

Plot Colour Helper

Dean Attali

@daattali

deanattali.com

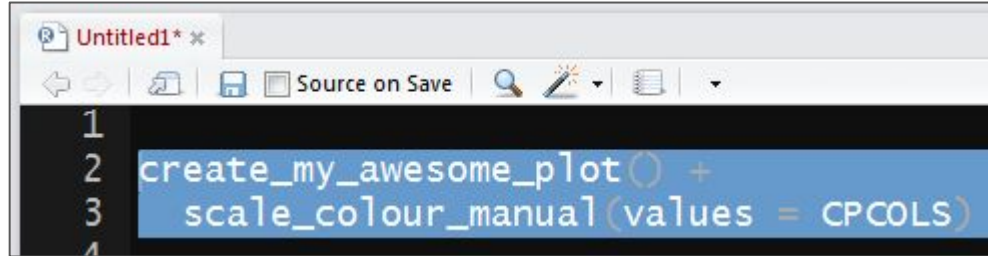
github.com/daattali/colourpicker



July 6, 2017

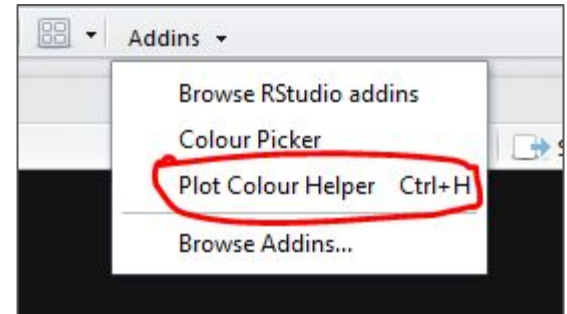
```
Untitled1* x
Source on Save
1
2 create_my_awesome_plot()
3
4 # Ah, the colours don't work!
5
6 create_my_awesome_plot() +
7   scale_colour_manual(values = c(x, y, z))
8
9 # Nope, those colours aren't good...
10
11 create_my_awesome_plot() +
12   scale_colour_manual(values = c(A, B, C))
13
14 # still ugly...
15
```





The screenshot shows an RStudio editor window titled 'Untitled1*'. The code in the editor is as follows:

```
1  
2 create_my_awesome_plot() +  
3   scale_colour_manual(values = CPCOLS)  
4
```



Cancel Plot Colour Helper By Dean Attali Done

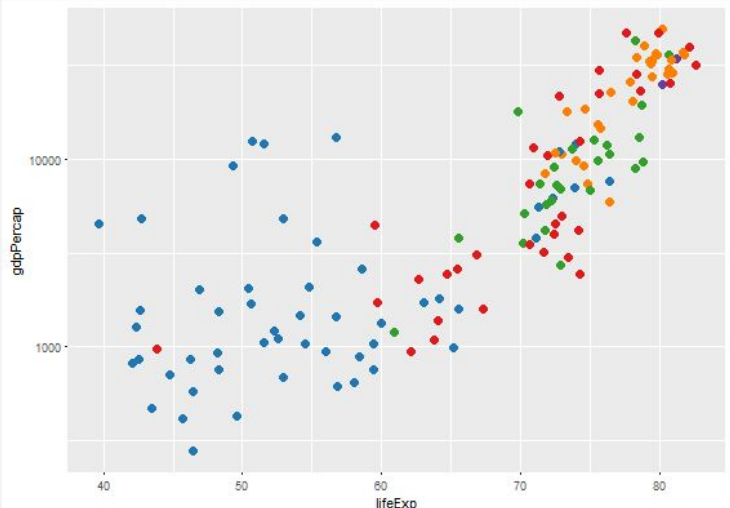
Selected colours - Use `CPCOLS` to access this list

+ 🗑️ 1 2 3 4 5

Return colour name (eg. "white") instead of HEX value (eg. #FFFFFF) when possible
[Show keyboard shortcuts](#)




