

# Package ‘highlightHTML’

January 2, 2017

**Type** Package

**Title** Highlight HTML Text and Tables

**Version** 0.1.1

**Maintainer** Brandon LeBeau <lebebr01+highlightHTML@gmail.com>

**Description** A tool to highlight specific cells in an HTML table or more generally text from an HTML document. This may be helpful for those using markdown to create reproducible documents. In addition, the ability to compile directly from R markdown files is also possible using the 'knitr' package.

**Depends** R (>= 3.0.0)

**Suggests** shiny, testthat, dplyr, knitr, rmarkdown

**License** MIT + file LICENSE

**RoxygenNote** 5.0.1

**VignetteBuilder** knitr

**URL** <https://github.com/lebebr01/highlightHTML>

**BugReports** <https://github.com/lebebr01/highlightHTML/issues>

**NeedsCompilation** no

**Author** Brandon LeBeau [aut, cre]

**Repository** CRAN

**Date/Publication** 2017-01-02 22:22:23

## R topics documented:

highlight_html . . . . .	2
print.highlightHTML . . . . .	3
rgb2hex . . . . .	4
shinyRGB2hex . . . . .	4
table_id_inject . . . . .	5

<b>Index</b>	<b>6</b>
--------------	----------

---

highlight_html	<i>Master highlight HTML function</i>
----------------	---------------------------------------

---

### Description

This function inputs and exports an HTML file. The HTML file is then processed to search for tags that inject CSS automatically into the HTML file.

### Usage

```
highlight_html(input, output, tags, update_css = TRUE, browse = TRUE,  
              print = FALSE, render = FALSE)
```

### Arguments

input	File name of HTML file to highlight the cells of the table or text. Alternatively, if render = TRUE, a Rmd or md file can be specified as the input.
output	Output file name of highlighted HTML file
tags	character vector with CSS tags to be added
update_css	TRUE/FALSE variable indicating whether the CSS should be updated
browse	logical, If TRUE (default) output file opens in default browser, if FALSE, file is written, but not opened in browser.
print	logical, if TRUE print output to R console, if false (default) output is filtered to other methods (see browse or output).
render	logical, if TRUE will call the rmarkdown::render() function to convert Rmd or md files to html prior to injecting CSS.

### Details

A function that allows the alteration of HTML using CSS. This may be helpful coming from a markdown or R markdown file to alter aspects of the page based on a specific criteria. This function handles both tables as well as normal text. The options are only limited based on your knowledge of CSS.

### Examples

```
# Example of simple test table  
# Change background color of table cells  
library(highlightHTML)  
  
# Setting path for example html files  
# To see path where these are saved, type file or file1 in the  
# r console.  
file <- system.file('examples', 'bgtable.html', package = 'highlightHTML')
```

```
# Creating CSS tags to inject into HTML document
tags <- c("#bgred {background-color: #FF0000;}",
         "#bgblue {background-color: #0000FF;}")

# Command to post-process HTML file - Writes to temporary file
highlight_html(input = file, output = tempfile(fileext = ".html"),
              tags = tags, update_css = TRUE, browse = FALSE)

# Change background color and text color with CSS
tags <- c("#bgred {background-color: #FF0000; color: white;}",
         "#bgblue {background-color: #0000FF; color: white;}")

# Post-process HTML file
highlight_html(input = file, output = tempfile(fileext = ".html"),
              tags = tags, update_css = TRUE, browse = TRUE, print = FALSE)

# By default the new file is opened in your default browser, here set to FALSE
highlight_html(input = file, output = tempfile(fileext = ".html"),
              tags = tags, update_css = TRUE, browse = FALSE, print = FALSE)

# Setting path for example html files
# To see path where these are saved, type file or file1 in the
# r console.
file <- system.file('examples', 'bgtext.html', package = 'highlightHTML')

# Change background color and text color with CSS
tags <- c("#bgblack {background-color: black; color: white;}",
         "#bgblue {background-color: #0000FF; color: white;}",
         "#colgreen {color: green;}")

# Post-process HTML file
highlight_html(input = file, output = tempfile(fileext = ".html"),
              tags = tags, update_css = TRUE, browse = TRUE)

# Use of render
file <- system.file('examples', 'mwe.md', package = 'highlightHTML')
tags <- c("#bgred {background-color: #FF0000; color: white;}",
         "#bgblue {background-color: #0000FF; color: white;}",
         "#bgblack {background-color: #000000; color: white;}",
         "#colgold {color: #FFD700;}")
highlight_html(input = file, output = tempfile(fileext = '.html'),
              tags = tags, update_css = TRUE, browse = TRUE, render = TRUE)
```

---

print.highlightHTML    *Prints highlightHTML object*

---

## Description

Prints highlightHTML object

**Usage**

```
## S3 method for class 'highlightHTML'
print(x, ...)
```

**Arguments**

x                    An object from highlightHTML function.  
 ...                  Additional arguments passed to function.

---

rgb2hex	<i>Convert RGB to hex</i>
---------	---------------------------

---

**Description**

Enter a list of RGB color codes, or R colors, and get the appropriate hex color code.

**Usage**

```
rgb2hex(rgbcode = NULL, rcolor = NULL)
```

**Arguments**

rgbcode             List of rgb color codes, each list must be a vector of three objects representing the three components of rgb color code from 0 - 255.  
 rcolor              A list of R color names

**Examples**

```
rgb2hex(rcolor = list("sienna2", "thistle1"))
rgb2hex(rcolor = list("sienna2", "thistle1"), rgbcode = list('orange' = c(238, 74, 24),
'raw umber' = c(113, 75, 35)))
rgb2hex(rgbcode = list('orange' = c(238, 74, 24), 'raw umber' = c(113, 75, 35)))
```

---

shinyRGB2hex	<i>Run shiny app</i>
--------------	----------------------

---

**Description**

Function that automatically opens shiny app to convert rgb codes to hexadecimal codes

**Usage**

```
shinyRGB2hex(...)
```

**Arguments**

...                  Other arguments to pass, currently does nothing.

---

table_id_inject	<i>Table hash addition</i>
-----------------	----------------------------

---

**Description**

A helper function to include a hashtag id code within an R table.

**Usage**

```
table_id_inject(x, id, conditions, variable = NULL)
```

**Arguments**

x	A table object
id	A vector of css id(s) to include
conditions	A vector of conditions to include id. Must be same length as id
variable	An optional list of column names to specify search of conditions. More than one variable can be specified in each element of the list. The list must be the same length as the conditions or id arguments.

**Examples**

```
library(dplyr)
library(highlightHTML)

summ_table <- mtcars %>%
  group_by(cyl) %>%
  summarise(avg_mpg = mean(mpg), sd_mpg = sd(mpg)) %>%
  data.frame()

table_id_inject(summ_table, id = c('#bgred', '#bgblue'),
  conditions = c('< 2', '> 16'))

table_id_inject(summ_table, id = c('#bgred', '#bgblue'),
  conditions = c('< 2', '< 16'),
  variable = list(c('sd_mpg'), c('avg_mpg')))
```

# Index

`highlight_html`, 2

`print.highlightHTML`, 3

`rgb2hex`, 4

`shinyRGB2hex`, 4

`table_id_inject`, 5