25.1 (2.64)	27.9 (3.75)	26.5 (3.47)	0.0698
sex				
Female	7 (70%)	6 (60%)	13 (65%)	1
Male	3 (30%)	4 (40%)	7 (35%)	

3.3 4. Plant Growth Data (PlantGrowth)

Experimental data comparing plant weights under different conditions.

```
data(PlantGrowth)
knitr::kable(head(PlantGrowth), caption = "Sample of PlantGrowth data")
```

Table 5: Sample of PlantGrowth data

weight	group
4.17	ctrl
5.58	ctrl
5.18	ctrl
6.11	ctrl
4.50	ctrl
4.61	ctrl

```
# Simple treatment comparison
create_table(
  formula = group ~ weight,
  data = PlantGrowth,
  pvalue = TRUE,
  totals = TRUE,
  theme = "console"
)
```

variables	ctrl	trt1	trt2	Total	p.value
weight	5 (0.6)	4.7 (0.8)	5.5 (0.4)	5.1 (0.7)	0.1944

3.4 5. Tooth Growth Data (ToothGrowth)

Guinea pig tooth growth under different vitamin C treatments.

```
data(ToothGrowth)
ToothGrowth$dose <- factor(ToothGrowth$dose)
knitr::kable(head(ToothGrowth), caption = "Sample of ToothGrowth data")
```

Table 6: Sample of ToothGrowth data

len	supp	dose
4.2	VC	0.5
11.5	VC	0.5
7.3	VC	0.5
5.8	VC	0.5
6.4	VC	0.5

len	supp	dose
10.0	VC	0.5

```
# Demonstrate footnotes with clinical research context
clinical_footnotes <- list(
  variables = list(
    supp = "VC = Vitamin C supplement (ascorbic acid); OJ = Orange juice as natural vitamin C source",
    len = "Tooth length measured in microns",
    dose = "Dose levels: 0.5, 1.0, and 2.0 mg/day"
  ),
  general = "Guinea pig tooth growth study (Crampton, 1947)"
)

# Compare by supplement type with footnotes
create_table(
  formula = supp ~ len + dose,
  data = ToothGrowth,
  pvalue = TRUE,
  totals = TRUE,
  footnotes = clinical_footnotes,
  theme = "jama"
)
```

% JAMA theme formatting

variables	OJ	VC	Total	p.value
len ¹	20.7 (6.6)	17 (8.3)	18.8 (7.6)	0.0604
dose ²				
0.5	10 (33%)	10 (33%)	20 (33%)	1
1	10 (33%)	10 (33%)	20 (33%)	
2	10 (33%)	10 (33%)	20 (33%)	

¹ Tooth length measured in microns

² Dose levels: 0.5, 1.0, and 2.0 mg/day

• Guinea pig tooth growth study (Crampton, 1947)

3.4.1 Analysis by Dose

```
# Analysis with dose as grouping variable
create_table(
  formula = dose ~ len,
  data = ToothGrowth,
  pvalue = TRUE,
  theme = "lancet"
)
```

% Lancet theme formatting

variables	0.5	1	2	p.value
len	10.6 (4.5)	19.7 (4.4)	26.1 (3.8)	0

3.5 6. Chickwts Data (Chicken Weights)

Chicken weights by different feed types.

```
data(chickwts)
knitr::kable(head(chickwts), caption = "Sample of chickwts data")
```

Table 7: Sample of chickwts data

weight	feed
179	horsebean
160	horsebean
136	horsebean
227	horsebean
217	horsebean
168	horsebean

```
create_table(
  formula = feed ~ weight,
  data = chickwts,
  pvalue = TRUE,
  totals = TRUE,
  theme = "console"
)
```

variables	casein	horsebean	linseed	meatmeal	soybean	sunflower	Total	p.value
weight	323.6 (64.4)	160.2 (38.6)	218.8 (52.2)	276.9 (64.9)	246.4 (54.1)	328.9 (48.8)	261.3 (78.1)	0

3.6 7. Built-in Dataset with Missing Values (airquality)

Environmental data with naturally occurring missing values.

```
data(airquality)
airquality$Month <- factor(
  month.name[airquality$Month],
  levels = month.name[5:9] # May through September
)
knitr::kable(head(airquality), caption = "Sample of airquality data")
```

Table 8: Sample of airquality data

Ozone	Solar.R	Wind	Temp	Month	Day
41	190	7.4	67	May	1
36	118	8.0	72	May	2
12	149	12.6	74	May	3
18	313	11.5	62	May	4
NA	NA	14.3	56	May	5
28	NA	14.9	66	May	6

```
# Show how missing values are handled
create_table(
  formula = Month ~ Ozone + Solar.R + Wind + Temp,
```

```

data = airquality,
pvalue = TRUE,
totals = TRUE,
theme = "nejm"
)

