

Level up your tables with

tableHTML

in R



tableHTML - basics

- This is a package for building CSS-ible HTML tables in an easy and intuitive way.
- These are compatible with any application that accepts HTML (e.g. shiny, rmarkdown).
- The main function tableHTML will convert a data.frame or matrix or any other object that can be converted into a data.frame into an HTML table
- Using the function on R Studio will print the table on the viewer otherwise it will use the default browser.
- The default tables are built without any CSS in order to allow for full flexibility in design
- The package has been developed so that the functions are chained with the %>%
 (pipe) operator which comes from the magrittr package
- The tables can be exported as images using tableHTML to image()

```
# install.packages('tableHTML')
```

round = 1,

replace NA = '')

library(tableHTML) my_data <- mtcars %>% head() %>% '['(1:5) tableHTML <- my_data %>% tableHTML(rownames = TRUE,

	mpg	cyl	disp	hp	drat
Mazda RX4	21	6	160	110	3.9
Mazda RX4 Wag	21	6	160	110	3.9
Datsun 710	22.8	4	108	93	3.8
Hornet 4 Drive	21.4	6	258	110	3.1
Hornet Sportabout	18.7	8	360	175	3.1
Valiant	18.1	6	225	105	2.8

Adding themes

- The package was built to give the absolute freedom to users to design their own HTML tables the way the want
- However, we have included three categories of themes to give the users a way to build nice looking tables very fast

```
tableHTML %>%
  add_theme('scientific')

tableHTML %>%
  add_theme('rshiny-blue')

tableHTML %>%
  add_theme('colorize')
```

	mpg	cyl	disp hp drat
Mazda RX4	21	6	160 110 3.9
Mazda RX4 Wag	21	6	160 110 3.9
Datsun 710	22.8	4	108 93 3.8
Hornet 4 Drive	21.4	6	258 110 3.1
Hornet Sportabout	18.7	8	360 175 3.1
Valiant	18.1	6	225 105 2.8

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Datsun 710	22.8	4	108	93	3.8
Hornet 4 Drive	21.4	6	258	110	3.1
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Valiant	18.1	6	225	105	2.8

Basic adjustment options in tableHTML()

- The tabelHTML() functions can easily be used to adjust the table
- You can add / remove rownames
- Add a specific CSS-class
- Change the width of the columns
- Add second_headers and row_groups
- Round numeric columns in the table
- Provide a replacement string for NA values
- Add a caption / footer
- Remove the borders

This is a caption						
	col1		col2			
	mpg	cyl	disp	hp	drat	
	21	6	160	110	3.9	
Group 1	21	6	160	110	3.9	
	22.8	4	108	93	3.8	
	21.4	6	258	110	3.1	
Group 2	18.7	8	360	175	3.1	
	18.1	6	225	105	2.8	
This is a footer						

my_data %>%	
tableHTML(rowr	names = FALSE,
clas	ss = 'my_table',
widt	lhs = rep(80, 6),
seco	$ind_headers = list(c(1, 2, 3),$
	c('', 'col1', 'col2')),
row_	groups = list(c(3, 3),
	c('Group 1', 'Group 2')),
rour	ad = 1,
repl	lace_NA = '',
capt	tion = 'This is a caption',
foot	ter = 'This is a footer')

add_css_* family of functions

- These functions add inline CSS to the HTML table
- You can chain as many functions as you want when building your HTML table
- The CSS code is added within the HTML table
- This is ok for simple table styling but for more complex CSS styles it would still be good practice to use a separate css file

	mpg	cyl	disp	hp	drat
Mazda RX4	21	6	160	110	3.9
Mazda RX4 Wag	21	6	160	110	3.9
Datsun 710	22.8	4	108	93	3.85
Hornet 4 Drive	21.4	6	258	110	3.08
Hornet Sportabout	18.7	8	360	175	3.15
Valiant	18.1	6	225	105	2.76

Shiny

- Using tableHTML with shiny is very easy
- The implementation is simple since internally tableHTML uses htmltools::HTML to convert the table into an HTML object
- Simply using render_tableHTML and tableHTML_output will be enough

```
library(shiny)
shinyApp(
    ui = fluidPage(
        fluidRow(
column(width = 1),
        tableHTML_output('mytable'))
),
server = function(input, output) {
    output$mytable <- render_tableHTML(
        tableHTML(my_data)
    )}</pre>
```

