

L^AT_EX 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)
pkgload::load_all()
```

i Loading `kableExtra`

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

kbl(df, tabular = "tblr")
```

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 \LaTeX 3
- 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") |>
  row_spec(2:3, bold = TRUE, background = "pink") |>
  cat()
```

```
\begin{tblr}[
]
{
  colspec={Q[halign=l]Q[halign=r]Q[halign=r]Q[halign=r]},
  rowspec={Q[]Q[]Q[bg=pink, font=\bfseries]Q[bg=pink, font=\bfseries]Q[]Q[]},
}
\hline
car & mpg & cyl & disp\\
\hline
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\\
\hline
\end{tblr}
```

Here are some of the important things to notice:

- The tabular environment starts with `\begin{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 L^AT_EX 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|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}{\textbf{6}} & \cellcolor{pink}{\textbf{160}}\\
\hline
\cellcolor{pink}{\textbf{Datsun 710}} & \cellcolor{pink}{\textbf{22.8}} & \cellcolor{pink}{\textbf{4}} & \cellcolor{pink}{\textbf{108}}\\
\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 strikeouts:

```
kbl(df, tabular = "tblr") |>
  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") |>
  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") |>
  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) |>
  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

Lines

The `tabulararray` 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",
  toprule = "", midrule = "", bottomrule = "",
  linesep = "hlines={dash=dotted, fg=brown6}",
  vline = "vlines={dash=dashed, fg=green4, wd=2pt}"
)
```

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

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 the `linesep` argument to tell `tabularray` how to format horizontal lines in the table, and the `vline` argument to control vertical lines.

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",
  toprule = "", midrule = "", bottomrule = "",
  linesep = "hline{1-6}={dash=solid, fg=brown6}",
  vline = "vline{2,3}={dash=dotted, fg=green4}"
)
```

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") |>
  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 **tabulararray**. **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 **L^AT_EX**, 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 **L^AT_EX** 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-specific settings

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")
```

```
kbl(df2, tabular = "tblr", escape = FALSE)
```

car	mpg	cyl	disp
Mazda RX4	21	6	160
Mazda RX4 Wag	21	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") |>  
  kable_styling()
```

Table 1: Blah blah

city	numbers
Toronto	-1.31324
Montreal	0.91327

Continued on next page

Table 1: Blah blah (Continued)

Vancouver	0.58609
Calgary	-0.54146
Edmonton	0.89716
Ottawa	-0.53391
Winnipeg	1.37923
Quebec City	0.48936
Hamilton	-0.59014
Kitchener	0.02743
London	0.23146
Victoria	0.69012
Halifax	-0.67746
Oshawa	-0.09172
Windsor	1.39167
Saskatoon	-0.57315
Regina	0.16466
St. John's	-0.25788
Sudbury	-0.20407
Sherbrooke	-0.07072
Barrie	-0.76454
Kelowna	1.78497
Abbotsford	0.40974
Kingston	-0.49018
Guelph	-1.69487
Moncton	-0.29963
Brantford	-0.73181
Saint John	1.21512
Thunder Bay	0.84908
Peterborough	1.65680

Continued on next page

Table 1: Blah blah (Continued)

Lethbridge	-0.12766
Kamloops	0.50275
Nanaimo	-0.22200
Sarnia	-0.71754
Saint-Jean-sur-Richelieu	1.50705
Red Deer	1.52136
Chilliwack	-0.83534
Sault Ste. Marie	0.15021
Drummondville	0.30735
Fredericton	-0.15647

Tall tables

```
kbl(df, tabular = "talltblr",caption = "Blah blah") |>
  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}

```

To set outer options in `kableExtra`, we use the `kable_styling()` function and its `latex_options` argument:

```

kbl(df, tabular = "longtblr") |>
  kable_styling(latex_options = list(tabularray = c(
    caption = "A caption.",
    "headsep = 12pt"
  )))

```

Table 3:

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

Unfortunately, the `kableExtra` does not have a direct way to set inner options. 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") |>
  row_spec(2, background = "pink, ht=3.5em, valign=f") |>
  cat()
```

```
\begin{tblr}[
]
{
  colspec={Q[halign=l]Q[halign=r]Q[halign=r]Q[halign=r]},
  rowspec={Q[]Q[]Q[bg=pink, ht=3.5em, valign=f]Q[]Q[]Q[]},
}
\hline
car & mpg & cyl & disp\\
\hline
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\\
\hline
\end{tblr}
```

In the code above, you’ll note that the `rowspec` line has been modified: The second row will now be taller, and the text will be foot-aligned. The compiled table looks like this:

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

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",
  note = "A first note",
  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 = c(
      "caption={A caption.}",
      "remark{Source}={A remark.}",
      "remark{Note}={Another remark.}",
      "note{$\\dag$}={A note.}"
    )
  )
)
```

Table 5: A caption.

blah	location
blah blah [†]	Montreal
blah blah blah	Quebec

[†] A note.

Source: A remark.

Note: Another remark.

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.

Issue #616

```
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

Issue #634

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

Issue #636

```

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
o	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

Issue #645

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

	mpg	cyl	disp
Mazda RX4	21.0	6	160
Mazda RX4 Wag	21.0	6	160
Datsun 710	22.8	4	108

Issue #660

```
kbl(mtcars[1:7, ], align = "c", tabular = "tblr", booktabs = TRUE, linesep = "") %>%
  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

Issue #701

```
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
aa	
	1
a	2
a	3
bb	
	4
b	5
b	6
cc	
	7
c	8
c	9
dd	
	10
d	11
d	12

Issue #738

```
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.

Issue #366

```
groups <- 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)~', '0.67(0.19, 2.3)', 'Ref', '0.38(0.16,
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)~'), 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', '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	adj	uni1	adj1
a				
Other	Ref	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	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) [^]
g				
0-1	Ref	Ref	Ref	Ref
2-5	2.8(1.2, 6.3)* [^]	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) [^]
h				
Yes	Ref	NA	Ref	NA
No	0.59(0.28, 1.2)	NA	0.99(0.33, 3.0)	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