R code for a plot
Use the variable `CPCOLS` to refer to the list of selected colours.

```
create_my_awesome_plot() +  
  scale_color_manual(values = CPCOLS)
```



continent

- Africa
- Americas
- Asia
- Europe
- Oceania

`</>`
Plot code
Any colour
Find R colour
All R colours

Cancel Plot Colour Helper By Dean Attali Done

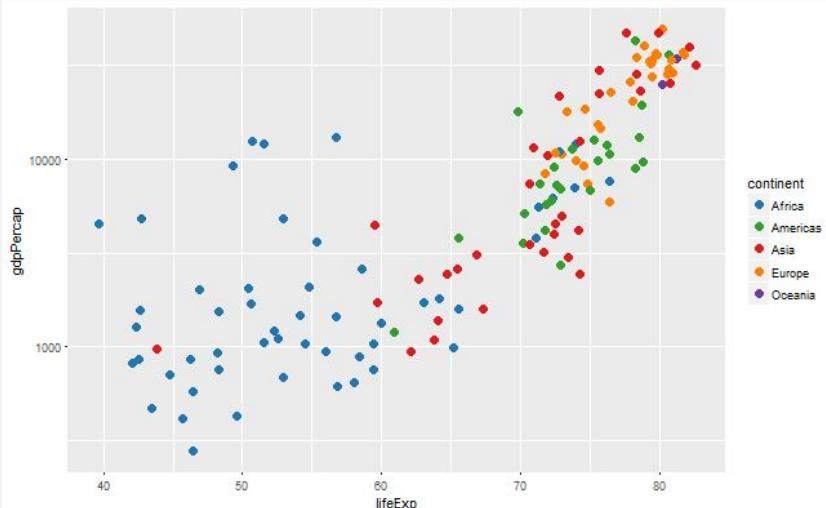
Selected colours - Use `CPCOLS` to access this list

+ 🗑️ 1 2 3 4 5




Return colour name (eg. "white") instead of HEX value (eg. #FFFFFF) when possible
[Show keyboard shortcuts](#)

R code for a plot
Use the variable `CPCOLS` to refer to the list of selected colours.

```
create_my_awesome_plot() +  
  scale_color_manual(values = CPCOLS)
```



A scatter plot showing the relationship between Life Expectancy (x-axis, 40-80) and GDP per capita (y-axis, 1000-10000). The data points are colored by continent: Africa (blue), Americas (green), Asia (red), Europe (orange), and Oceania (purple). The plot shows a positive correlation between life expectancy and GDP per capita, with a clear separation between Africa and the other continents.

`</>`
Plot code
Any colour
Find R colour
All R colours

Cancel Plot Colour Helper By Dean Attali Done

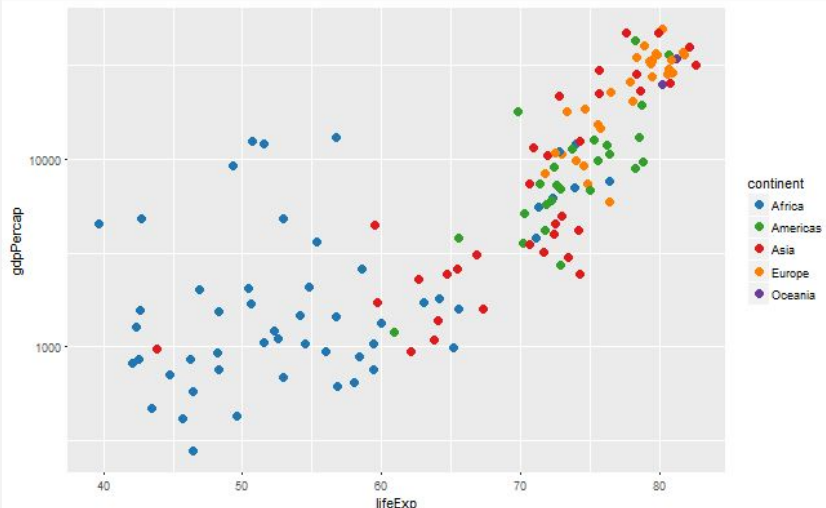
Selected colours - Use `CPCOLS` to access this list

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Return colour name (eg. "white") instead of HEX value (eg. #FFFFFF) when possible
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R code for a plot
Use the variable `CPCOLS` to refer to the list of selected colours.

```
create_my_awesome_plot() +  
  scale_color_manual(values = CPCOLS)
```