```

% NEJM theme colors and formatting

variables	May	June	July	August	September	Total	p.value
Ozone	23.6 ± 22.2	29.4 ± 18.2	59.1 ± 31.6	60 ± 39.7	31.4 ± 24.1	42.1 ± 33	0.6088
Solar.R	181.3 ± 115.1	190.2 ± 92.9	216.5 ± 80.6	171.9 ± 76.8	167.4 ± 79.1	185.9 ± 90.1	0.7093
Wind	11.6 ± 3.5	10.3 ± 3.8	8.9 ± 3	8.8 ± 3.2	10.2 ± 3.5	10 ± 3.5	0.1228
Temp	65.5 ± 6.9	79.1 ± 6.6	83.9 ± 4.3	84 ± 6.6	76.9 ± 8.4	77.9 ± 9.5	0

4 Theme Comparison

Let's demonstrate the different medical journal themes side by side:

4.1 Console Theme (Default)

```

create_table(
  formula = transmission ~ mpg + hp + wt,
  data = mtcars,
  pvalue = TRUE,
  totals = TRUE,
  theme = "console"
)

```

variables	Automatic	Manual	Total	p.value
mpg	17.1 (3.8)	24.4 (6.2)	20.1 (6)	3e-04
hp	160.3 (53.9)	126.8 (84.1)	146.7 (68.6)	0.1798
wt	3.8 (0.8)	2.4 (0.6)	3.2 (1)	0

4.2 NEJM Theme (with striping)

```

create_table(
  formula = transmission ~ mpg + hp + wt,
  data = mtcars,
  pvalue = TRUE,
  totals = TRUE,
  theme = "nejm"
)

```

% NEJM theme colors and formatting

variables	Automatic	Manual	Total	p.value
mpg	17.1 ± 3.8	24.4 ± 6.2	20.1 ± 6	3e-04
hp	160.3 ± 53.9	126.8 ± 84.1	146.7 ± 68.6	0.1798
wt	3.8 ± 0.8	2.4 ± 0.6	3.2 ± 1	0

4.3 Lancet Theme (clean minimal)

```
create_table(  
  formula = transmission ~ mpg + hp + wt,  
  data = mtcars,  
  pvalue = TRUE,  
  totals = TRUE,  
  theme = "lancet"  
)
```

% Lancet theme formatting

variables	Automatic	Manual	Total	p.value
mpg	17.1 (3.8)	24.4 (6.2)	20.1 (6)	3e-04
hp	160.3 (53.9)	126.8 (84.1)	146.7 (68.6)	0.1798
wt	3.8 (0.8)	2.4 (0.6)	3.2 (1)	0

4.4 JAMA Theme (clean minimal)

```
create_table(  
  formula = transmission ~ mpg + hp + wt,  
  data = mtcars,  
  pvalue = TRUE,  
  totals = TRUE,  
  theme = "jama"  
)
```

% JAMA theme formatting

variables	Automatic	Manual	Total	p.value
mpg	17.1 (3.8)	24.4 (6.2)	20.1 (6)	3e-04
hp	160.3 (53.9)	126.8 (84.1)	146.7 (68.6)	0.1798
wt	3.8 (0.8)	2.4 (0.6)	3.2 (1)	0

5 Performance Demo

```
# Demonstrate with larger simulated dataset  
set.seed(789)  
large_data <- data.frame(  
  treatment = factor(sample(c("Placebo", "Drug A", "Drug B"), 1000, replace = TRUE)),  
  age = round(rnorm(1000, 65, 15)),  
  sex = factor(sample(c("Male", "Female"), 1000, replace = TRUE)),  
  weight = round(rnorm(1000, 70, 15), 1),  
  height = round(rnorm(1000, 170, 10), 1),  
  center = factor(sample(paste("Center", 1:5), 1000, replace = TRUE))  
)  
  
# Time the table creation  
system.time({  
  create_table(  
    formula = treatment ~ age + sex + weight + height,  
    data = large_data,  
    pvalue = TRUE,  
  )  
})
```

```

    totals = TRUE,
    theme = "nejm"
  )
})

```

user system elapsed 0.006 0.000 0.005

6 Available Themes

```

available_themes <- list_available_themes()
print(available_themes)

```

[1] "console" "nejm" "lancet" "jama" "simple"

The package includes 5 built-in themes optimized for different journal requirements and output formats.

7 Conclusion

The `zztable1_nextgen` package provides a flexible and efficient way to create publication-ready “Table 1” summaries. The examples in this vignette demonstrate:

- **Parameter Flexibility:** `strata`, `missing`, `pvalue`, `totals`, and `footnotes` parameters
- **Theme Variety:** All 5 built-in themes with authentic journal formatting
- **Footnote Support:** Both numbered (NEJM, Simple) and lettered (JAMA, Lancet) footnote styles
- **Missing Data Handling:** Comprehensive missing value reporting when `missing=TRUE`
- **Stratified Analysis:** Multi-group comparisons using the `strata` parameter
- **Performance:** Efficient handling of large datasets with complex parameter combinations

Key footnote features demonstrated:

- **NEJM Theme:** Numbered footnotes (1, 2, 3) for clinical publications
- **JAMA Theme:** Lettered footnotes (a, b, c) for medical research
- **Simple Theme:** Numbered footnotes for general reports
- **Custom Content:** Flexible footnote text for methods, data sources, and definitions

The package maintains the familiar R formula interface while providing significant performance improvements and enhanced functionality through its optimized architecture.