tinytable tutorial

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ti	nytable is easy to use:	
	library(tinytable) gload::load_all()	
i	Loading tinytable	
x	<- mtcars[1:4, 1:5]	
+ i	nytahle(y)	

mpg	cyl	disp	hp	drat
21	6	160	110	3.9
21	6	160	110	3.9
22.8	4	108	93	3.85
21.4	6	258	110	3.08

1 Output formats

tinytable can produce tables in HTML, Markdown, or LaTeX (PDF) format. To choose, we use the output argument:

```
tinytable(x, output = "html")
tinytable(x, output = "latex")
tinytable(x, output = "markdown")
```

When calling tinytable from a Quarto or Rmarkdown document, tinytable detects the output format automatically and generates an HTML or LaTeX table as appropriate. This means that we do not need to explicitly specify the output format.

2 Style

The style() function allows us to apply visual styles to our table. This includes customizing features such as:

- Text color
- Background color
- Widths
- Heights
- Alignment
- Text Wrapping
- Column and Row Spacing
- Cell Merging
- Multi-row or column spans
- Border Styling
- Font Styling
- Header Customization

The main arguments of the style() function are rather self-explanatory:

• i row numbers: integer vector or NULL to style all rows.

• j column numbers: integer vector or NULL to style all columns.

• color: text color

• background: background color

bold: bold textitalic: bold text

• align: horizontal alignment

In addition, style() accepts two more arguments which allow unlimited possibilities for customizing every possible aspect of your tables in HTML or LaTeX (PDF):

```
• latex = latexOptions() for tabularray
```

• html = htmlOptions() for Bootstrap

We discuss these extra arguments near the end of this page.

2.1 Cells

To style individual cells, we use the style_cell() function. The first two arguments (i and j) identify the positions of the cells of interest, by row and column numbers respectively. To style a cell in the 2nd row and 3rd column, we can do:

```
tinytable(x) |>
style(
   i = 2,
   j = 3,
   background = "black",
   color = "white",
   bold = TRUE,
   italic = TRUE)
```

mpg	cyl	disp	hp	drat
21	6	160	110	3.9
21	6	160	110	3.9
22.8	4	108	93	3.85
21.4	6	258	110	3.08

The i and j accept vectors of integers to modify several cells at once:

```
tinytable(x) |> style(2, c(1, 3), background = "olive")
```

mpg	cyl	disp	hp	drat
21	6	160	110	3.9
21	6	160	110	3.9
22.8	4	108	93	3.85
21.4	6	258	110	3.08

We can style all cells in a table by omitting the i and j arguments:

```
tinytable(x) |> style(background = "black", color = "white", bold = TRUE)
```

mpg	cyl	disp	hp	drat
21	6	160	110	3.9
21	6	160	110	3.9
22.8	4	108	93	3.85
21.4	6	258	110	3.08

2.2 Rows and columns

We can style entire rows by omitting the j argument, or style entire columns by omitting the i argument:

```
tinytable(x) |> style(i = 1:2, color = "blue")
```

mpg	cyl	disp	hp	drat
21	6	160	110	3.9
21	6	160	110	3.9
22.8	4	108	93	3.85
21.4	6	258	110	3.08

```
tinytable(x) \mid > style(j = c(2, 4), bold = TRUE)
```

mpg	cyl	disp	hp	drat
21	6	160	110	3.9
21	6	160	110	3.9
22.8	4	108	93	3.85
21.4	6	258	110	3.08

3 Headers

The header can be omitted from the table by deleting the column names in the x data frame:

```
k <- x
colnames(k) <- NULL
tinytable(k)</pre>
```

21	6	160	110	3.9
21	6	160	110	3.9
22.8	4	108	93	3.85
21.4	6	258	110	3.08

4 Captions and cross-references

```
tinytable(x, caption = "Data about cars.")
```

Table 1: Data about cars.

mpg	cyl	disp	hp	drat
21	6	160	110	3.9
21	6	160	110	3.9
22.8	4	108	93	3.85
21.4	6	258	110	3.08

TODO: Cross-references

5 Customization: HTML with Bootstrap

```
knitr::opts_chunk$set(eval = knitr::is_html_output())
tinytable(x, html = html0ptions(class = "table table-dark"))
```

6 Customization: LaTeX with tabularray

```
knitr::opts_chunk$set(eval = knitr::is_latex_output())

tinytable(x, latex = latexOptions(theme = "void", hlines = ""))
knitr::opts_chunk$set(eval = TRUE)
```