The scatter plot shows the relationship between Life Expectancy (x-axis, 40-80) and GDP per capita (y-axis, 1000-10000) across different continents. The data points are colored by continent: Africa (blue), Americas (green), Asia (red), Europe (orange), and Oceania (purple). The plot shows a clear positive correlation between life expectancy and GDP per capita, with most points clustered in the upper right quadrant (high life expectancy and high GDP per capita). The legend on the right side of the plot identifies the continents by color.




continent
● Africa
● Americas
● Asia
● Europe
● Oceania

LifeExp

gdpPerCap

10000
1000

40 50 60 70 80

`</>`
Plot code
Any colour
Find R colour
All R colours

Cancel Done

Plot Colour Helper By Dean Attali

Selected colours - Use `CPCOLS` to access this list

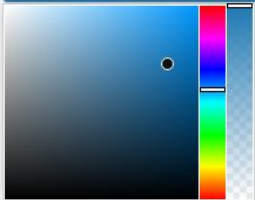
+ 🗑️ 1 2 3 4 5

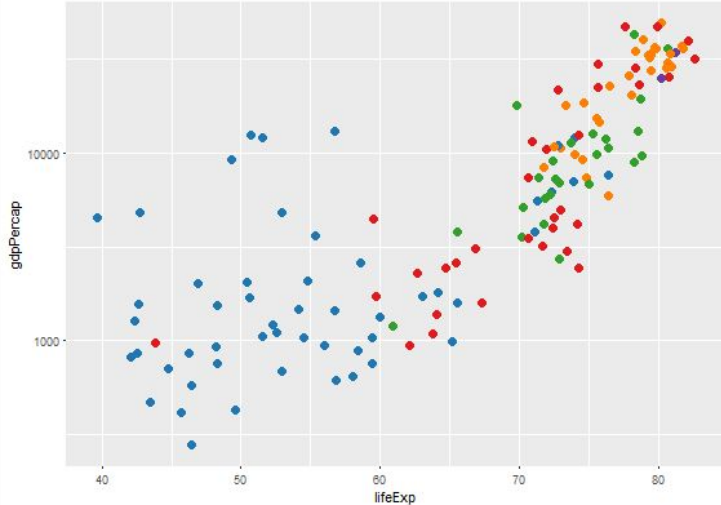
Return colour name (eg. "white") instead of HEX value (eg. #FFFFFF) when possible

[Show keyboard shortcuts](#)

Select any colour

#1F78B4





continent

- Africa
- Americas
- Asia
- Europe
- Oceania

`</>` Plot code 🌐 Any colour 🔍 Find R colour 🖌️ All R colours

Cancel Plot Colour Helper By Dean Attali Done

Selected colours - Use `CPCOLS` to access this list

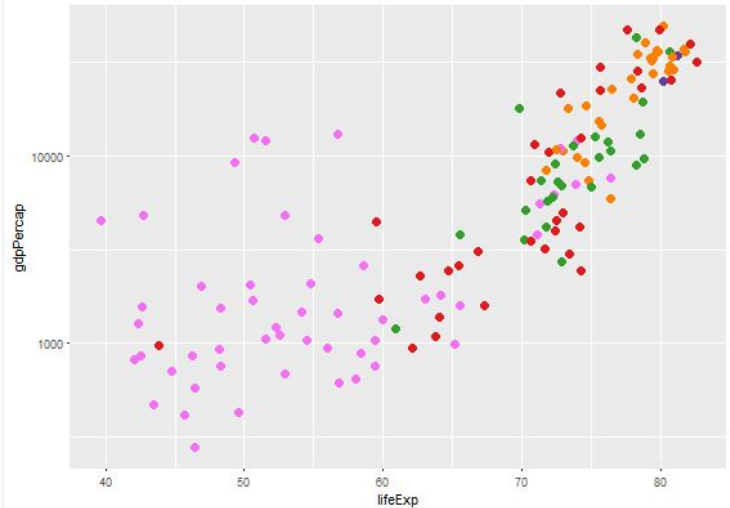
+ 🗑️ 1 2 3 4 5

Return colour name (eg. "white") instead of HEX value (eg. #FFFFFF) when possible
[Show keyboard shortcuts](#)

