# LATEX tables with tabularray

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This vignette demonstrates how to harness the capabilities of tabularray and kableExtra for crafting advanced LATEX tables in R. The integration of kableExtra with tabularray brings a host of benefits, including versatile cell alignment and the ability to create colorful, multirow, and multicolumn tables. The guide covers controlling rows, columns, cells, line manipulation, table width management, and more. Our aim is to equip users with the knowledge to create visually appealing and well-structured LATEX tables.

Click here to visit the tabularray website and read its documentation.

To create tables with tabularray in kableExtra, users only need to set the tabular argument of the kbl function:

```
library(kableExtra)

df <- data.frame(
    car = row.names(mtcars),
    mtcars[, 1:3], row.names = NULL
)[1:4,]

kbl(df, tabular = "tblr", booktabs = TRUE)</pre>
```

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

## Why?

kableExtra supports the tabularray package for LATEX to create tables with advanced formatting options. Using this tabular environments allows us to circumvent several nagging bugs in kableExtra output, and opens many new possibilities. tabularray offers several benefits:

- Versatile cell alignment
- Multirow and multicolumn support
- Flexible column types
- Advanced line customization
- Colorful table options
- Improved vertical spacing
- Compatibility with LATEX3

- Support for long tables
- Integration with popular LATEX libraries

One of the most important advantages of using tabularray is that code generated by kableExtra is very readable, and much easier to edit manually than when using other LATEX packages. For example, here is the code for a table with colored and bolded rows:

```
kbl(df, tabular = "tblr, booktabs = TRUE") |>
row_spec(2:3, bold = TRUE, background = "pink") |>
cat()
```

```
\begin{tblr, booktabs = TRUE}[t]{1|r|r|r}
\hline
car & mpg & cyl & disp\\
\hline
Mazda RX4 & 21.0 & 6 & 160\\
\hline
\cellcolor{pink}{\textbf{Mazda RX4 Wag}} & \cellcolor{pink}{\textbf{21.0}} & \cellcolor{pink}
\hline
\cellcolor{pink}{\textbf{Datsun 710}} & \cellcolor{pink}{\textbf{22.8}} & \cellcolor{pink}{\\hline
Hornet 4 Drive & 21.4 & 6 & 258\\
\hline
```

Here are some of the important things to notice:

\end{tblr, booktabs = TRUE}

- The tabular environment starts with \being{tblr} and ends with \end{tblr}.
- The data and style are completely independent: The tabular content is untouched, and we add colspec and rowspec headers to specify the style.
- Each row and each column gets a Q[] entry, which acts as a styling operator. We can insert arguments in the square brackets to change the style of all the cells in a column or row. The available arguments are described in the tabularray documentation.

In contrast, when using other LATEX packages, each entry of the table must be modified, which arguably makes the code messier and harder to edit:

```
kbl(df, format = "latex") |>
  row_spec(2:3, bold = TRUE, background = "pink") |>
  cat()
```

```
\begin{tabular}[t]{l|r|r|}
\hline
car & mpg & cyl & disp\\
\hline
Mazda RX4 & 21.0 & 6 & 160\\
\hline
\cellcolor{pink}{\textbf{Mazda RX4 Wag}} & \cellcolor{pink}{\textbf{21.0}} & \cellcolor{pink}
\hline
\cellcolor{pink}{\textbf{Datsun 710}} & \cellcolor{pink}{\textbf{22.8}} & \cellcolor{pink}{\\hline
Hornet 4 Drive & 21.4 & 6 & 258\\
\hline
\end{tabular}
```

## Text styles

The core functions to modify text styles in kableExtra are cell\_spec(), row\_spec(), and column\_spec(). All the arguments of these functions are supported, except for 3 arguments of the row\_spec() function: angle, font\_size, and align. Users can achieve a similar effect using the cell\_spec() function (see the section below on cell-specific settings).

Here is an example of a table with bold text and strikethroughs:

```
kbl(df, tabular = "tblr", booktabs = TRUE) |>
row_spec(2:3, bold = TRUE) |>
column_spec(1, strikeout = TRUE)
```

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

## **Colors**

In tabularray, color names are supported through the integration of the xcolor and ninecolors packages. The xcolor package is a comprehensive solution in LaTeX for color customization, offering a wide range of predefined color names and the ability to define

custom colors using various color models like RGB, CMYK, and HTML. This flexibility allows for precise color specification and is ideal for setting text, table elements, and other document components in LaTeX.

