

Professional Report Title

Report Subtitle

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Introduction

This template demonstrates the use of brand colors and custom typography in a professional report. The design system includes:

- **Typography**
 - Headings: Roboto Slab
 - Body Text: Roboto
 - Code: JetBrains Mono
- **Colors**
 - Primary: Deep Navy (#2D3047)
 - Secondary: Forest Green (#419D78)
 - Accents: Golden Yellow (#E0A458) and Coral (#E76F51)

Colors

```
display_colors_d("main")
```

Main colors

navy	#2D3047
green	#2F9D72
blue	#2572B2
yellow	#CBBA44
purple	#58508D

Sample Visualization

```
ggplot(mtcars, aes(x = wt, y = mpg, color = factor(cyl))) +
  geom_point(size = 3, alpha = 0.8) +
  geom_smooth(method = "lm", se = FALSE, alpha = 0.8) +
  theme_shubham() +
  scale_color_shubham_d() +
  labs(
    title = "Vehicle Weight vs. Fuel Efficiency",
    subtitle = "Relationship across different cylinder counts",
    x = "Weight (1000 lbs)",
    y = "Miles per Gallon",
    color = "Number of\nCylinders",
    caption = "Data source: mtcars dataset"
  )
```

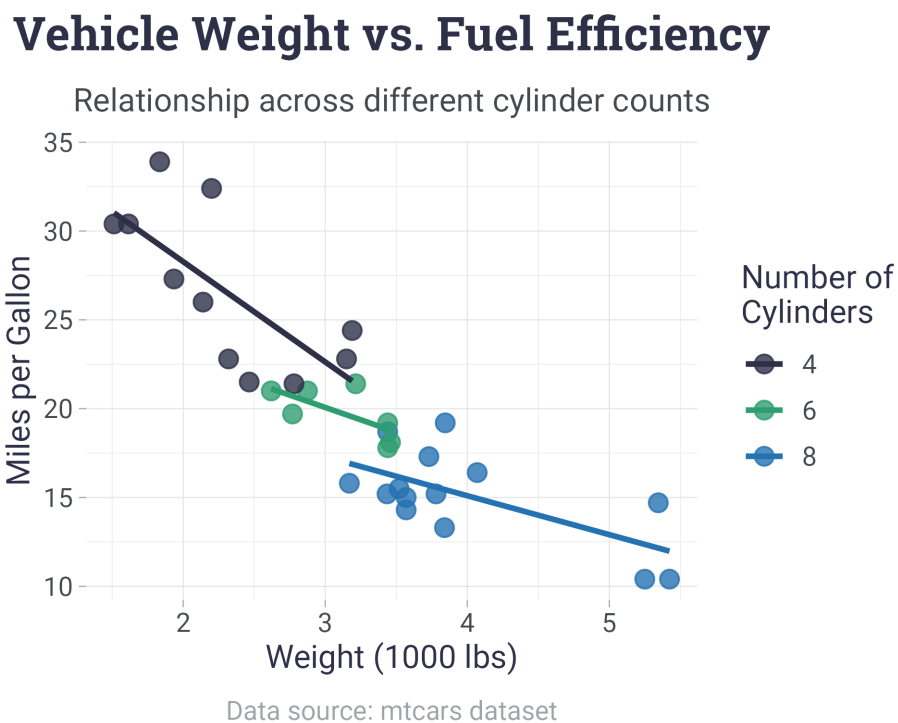


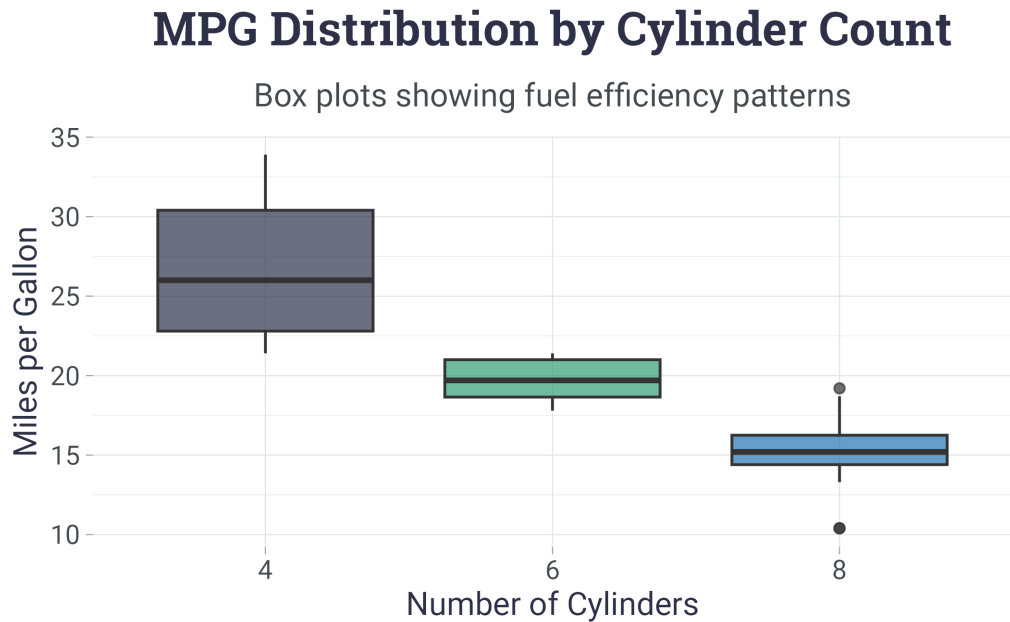
Figure 1: Example visualization using brand colors

```
ggplot(mtcars, aes(x = factor(cyl), y = mpg, fill = factor(cyl))) +
  geom_boxplot(alpha = 0.7) +
  theme_shubham() +
  scale_fill_shubham_d() +
  theme(legend.position = "none") +
  labs(
```

```

title = "MPG Distribution by Cylinder Count",
subtitle = "Box plots showing fuel efficiency patterns",
x = "Number of Cylinders",
y = "Miles per Gallon"
)