Select any colour

#F76FF7





continent

- Africa
- Americas
- Asia
- Europe
- Oceania

`</>` Plot code 🌐 Any colour 🔍 Find R colour 🖌️ All R colours

Cancel Plot Colour Helper By Dean Attali Done

Selected colours - Use `CPCOLS` to access this list

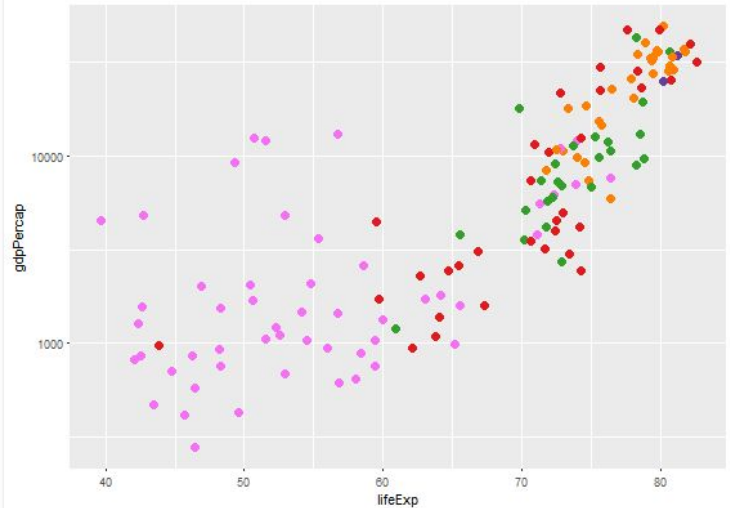
+ 🗑️ 1 2 3 4 5

Return colour name (eg. "white") instead of HEX value (eg. #FFFFFF) when possible
[Show keyboard shortcuts](#)

Select any colour

#F76FF7





continent

- Africa
- Americas
- Asia
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`</>` Plot code 🌐 Any colour 🔍 Find R colour 🖌️ All R colours

Cancel Plot Colour Helper By Dean Attali Done

Selected colours - Use `CPCOLS` to access this list

+ 🗑️ 1 2 3 4 5 6

Return colour name (eg. "white") instead of HEX value (eg. #FFFFFF) when possible
[Show keyboard shortcuts](#)

R code for a plot
Use the variable `CPCOLS` to refer to the list of selected colours.

```
create_my_awesome_plot() +  
  scale_color_manual(values = CPCOLS[1:5]) +  
  theme(panel.background = element_rect(fill = CPCOLS[6]))
```

continent

- Africa
- Americas
- Asia
- Europe
- Oceania

The scatter plot shows a positive correlation between life expectancy (lifeExp) on the x-axis and GDP per capita (gdpPerCap) on the y-axis. The x-axis ranges from 40 to 80, and the y-axis is on a logarithmic scale from 1000 to 10000. Data points are colored by continent: Africa (pink), Americas (green), Asia (red), Europe (orange), and Oceania (purple). The plot area has a yellow background.

lifeExp

gdpPerCap

Plot code Any colour Find R colour All R colours



```
Untitled1* x
Source on Save
Run
Source
1
2 CPCOLS <- c("#FA71FA", "#33a02c", "#e31a1c",
3             "#ff7f00", "#6a3d9a", "#FFFCAD")
4
5 create_my_awesome_plot() +
6   scale_color_manual(values = CPCOLS[1:5]) +
7   theme(panel.background = element_rect(fill = CPCOLS[6]))
8
```

Environment History Build Git

Import Dataset

Global Environment

values

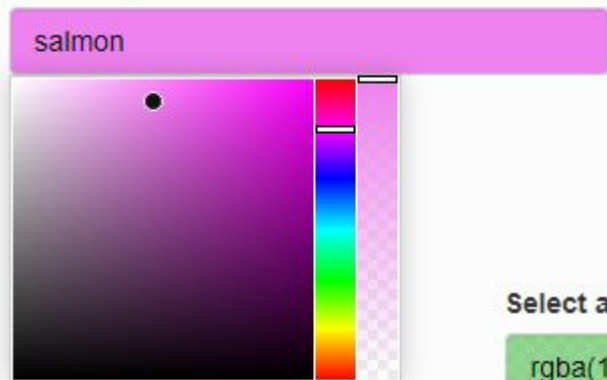
CPCOLS	chr [1:6]	"#FA71FA"	"#33a02c"	"#e31a1c"	"#ff7f00"	"#...
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Functions

create_my_awesome...	function ()
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colourpicker::colourInput()