The basic LATEX colors are: black, blue, brown, cyan, darkgray, gray, green, lightgray, lime, magenta, olive, orange, pink, purple, red, teal, violet, white, yellow.

The ninecolors package adds suffix to 9 of those colors to set 1 of 13 different hues: gray, red, brown, yellow, olive, green, teal, cyan, azure, blue, violet, magenta, purple. For all colors, 0 means black, and 10 is white. Two colors with the same numbered suffix have the same luminance (ex: gray3 and olive3). These nine colors are carefully selected to ensure proper color contrast according to the Web Content Accessibility Guidelines (WCAG). This feature is particularly useful for creating documents with high readability and accessibility standards. To get proper WCAG Color Contrast, the ninecolors author recommends choosing two colors with different names, with at least a 5 unit difference in level.

The col\_spec(), row\_spec(), and cell\_spec() functions support these colors out of the box:

```
df |>
  kbl(tabular = "tblr", booktabs = TRUE) |>
  column_spec(1, color = "purple3") |>
  row_spec(2:3, background = "azure9")
```

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

Of course, kableExtra themes are also supported:

```
df |>
  kbl(tabular = "tblr", booktabs = TRUE) |>
  kable_styling(latex_options = "striped")
```

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

#### **Precedence**

In some contexts, user-specified settings like cell colors or text styles enter in conflict. In such cases, these two rules are applied:

- 1. cell\_spec() settings have the highest precedence.
- 2. The last function call determines if row or column settings have precedence: column\_spec() vs row\_spec()

In the following example, we define conflicting background colors at the cell, column, and row level. In that case, the cell wins. When there is only a conflict between rows and columns, rows win because row\_spec() is called after column\_spec().

```
df2 <- df
df2[1, 1] <- cell_spec(df2[1, 1], background = "yellow", format = "tblr")
kbl(df2, tabular = "tblr", escape = FALSE, booktabs = TRUE) |>
    column_spec(1:2, background = "pink") |>
    row_spec(1:2, background = "azure8")
```

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

#### Width

This example illustrates how to customize the width of a single columns, while expanding the rest of the table to fill the entire page width:

```
kbl(df, tabular = "tblr", align = "lccc", booktabs = TRUE) |>
    kable_styling(full_width = TRUE) |>
    column_spec(1, width = "8cm")
```

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

Under the hood, to fix the width of certain columns or expand the table to full page width, kableExtra can use X or Q columns in tabularray. X columns are designed for scenarios where you want the table columns to automatically adjust their widths to fill the entire available space. This feature is particularly useful for creating tables that span the full width of a page or container. When you use X columns, the width of each column is proportionally divided based on the available space, allowing for a responsive and evenly distributed layout. On the other hand, Q columns function like the standard p columns in LATEX, where you manually specify the width of each column. The content in these columns is wrapped to fit within the set width. This type of column is ideal when precise control over column width is needed, such as in tables with varying content lengths or specific design requirements.

When using the kable\_styling() function in R for LaTeX output and setting full\_width = TRUE, the table automatically employs X columns. This configuration makes the table expand to fill the width of its container, with each column adjusting its width to fit proportionally. This is a key feature for creating full-width tables that need to be responsive and aesthetically balanced in their layout.

#### **Cell specification**

To apply cell-specific settings, we can use the cell\_spec() function. In kbl(), it is necessary to use escape=TRUE and tabular="tblr". In cell\_spec(), it is necessary to use tabular="tblr":

```
df2 <- df
df2[2, 2] <- cell_spec(
    df2[2, 2],
    background = "pink",
    align = "c",
    color = "azure2",
    font_size = 20,
    angle = 45,
    format = "tblr")</pre>
kbl(df2, tabular = "tblr", escape = FALSE, booktabs = TRUE)
```

car	mpg	cyl	disp
Mazda RX4	21	6	160
Mazda RX4 Wag	2>	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

## Long tables

```
cities <- c(
"Toronto", "Montreal", "Vancouver", "Calgary", "Edmonton", "Ottawa",
"Winnipeg", "Quebec City", "Hamilton", "Kitchener", "London", "Victoria",
"Halifax", "Oshawa", "Windsor", "Saskatoon", "Regina", "St. John's",
"Sudbury", "Sherbrooke", "Barrie", "Kelowna", "Abbotsford", "Kingston",
"Guelph", "Moncton", "Brantford", "Saint John", "Thunder Bay", "Peterborough",
"Lethbridge", "Kamloops", "Nanaimo", "Sarnia", "Saint-Jean-sur-Richelieu",
"Red Deer", "Chilliwack", "Sault Ste. Marie", "Drummondville", "Fredericton"
)
df2 <- data.frame(
    city = cities,
    numbers = sprintf("%.5f", rnorm(40))
)
kbl(df2, tabular = "longtblr", caption = "Blah blah", booktabs = TRUE) |>
    kable_styling()
```

