Cheatography

Data Visualization in R: ggvis Cheat Sheet by shanly3011 via cheatography.com/20988/cs/3865/

ggvis Grammar

The 4 essential components are -

- 1. Data
- 2. Coordinate system
- 3. Marks
- 4. Properties

Syntax Example-

faithful %>%

ggvis(~waiting,~eruptions)

"Waiting period", values =

%>% layer_points() %>%

add_axis("x", title =

c(1,2,3,4,5,6,7),

subdivide = 9)

We use the piping operator '%>%' for our syntaxes.

Mapping Vs Setting propeties

Mapping	Setting
= maps	:= sets property to
property to a data value	a specific size/coluor/width
Used for visualization of data	Used for customizing the appearance of plots
ggvis scales the values to a pre-	ggvis sends the colour value to vega - a javascript

Properties for points

The properties for points are fill,x, y, stroke, strokeWidth, strokeOpacity, fill, opacity, fillOpacity, shape, size

Sample code:

faithful %>%`
ggvis(~waiting,
~eruptions, fillOpacity =
~eruptions, size := 100,
fill := "red", stroke :=
"red", shape := "cross")
%>%
layer_points()

Properties for lines

The properties for lines include - x, y, fill, fillOpacity, opacity, stroke, strokeDash, strokeOpacity, and strokeWidth

Transformations

compute_smoot compute_bin() h

It transforms the data to data to data to generate a new generate a new dataframe.

Transformations (cont)

It returns a dataset It returns a with 2 variables, dataset with one named pred_ 4 variables, and the other resp_ x, x2 ,y ,y2.

Transformations (cont)

compute_count() or the in-built

Syntax: compute_smooth()

Long way: faithful %>%

%>% layer_lines()

In-built: faithful %>%

layer_densities()

"green") %>%

ggvis(~waiting, fill :=

compute_density(~waiting)

%>% ggvis(~pred_, ~resp_)

Similarly, we have

function layer_bars()

Syntax: compute_smooth()
Long way: mtcars %>%
compute_smooth(mpg ~ wt)
%>% ggvis(~pred_,~resp_)
%>% layer_lines()

In-built: mtcars %>%
ggvis(~wt,~mpg) %>%
layer_smooths()

Syntax: compute_bin()
Long way: faithful %>%
compute_bin(~waiting,
width = 5) %>% ggvis(x = ~
xmin_, x2 = ~ xmax_, y =
0, y2 = ~count_) %>%
layer_rects()

In-built: faithful %>%
ggvis(~waiting) %>%
layer_histograms(width =
5)

Transformations compute_density()

density line.

A density plot uses a line to display the density of a variable at each point in its range. It returns a data frame with two columns: pred_, the x values of the variable's density line, and resp_, the y values of the variable's



defined scale

colour/sizes

By shanly3011 cheatography.com/shanly3011/

package for further

processing

Published 9th April, 2015. Last updated 9th April, 2015. Page 1 of 1. Sponsored by **CrosswordCheats.com**Learn to solve cryptic crosswords!
http://crosswordcheats.com