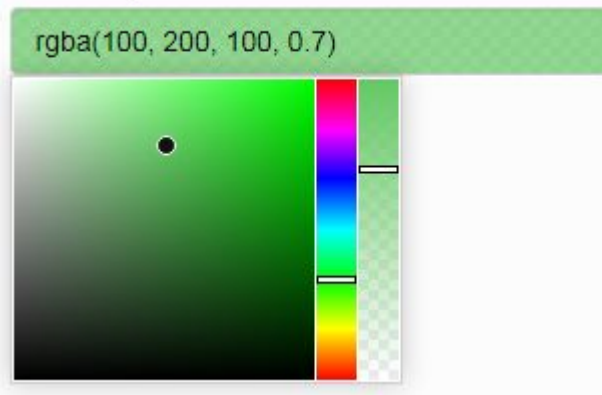
Select any colour



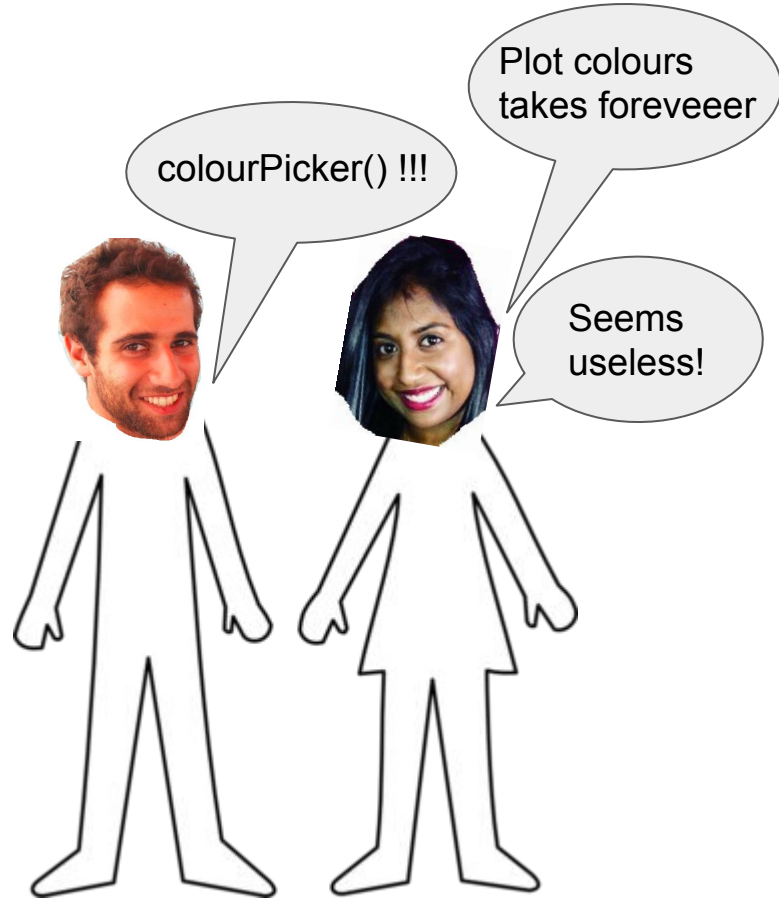
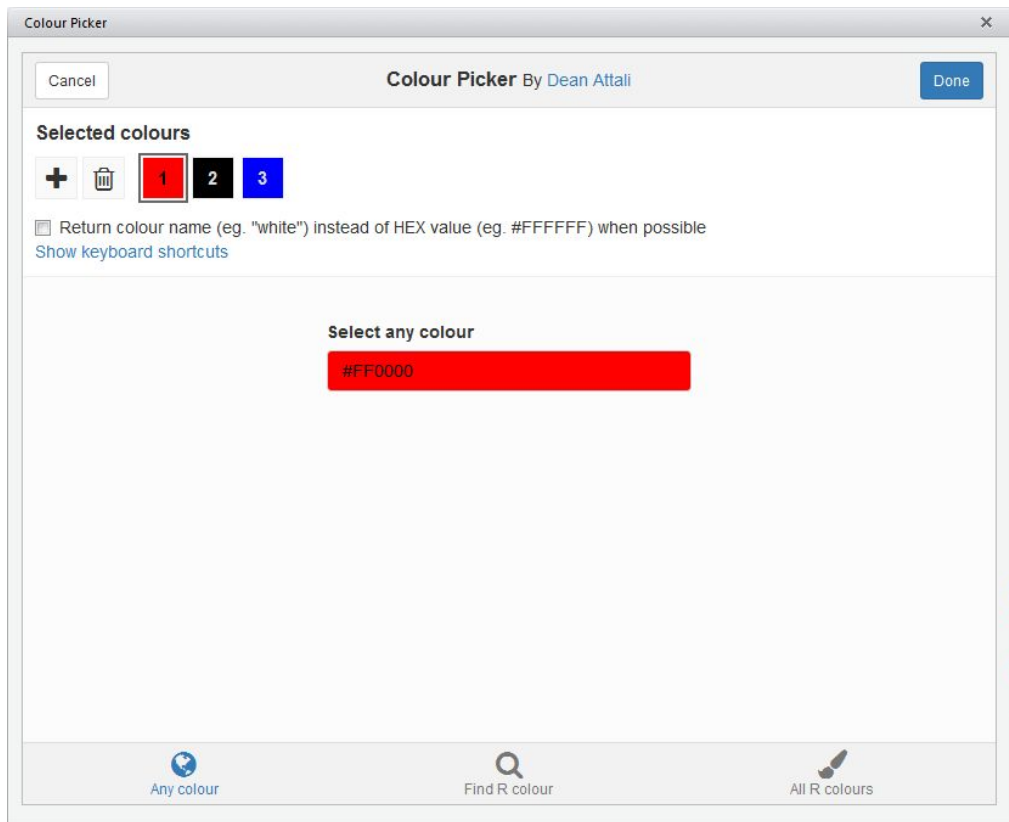
Select any colour