Table 1: Blah blah

city	numbers							
Toronto	0.11229							
Montreal	1.79143							
Vancouver	1.00409							
Calgary	-0.85784							
Edmonton	0.71551							
Ottawa	-0.40767							
Winnipeg	0.41468							
Quebec City	-1.40655							
Hamilton	-1.19807							
Kitchener	-0.23858							
London	0.03915							
Victoria	0.62566							

Continued on next page

Table 1: Blah blah (Continued)

Halifax       -0.51304         Oshawa       -2.12359         Windsor       0.71609         Saskatoon       0.29751         Regina       0.41718         St. John's       -0.13855         Sudbury       0.57063         Sherbrooke       -0.53162         Barrie       -1.65602         Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847         Fredericton       -0.52142		
Windsor       0.71609         Saskatoon       0.29751         Regina       0.41718         St. John's       -0.13855         Sudbury       0.57063         Sherbrooke       -0.53162         Barrie       -1.65602         Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Halifax	-0.51304
Saskatoon       0.29751         Regina       0.41718         St. John's       -0.13855         Sudbury       0.57063         Sherbrooke       -0.53162         Barrie       -1.65602         Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Oshawa	-2.12359
Regina       0.41718         St. John's       -0.13855         Sudbury       0.57063         Sherbrooke       -0.53162         Barrie       -1.65602         Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Windsor	0.71609
St. John's       -0.13855         Sudbury       0.57063         Sherbrooke       -0.53162         Barrie       -1.65602         Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Saskatoon	0.29751
Sudbury       0.57063         Sherbrooke       -0.53162         Barrie       -1.65602         Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Regina	0.41718
Sherbrooke       -0.53162         Barrie       -1.65602         Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	St. John's	-0.13855
Barrie       -1.65602         Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Sudbury	0.57063
Kelowna       0.53306         Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Sherbrooke	-0.53162
Abbotsford       -0.58949         Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Barrie	-1.65602
Kingston       1.17278         Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Kelowna	0.53306
Guelph       1.05750         Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Abbotsford	-0.58949
Moncton       -0.71543         Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Kingston	1.17278
Brantford       0.25927         Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Guelph	1.05750
Saint John       0.12709         Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Moncton	-0.71543
Thunder Bay       -0.83605         Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Brantford	0.25927
Peterborough       -1.00507         Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Saint John	0.12709
Lethbridge       0.88077         Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Thunder Bay	-0.83605
Kamloops       0.01991         Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Peterborough	-1.00507
Nanaimo       -0.54645         Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Lethbridge	0.88077
Sarnia       -0.16076         Saint-Jean-sur-Richelieu       -0.38583         Red Deer       1.35766         Chilliwack       1.32879         Sault Ste. Marie       -0.19520         Drummondville       -0.31847	Kamloops	0.01991
Saint-Jean-sur-Richelieu -0.38583 Red Deer 1.35766 Chilliwack 1.32879 Sault Ste. Marie -0.19520 Drummondville -0.31847	Nanaimo	-0.54645
Red Deer 1.35766 Chilliwack 1.32879 Sault Ste. Marie -0.19520 Drummondville -0.31847	Sarnia	-0.16076
Chilliwack 1.32879 Sault Ste. Marie -0.19520 Drummondville -0.31847	Saint-Jean-sur-Richelieu	-0.38583
Sault Ste. Marie -0.19520 Drummondville -0.31847	Red Deer	1.35766
Drummondville -0.31847	Chilliwack	1.32879
	Sault Ste. Marie	-0.19520
Fredericton -0.52142	Drummondville	-0.31847
	Fredericton	-0.52142

#### Tall tables

```
kbl(df, tabular = "talltblr", caption = "Blah blah", booktabs = TRUE) |>
   kable_styling(latex_options = "HOLD_position")
```

Table 2: Blah blah

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

#### tabularray options

The tabularray document describes many options and arguments to control cells, rows, and columns of a table.