```



```

cyl_summary <- mtcars %>%
  group_by(cyl) %>%
  summarise(
    mean_hp = mean(hp),
    se_hp = sd(hp)/sqrt(n())
  )

ggplot(cyl_summary, aes(x = factor(cyl), y = mean_hp, fill = factor(cyl))) +
  geom_bar(stat = "identity", alpha = 0.7) +
  geom_errorbar(aes(ymin = mean_hp - se_hp, ymax = mean_hp + se_hp),
               width = 0.2) +
  theme_shubham() +
  scale_fill_shubham_d() +
  theme(legend.position = "none") +
  labs(
    title = "Average Horsepower by Cylinder Count",
    subtitle = "With standard error bars",
    x = "Number of Cylinders",
    y = "Horsepower"
  )

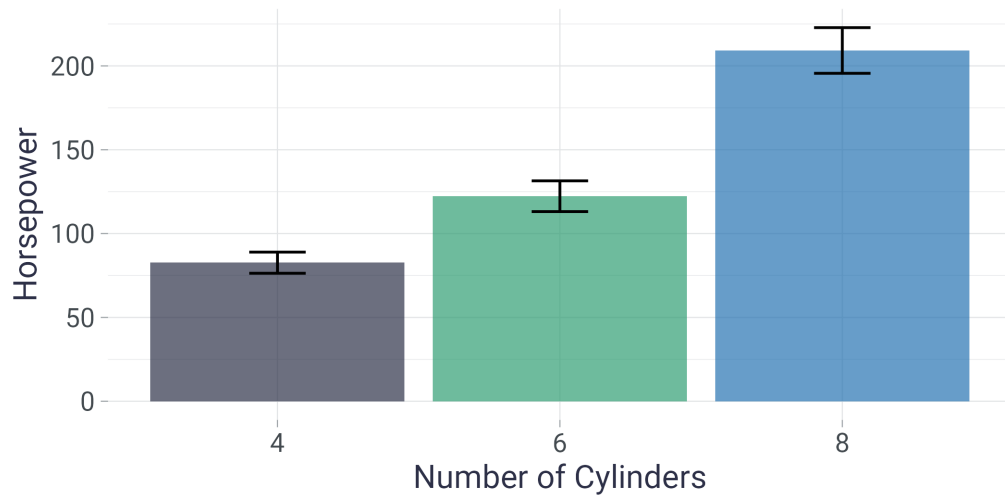
```

Table 1: Example table using brand colors

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

Average Horsepower by Cylinder Count

With standard error bars



Sample Table

```
mtcars %>%
  head() %>%
  kbl() %>%
  kable_styling(
    bootstrap_options = c("striped", "hover"),
    latex_options = c("striped"),
    full_width = FALSE
  ) %>%
  row_spec(0, bold = TRUE)
```

Methods

Code Example

Here's an example of how code blocks look in this template:

```
summary_stats <- mtcars %>%  
  group_by(cyl) %>%  
  summarise(  
    mean_mpg = mean(mpg),  
    sd_mpg = sd(mpg),  
    n = n()  
  )  
  
print(summary_stats)
```

```
# A tibble: 3 x 4  
  cyl mean_mpg sd_mpg    n  
  <dbl>   <dbl> <dbl> <int>  
1     4    26.7   4.51    11  
2     6    19.7   1.45     7  
3     8    15.1   2.56    14
```

Results

Mathematical Equations

The template also supports mathematical equations:

$$f(x) = \int_{-\infty}^{\infty} \hat{f}(\xi) e^{2\pi i \xi x} d\xi$$

Discussion

This section demonstrates how different heading levels look in the document.

Subsection Example

This shows a subsection with the secondary brand color.

Sub-subsection Example

This shows the lowest heading level.

References