

| ggvis Grammar | Properties for points | Transformations (cont) | Transformations (cont) |
|--|--|---|---|
| The 4 essential components are - 1. Data 2. Coordinate system 3. Marks 4. Properties Syntax Example- faithful %>% ggvis(waiting, eruptions) %>% add_axis("x", title = "Waiting period", values = de = 9) We use the piping operator '%>%' for our syntaxes. | The properties for points are - fill, x, y, stroke, stroke-width Sample code: ` faithful %>% ggvis(waiting, eruptions, ") %>% layer_points() %>% add_axis("x", title = "Waiting period", values = de = 9) The properties for lines include - x, y, fill, fill-opacity, stroke-width | It returns a dataset with 2 variables, one named pred_ and the other resp_. Syntax: compute_smooth() Long way: mtcars %>% compute_smooth(~mpg, ~wt) % ggvis(pred_, ~resp_) %>% layer_lines() In-built: mtcars %>% ggvis(~mpg) %>% layer_smooths() | Similarly, we have compute_count(), or the in-built function, size(). Syntax: compute_smooth() Long way: faithful %>% compute_smooth(size := 100, fill := "red") %>% ggvis(pred_, ~resp_) %>% layer_lines() In-built: faithful %>% ggvis(~waiting, fill := "green") %>% layer_densities() |
| Mapping Vs Setting properties | Properties for lines | Transformations | Transformations |
| Mapping Setting = maps := sets property property to to a specific a data value size/color/width Used for Used for customizing the visualization appearance of of data plots ggvis scales ggvis sends the the values colour value to to a pre-defined scale vega-a of javascript colour/sizes package for further processing | compute_smooth() compute_bin() It transforms the data to generate a new dataframe. It transforms the data to generate a new dataframe. | 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_rects(width = 5) | compute_density() 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 density line. |