There are two different types of options in tabularray: inner and outer. The inner options are defined in curly braces. The outer options are defined in square brackets. Consider this longtblr in which we specify both an inner (rowhead) and an outer (entry) option:

```
\begin{longtblr}[
  headsep = 12pt,
]{
  colspec = {Q[bg=pink]Q[bg=yellow]},
   rowhead = 2,
}
\hline
Car & mpg \\
\hline
Mazda RX4 & 21.0 \\
Mazda RX4 Wag & 21.0 \\
hline
\end{longtblr}
```

Both types of options can be set using kable\_styling() function and its latex\_options argument:

```
kbl(df, tabular = "talltblr", booktabs = TRUE) |>
  kable_styling(latex_options = list(tabularray_outer = c(
    "caption = {A caption.}",
    "label = {tab:mytable}",
    "headsep = 12pt"
)))
```

Table 3: A caption.

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

The mechanism above sets options at the table-level. Unfortunately, kableExtra does not have a direct way to set inner options at the row, column or cell-level. However, it is easy to hack our way around this limitation to set inner options at any level we want: columns, rows, or cells.

For example, the row\_spec() function from kableExtra does not have an argument to control the height of columns, but tabularray does have an inner option: ht. To insert this in the row settings, we can push ht through the existing background argument of row\_spec(). To understand how this works, note that when we call background="red", kableExtra simply adds a string to the rowspec header: fg=red. If we extend the background entry, then we can specify height and vertical alignment too. Here, we use f for "foot" (also: h, m) and specify the height in em units (also: cm, pt, in):

```
kbl(df, tabular = "tblr", booktabs = TRUE) |>
row_spec(2, background = "pink, ht=3.5em, valign=f")
```

car	mpg	cyl	$\operatorname{disp}$
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

The code for this table is printed below. You will note that the rowspec line has been modified: The second row will now be taller, and the text will be foot-aligned.

```
\begin{tblr}[
                     % tabularray outer open
                     % tabularray outer close
]
{
                     % tabularray inner open
colspec={Q[halign=1]Q[halign=r]Q[halign=r]},
rowspec={Q[]Q[]Q[bg=pink, ht=3.5em, valign=f]Q[]Q[]Q[]},
                     % tabularray inner close
\toprule
car & mpg & cyl & disp\\
\midrule
Mazda RX4 & 21.0 & 6 & 160\\
Mazda RX4 Wag & 21.0 & 6 & 160\\
Datsun 710 & 22.8 & 4 & 108\\
Hornet 4 Drive & 21.4 & 6 & 258\\
\bottomrule
\end{tblr}
```

#### Lines

The tabularray package offers advanced table formatting options in LATEX, especially for vertical and horizontal lines. The syntax to control these lines is slightly different than for other output format in kableExtra, so it deserves some explanation. Consider this example:

```
kbl(df, tabular = "tblr", vline = "", linesep = "",
    toprule = "", midrule = "", bottomrule = "") |>
    kable_styling(
    latex_options = list(tabularray_inner = c(
        "hlines={dash=dotted, fg=brown6}",
        "vlines={dash=dashed, fg=green4, wd=2pt}"
    ))
)
```

car	mpg	cyl	$\operatorname{disp}$
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

To achieve this result, we began by removing the default horizontal rules (toprule, midrule, bottomrule), otherwise, there would be double horizontal lines in the table. Then, we use

kable\_styling() with the latex\_options argument to specify a vector of tabularray options.

When vlines and hlines are in plural form, they control all lines in the table. tabularray also supports another syntax for specifying individual lines. For example, we can control the color, width, and type of lines as follows:

```
kbl(df, tabular = "tblr", vline = "",
    toprule = "", midrule = "", bottomrule = "", linesep = "") |>
kable_styling(
    latex_options = list(tabularray_inner = c(
        "hline{1-6}={dash=solid, fg=brown6}",
        "vline{2,3}={dash=dotted, fg=green4}"
    ))
)
```

car	mpg	cyl	$\operatorname{disp}$
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

Of course, we can still use the usual kableExtra interface:

```
kbl(mtcars[1:5, 1:4],
    tabular = "tblr",
    booktabs = TRUE,
    vline = "",
    toprule = "\\toprule[4pt, lightgray]",
    midrule = "\\midrule[3pt, lightgray]",
    bottomrule = "\\bottomrule[5pt, orange]",
    linesep = "\\midrule[2pt, lightgray]")
```

	mpg	cyl	$\operatorname{disp}$	hp
Mazda RX4	21.0	6	160	110
Mazda RX4 Wag	21.0	6	160	110
Datsun 710	22.8	4	108	93
Hornet 4 Drive	21.4	6	258	110
Hornet Sportabout	18.7	8	360	175