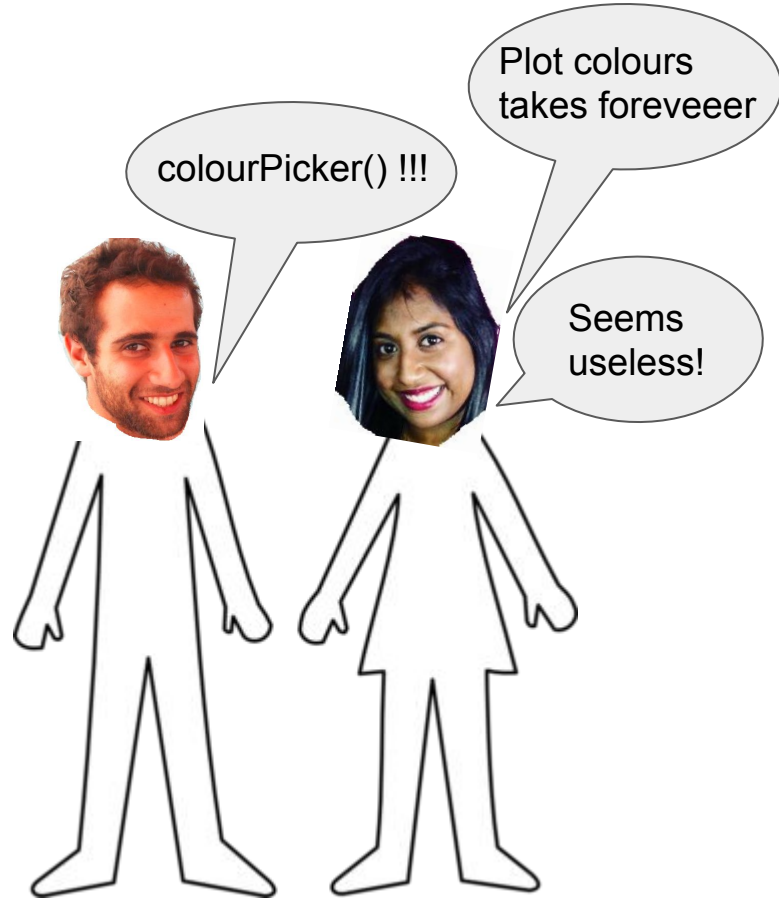
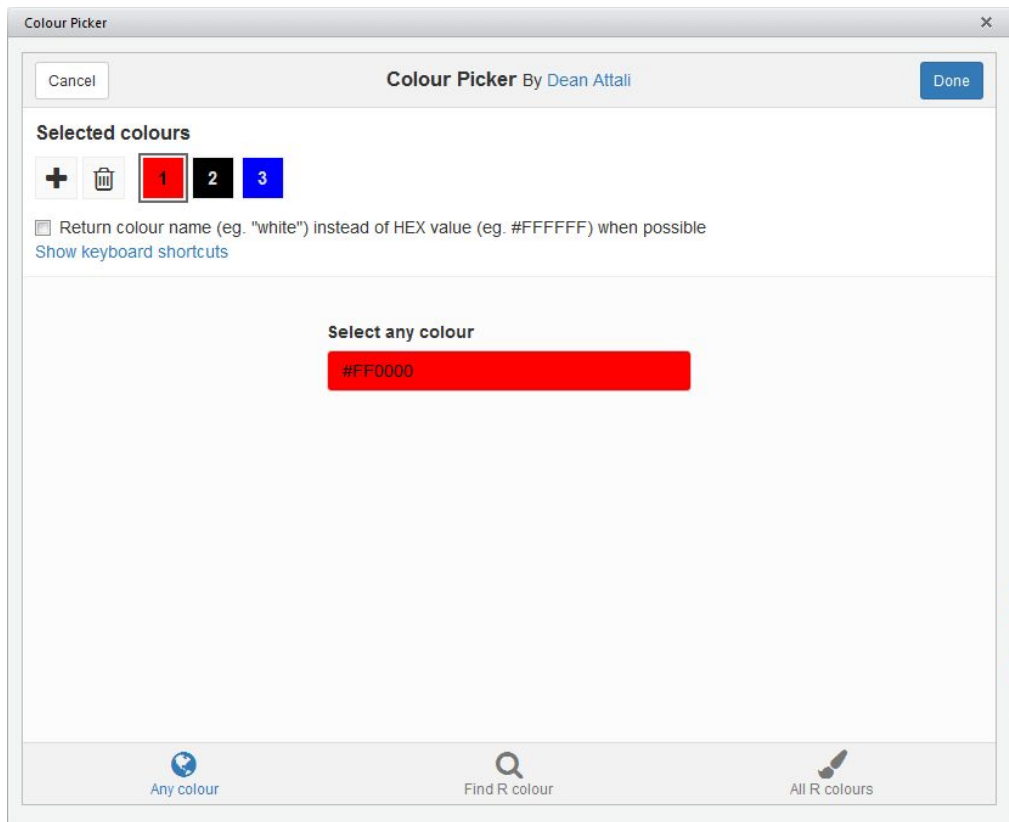
Select any colour



```
> colourpicker::colourPicker()
```



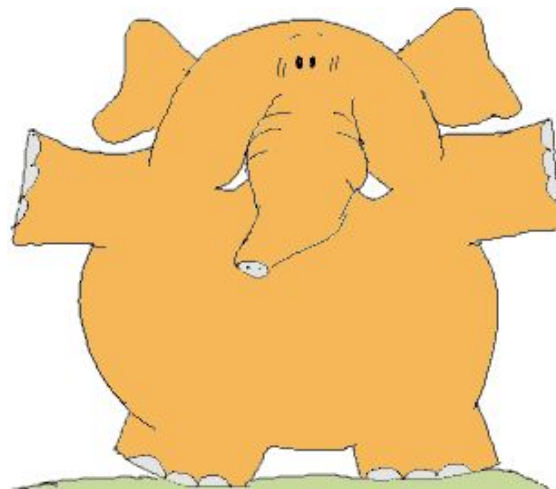
```
> colourpicker::colourPicker()
```



Feedback/suggestions always wanted!



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BIG THANK YOU

RStudio (Joe Cheng!), Jenny Bryan,
R community, useR organizers