Cheatography

Data Visualization in R through ggvis Cheat Sheet by Anuj Shukla 18BCE0163 (anujshukla) via cheatography.com/126293/cs/24471/

| Installation | Multiple Layer | Output | Graphics |
|--|--|--|--|
| install.packages("ggvis") library(ggvis) -install.packages("ggvis") will install all the required packages you need for visualization through ggvis -library(ggvis) will call the ggvis package to be used in your visualization | <pre>mtcars %>% ggvis(~wt, ~mpg) %>% layer_smooths(span = 1) %>% layer_smooths(span = 0.3, stroke := "- red")</pre> | Model and the second se | The graphics produced by ggvis are fundamentally web graphics and work very differ- ently from tradit- ional R graphics. This allows us to |
| Layers Simple Layer | I have taken the mtcars dataset and visualized the multiple layers using different strokes | Popular In-Built plot types 1. layer_points() | implement exciting new features like interactivity The goal of ggvis is |
| <pre>mtcars %>% ggvis(~mpg, ~disp, fill = ~vs) %>% layer_points() Here I am using the dataset mtcars and visualising it through layer points. Output</pre> | Output | 2. layer_lines() 3. layer_bars() 4. layer_smooths() 5. layer_histograms() Global Vs Local properties A property that is set inside ggvis() is applied globally. While a property set inside layer_ <marks>() is applied locally. Local properties can override global properties when applicable.</marks> | to make it easy to build interactive graphics for explor- atory data analysis. ggvis has a similar underlying theory to ggplot2 (the grammar of graphics). Scale Types Any visual property in the visual- ization can be adjusted with scale(). ggvis provides several different functions for creating scales: |
| to the second se | | | |
| | | | |
| | By Anuj Shukla 18BCE0163 | | |

(anujshukla) cheatography.com/anujshukla/ Published 27th September, 2020. Last updated 27th September, 2020. Page 1 of 2. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords! http://crosswordcheats.com

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| Scale Types (cont) | ggvis & interaction () | Model Prediction | Interactive Plots |
|--|---------------------------------------|--|-------------------------------------|
| <pre>scale_datetime(), scale_lo-</pre> | train_tbl %>% | faithful %>% | |
| <pre>gical(), scale_nominal(),</pre> | group_by(season,holiday) %>% | ggvis(~eruptions,~waiting) | ggivs comes several |
| <pre>scale_numeric(), scale_sin-</pre> | ggvis(~count, fill = ~inter- | %>% | ggive comee coverait |
| gular() | action(season,holiday)) %>% | <pre>layer_points(fill := "gree-</pre> | input_checkbox(), |
| Code | layer_densities() | n", fillOpacity := 0.5) %>% | input_checkboxgroup |
| faithful %>% | We can also group data based on | layer_model_predictions(- | input_numeric(), |
| ggivs(~eruptions,~waiting, | interaction of two or more variables. | <pre>model = "lm", stroke := "re-</pre> | input_radiobuttons(), |
| fill = ~eruptions) %>% | group_by() creates unique groups for | d") %>% | input_select(), |
| layer_points() %>% | each distinct combination of values | layer_smooths(stroke := "- | input_slider(), and inp |
| <pre>scale_numeric("fill", range</pre> | within the grouping variables. | skyblue") | |
| <pre>= c("red","orange"))</pre> | | layer model predictions() plots the | label = "ABCD ", cho |
| | ungroup() can remove the grouping | prediction line of a model fitted to the | black") - value = "black" - Useo |
| Output | information. | data. | value = black - Use |

interactio unique c

Output

| ion() can map the properties to combinations of the variables | layer_model_predictions(model = "- _ lm") | |
|--|--|--|
| Important Important <t< td=""><td>Output</td></t<> | Output | |



| input_numeric(), |
|-------------------------|
| input_radiobuttons(), |
| input_select(), |
| input_slider(), and inp |
| |
| label = "ABCD " , cho |
| black") - |
| value = "black" - Usec |
| text() |
| map = as.name used |
| to return variable nam |
| |

Are the common argu these functions.





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