Unfortunately, commands like this do not appear to be recognized by tabularray:

```
\\arrayrulecolor{lightgray}\\midrule[2pt]
```

#### Footnotes and remarks

The footnote() function from kableExtra works as expected, including the threepartable argument:

```
lorem <- paste(c(
"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam",
"molestie, leo in placerat tristique, nisi diam laoreet lorem, molestie venenatis",
"ex elit non leo. Vivamus posuere ligula quis felis vehicula, porta consectetur",
"tortor fringilla. Fusce gravida venenatis consectetur. Sed a odio metus. Sed",
"egestas dui sed justo accumsan volutpat. Phasellus a mollis dolor. Morbi luctus",
"nibh at erat interdum, sed rutrum eros ultrices. Suspendisse at bibendum nibh.",
"Duis sit amet nisi nec nisl pretium volutpat sed ut elit. Donec ultricies",
"dapibus dolor, non congue purus vestibulum sit amet. Etiam molestie libero in."),
collapse = " ")

kbl(df, tabular = "tblr", caption = "Blah blah") |>
    kable_styling(full_width = TRUE, latex_options = "HOLD_position") |>
    footnote(
        threeparttable = TRUE,
        general = lorem)
```

Table 4: Blah blah

car	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108
Hornet 4 Drive	21.4	6	258

#### Note:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam molestie, leo in placerat tristique, nisi diam laoreet lorem, molestie venenatis ex elit non leo. Vivamus posuere ligula quis felis vehicula, porta consectetur tortor fringilla. Fusce gravida venenatis consectetur. Sed a odio metus. Sed egestas dui sed justo accumsan volutpat. Phasellus a mollis dolor. Morbi luctus nibh at erat interdum, sed rutrum eros ultrices. Suspendisse at bibendum nibh. Duis sit amet nisi nec nisl pretium volutpat sed ut elit. Donec ultricies dapibus dolor, non congue purus vestibulum sit amet. Etiam molestie libero in.

In addition, tabularray includes its own mechanism to append notes and remarks to the bottom of tables in the longtblr and talltblr formats. To insert a footnote with a marker inside a specific cell of the table, we insert a \TblrNote{} command inside the cell, and use note and/or remark in the latex\_options:

```
df <- data.frame(
    blah = c("blah blah\\TblrNote{$\\dag$}", "blah blah blah"),
    location = c("Montreal", "Quebec")
)
kbl(df, tabular = "talltblr", escape = FALSE) |>
    kable_styling(
    latex_options = list(tabularray_outer = c(
        "caption={A caption.}",
        "remark{Source}={A remark.}",
        "remark{Note}={Another remark.}",
        "note{$\\dag$}={A note.}")
    )
)
```

Table 5: A caption.

blah	location
blah blah <sup>†</sup>	Montreal
blah blah blah	Quebec

<sup>†</sup> A note.

Source: A remark.

Note: Another remark.

## add\_header\_above()

The add\_header\_above() function can create spanning column labels using the \SetCel[c=2]{} command from tabularray:

```
mtcars[1:4, 1:5] |>
    kbl(tabular = "tblr", align = "c", booktabs = TRUE) |>
    add_header_above(
        c(" " = 1, "$\\alpha$" = 2, "$\\beta$" = 3),
        escape = FALSE) |>
    add_header_above(
        c("First Three" = 3, " " = 1, "Penultimate" = 1, " " = 1),
        italic = TRUE)
```

First Thr	ree			Penultimate	
	α			$\beta$	
	$\overline{\mathrm{mpg}}$	cyl	$\overline{\mathrm{disp}}$	hp	drat
Mazda RX4	21.0	6	160	110	3.90
Mazda RX4 Wag	21.0	6	160	110	3.90
Datsun 710	22.8	4	108	93	3.85
Hornet 4 Drive	21.4	6	258	110	3.08

## Solved bugs

This section prints several tables which previous included bugs, as reported by kableExtra users on the issue tracker. This illustrates that tabularray solves many longstanding problems.

```
mtcars %>%
  head(n = 10) %>%
  kbl(tabular = "tblr") %>%
  kable_styling(latex_options = "HOLD_position") |>
  row_spec(seq(1, 10, by = 2), background = "gray8, ht=1cm") |>
  row_spec(seq(2, 10, by = 2), background = "white, ht=1cm")
```

