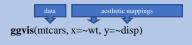
Data visualization With ggvis Cheat sheet

Basic

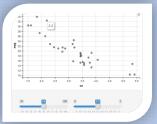
The goal of ggvis is to make it easy to build interactive graphics for exploratory data analysis. ggvis has a similar underlying theory to ggplot2 (the grammar of graphics), but it's expressed a little differently, and adds new features to make your plots interactive.

Build a graph with ggvis()



Template

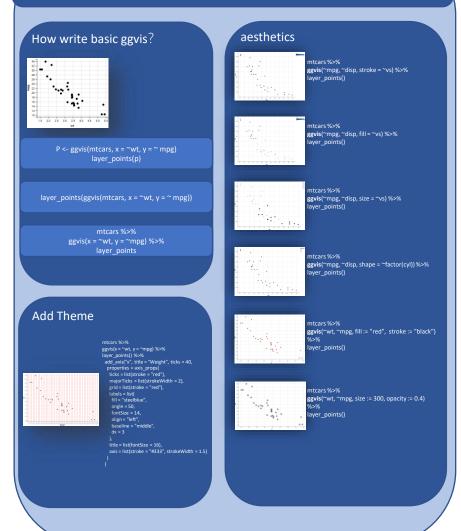
layer_points(size := input_slider(10, 100), opacity := input_slider(0, 1))%>% add_tooltip(function(df) df\$wt)



ggvis vs ggplot2

- Basic naming conversions from ggplot2 to ggvis:
 - layer, geom -> layer function
 - stat -> compute function
 - aes() -> props() ggplot() -> ggvis()
- ggvis has a function interface so you combine components using $\%{>}\%,$ not + as in ggplot2.
- Using <code>ggvis()</code> without adding any layers is analogous to <code>qplot()</code>
- ggvis makes fewer assumptions about the type of data data does not have to be a data frame until it has been processed by a

ggvis()



Layers

Simple layers

include primitives like points, lines and rectangles.



mtcars %>% ggvis(~wt, ~mpg) %>% layer_points() with properties x, y, shape, stroke, fill, strokeOpacity, fillOpacity, and opacity



df %>% ggvis(~x, ~y) %>% layer paths()

Compound layers



df <- data.frame(x = sin(t), y = cos(t)) df %>% ggvis(~x, ~y) %>% layer_paths()



mtcars %>% ggvis(~mpg) %>% layer_histograms()

Interaction

Basic interaction



Input option











Map