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
Duster 360	14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
Merc 240D	24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2
Merc 230	22.8	4	140.8	95	3.92	3.150	22.90	1	0	4	2
Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4

```
cs_dt <- mtcars[1:10, 1:2]
cs_dt$mpg = cell_spec(cs_dt$mpg, align = "c")</pre>
```

```
kbl(cs_dt, tabular = "tblr", escape = FALSE) %>%
kable_styling(latex_options = "striped")
```

	mpg	cyl
Mazda RX4	21	6
Mazda RX4 Wag	21	6
Datsun 710	22.8	4
Hornet 4 Drive	21.4	6
Hornet Sportabout	18.7	8
Valiant	18.1	6
Duster 360	14.3	8
Merc 240D	24.4	4
Merc 230	22.8	4
Merc 280	19.2	6

```
set.seed(1024)
paint <- function(x) {
  col <- ifelse(x < 0.5, "yellow", "red")
  sapply(seq_along(x), function(i) cell_spec(
    formatC(x[i], format = "f", digits = 2),
    background = col[i], format = "tblr")
  )
}

DF <- data.frame(
  V1 = sample(letters,10,T),
  V2 = abs(rnorm(10)),
  V3 = abs(rnorm(10)))

DF[,-1] = lapply(DF[,-1], paint)

kbl(DF, tabular = "tblr", digits = 2, escape = FALSE) |>
    kable_styling(latex_options = "striped")
```

V1	V2	V3
u	1.74	0.38
v	0.11	0.84
u	0.91	0.58
m	1.06	1.45
0	0.02	0.28
x	0.29	1.12
m	0.03	1.32
p	0.73	1.41
g	0.53	0.94
h	0.20	2.28

```
mtcars[1:3, 1:3] |>
  kbl(tabular = "tblr", booktabs = TRUE) |>
  row_spec(0, background = "teal3", bold = TRUE, color = "white")
```

	mpg	cyl	$\operatorname{disp}$
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108

```
kbl(mtcars[1:7, ], align = "c", tabular = "tblr", booktabs = TRUE) %>%
kable_styling(
   latex_options = c("striped", "HOLD_position"),
   full_width = TRUE) %>%
column_spec(1, width = "4cm")
```

	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
Duster 360	14.3	8	360	245	3.21	3.570	15.84	0	0	3	4

```
dt <- data.frame(
   title = c(rep("a", 3), rep("b", 3), rep("c", 3), rep("d", 3)),
   value = 1:12
)
kbl(dt, format = "latex", tabular = "tblr") |>
   collapse_rows(1, latex_hline = "none") |>
   pack_rows(index = c('a' = 3, 'b' = 3, 'c' = 3, 'd' = 3)) |>
   row_spec(c(1, 5, 9, 13), background = "gray8")
```

title	value				
a <b>a</b>					
	1				
a	2				
a	3				
$b\mathbf{b}$					
	4				
b	5				
b	6				
cc					
	7				
$\mathbf{c}$	8				
$\mathbf{c}$	9				
$\mathrm{d}\mathbf{d}$					
	10				
d	11				
d	12				

```
t <- head(cars)
t$dist <- cell_spec(t$dist, background = "red", format = "tblr")
kbl(t, tabular = "tblr", escape = FALSE) |>
   kable_styling(latex_options = c("striped"))
```

speed	dist
4	2
4	10
7	4
7	22
8	16
9	10

## Remaining bugs

The bugs in this section should be easy to fix now.

```
groups \leftarrow c(3, 3, 5, 4, 3, 3, 3, 2, 3, 2, 3)
groups <- setNames(groups, c("a", "b", "c", "d", "e", "f", "g", "h", "i", "j", "k"))
x <- data.frame(Term = c('Other', 'White', 'Black', '18 to 24', '25 to 39', '40
to 59', 'Married', 'No longer married', 'Never married', 'Living with partner',
'Missing', '0-1', '2-5', '6-10', '11+', '0-1', '2-5', '6+', '0-1', '2-5', '6+',
'0-1', '2-5', '6+', 'Yes', 'No', 'Never', 'Ever', 'Missing', 'Never', 'Ever',
'Heterosexual', 'Homosexual/Bisexual', 'Other'), uni = c('Ref', '0.87(0.36,
2.1)', '1.3(0.62, 2.7)^', 'Ref', '0.65(0.32, 1.3)', '0.69(0.38, 1.2)', 'Ref',
'4.5(1.5, 13.5)**^', '3.8(1.6, 9.1)**^', '2.7(0.86, 8.3)^', '7.1(2.4, 20.7)***',
'Ref', '1.9(0.47, 7.3)^', '2.5(0.89, 6.9)^', '4.1(1.5, 11.6)**^', 'Ref',
'4.2(2.2, 7.8)***', '14.1(2.6, 75.9)***^', 'Ref', '1.6(0.81, 3.1)^', '3.7(1.5,
9.2)**^', 'Ref', '2.8(1.2, 6.3)*^', '16.8(3.1, 92.5)***^', 'Ref', '0.59(0.28,
1.2)', 'Ref', '3.2(1.3, 7.9)*^', '6.6(3.3, 13.2)***', 'Ref', '2.7(1.5, 4.9)***',
'Ref', '1.4(0.48, 4.0)^', '0.69(0.16, 3.0)'), adj = c('Ref', '0.63(0.21, 1.9)',
'0.86(0.40, 1.8)', 'Ref', '1.5(0.43, 5.1)^', '2.1(0.75, 5.9)^', 'Ref',
'2.5(0.73, 8.5)^', '2.8(0.79, 9.6)^', '2.0(0.62, 6.4)^', '5.9(1.0, 34.4)^',
'Ref', '0.99(0.14, 7.1)', '0.70(0.16, 3.1)', '0.57(0.11, 3.0)', 'Ref',
'3.3(0.87, 12.8)^', '4.2(0.85, 20.3)^', 'Ref', '1.3(0.44, 3.8)^', '2.1(0.47,
9.6)^', 'Ref', '0.65(0.13, 3.2)', '2.6(0.54, 12.5)^', 'NA', 'NA', 'Ref',
'2.3(0.81, 6.5)^', '1.8(0.31, 11.1)^', 'Ref', '1.7(0.89, 3.1)^', 'NA', 'NA',
'NA'), uni1 = c('Ref', '1.1(0.37, 3.2)^{-1}, '0.67(0.19, 2.3)', 'Ref', '0.38(0.16, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.2)^{-1}, '0.67(0.19, 3.
0.89)*', '0.61(0.24, 1.5)', 'Ref', '3.5(1.0, 12.5)^', '2.4(0.84, 7.0)^',
'1.7(0.34, 8.3)^', '8.0(2.5, 25.4)***', 'Ref', '1.2(0.23, 6.5)^', '2.5(0.81,
7.8) \(^\), \(^\)4.1(1.3, 13.3) \(^\)\(^\), \(^\)Ref'\, \(^\)4.4(2.1, 9.3) \(^\)***'\, \(^\)18.2(2.8, 120.2) \(^\)***'\,
'Ref', '2.9(0.96, 8.7)^', '6.0(1.9, 18.6)***^', 'Ref', '3.8(1.4, 10.4)*^',
'22.5(3.2, 155.8)***^', 'Ref', '0.99(0.33, 3.0)', 'Ref', '4.8(1.8, 12.6)***^',
'12.0(5.3, 27.1)***', 'Ref', '3.3(1.4, 7.9)*^', 'Ref', '0.98(0.24, 4.0)',
'1.0(0.24, 4.6)^{\prime}), adj1 = c('Ref', '0.73(0.22, 2.5)', '0.47(0.14, 1.6)', 'Ref',
'0.88(0.15, 5.2)', '1.9(0.48, 7.6)^', 'Ref', '1.7(0.48, 6.0)^', '1.8(0.39,
8.0)^', '1.2(0.28, 5.5)^', '6.5(0.95, 44.8)^', 'Ref', '0.36(0.06, 2.2)',
'0.41(0.09, 1.8)', '0.36(0.08, 1.7)', 'Ref', '3.2(0.45, 23.2)^', '4.6(0.55,
38.9)^', 'Ref', '3.0(0.75, 12.0)^', '3.1(0.54, 18.1)^', 'Ref', '0.95(0.11,
8.0)', '3.3(0.41, 26.8)^', 'NA', 'Ref', '3.3(1.3, 8.1)*^', '1.9(0.27,
13.1)^', 'Ref', '1.4(0.70, 2.9)^', 'NA', 'NA', 'NA'))
```

```
kbl(x, tabular = "tblr", row.names = FALSE) |>
  kable_styling(latex_options = c("striped", "scale_down")) |>
  group_rows(index = groups)
```

Term	uni	adi	uni1	adi1				
a a	uni	adj	uiiii	adj1				
Other Ref Ref Ref								
White	0.87(0.36, 2.1)	0.63(0.21, 1.9)	1.1(0.37, 3.2)	0.73(0.22, 2.5)				
Black	$1.3(0.62, 2.7)^{}$	0.86(0.40, 1.8)	0.67(0.19, 2.3)	0.47(0.14, 1.6)				
b  18 to 24  Pof  Pof  Pof								
18 to 24	Ref	Ref	Ref	Ref				
25 to 39	0.65(0.32, 1.3)	$1.5(0.43, 5.1)^{}$	0.38(0.16, 0.89)*	0.88(0.15, 5.2)				
40 to 59	0.69(0.38, 1.2)	2.1(0.75, 5.9)^	0.61(0.24, 1.5)	1.9(0.48, 7.6)^				
	c							
Married	Ref	Ref	Ref	Ref				
No longer married	4.5(1.5, 13.5)**^	2.5(0.73, 8.5)	3.5(1.0, 12.5)	1.7(0.48, 6.0)				
Never married	3.8(1.6, 9.1)**^	2.8(0.79, 9.6)	2.4(0.84, 7.0)	1.8(0.39, 8.0)				
Living with partner	2.7(0.86, 8.3)^	2.0(0.62, 6.4)^	1.7(0.34, 8.3)	1.2(0.28, 5.5)				
Missing	7.1(2.4, 20.7)***	5.9(1.0, 34.4)^	8.0(2.5, 25.4)***	$6.5(0.95, 44.8)^{}$				
d								
0-1	Ref	Ref	Ref	Ref				
2-5	1.9(0.47, 7.3)^	0.99(0.14, 7.1)	1.2(0.23, 6.5)^	0.36(0.06, 2.2)				
6-10	2.5(0.89, 6.9)^	0.70(0.16, 3.1)	2.5(0.81, 7.8)^	0.41(0.09, 1.8)				
11+	4.1(1.5, 11.6)**^	0.57(0.11, 3.0)	4.1(1.3, 13.3)*^	0.36(0.08, 1.7)				
e								
0-1	Ref	Ref	Ref	Ref				
2-5	4.2(2.2, 7.8)***	3.3(0.87, 12.8)^	4.4(2.1, 9.3)***	3.2(0.45, 23.2)^				
6+	14.1(2.6, 75.9)***^	4.2(0.85, 20.3)^	18.2(2.8, 120.2)***	4.6(0.55, 38.9)				
f	,	,	,					
0-1	Ref	Ref	Ref	Ref				
2-5	1.6(0.81, 3.1)^	1.3(0.44, 3.8)^	2.9(0.96, 8.7)^	3.0(0.75, 12.0)^				
6+	3.7(1.5, 9.2)**^	$2.1(0.47, 9.6)^{}$	6.0(1.9, 18.6)***	3.1(0.54, 18.1)^				
$\mathbf{g}$								
0-1	Ref	Ref	Ref	Ref				
2-5	2.8(1.2, 6.3)*^ 25	0.65(0.13, 3.2)	3.8(1.4, 10.4)*^	0.95(0.11, 8.0)				
6+	16.8(3.1, 92.5)***^	$2.6(0.54, 12.5)^{}$	22.5(3.2, 155.8)***^	$3.3(0.41, 26.8)^{}$				
$\mathbf{h}$	(. , 02.0)	(, + <b>-·</b> ··)	(. , _33.0)	., 20.0)				
Yes	Ref	NA	Ref	NA				
No	0.59(0.28, 1.2)	NA NA	0.99(0.33, 3.0)	NA NA				

}

## Issue #571

#### Notes:

• Striping does not take groups into account, but at least the indentation works.

```
kbl(mtcars[1:10, 1:6], tabular = "tblr") |>
  pack_rows("Group 1", 4, 7) |>
  pack_rows("Group 2", 8, 10) |>
  kable_styling(latex_options = c("striped"))
```

	mpg	cyl	disp	hp	drat	wt	
Mazda RX4	21.0	6	160.0	110	3.90	2.620	
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	
Datsun 710	22.8	4	108.0	93	3.85	2.320	
Group 1							
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	
Valiant	18.1	6	225.0	105	2.76	3.460	
Duster 360	14.3	8	360.0	245	3.21	3.570	
Group 2							
Merc 240D	24.4	4	146.7	62	3.69	3.190	
Merc 230	22.8	4	140.8	95	3.92	3.150	
Merc 280	19.2	6	167.6	123	3.92	3.440	