Texas Housing Prices: word\_document

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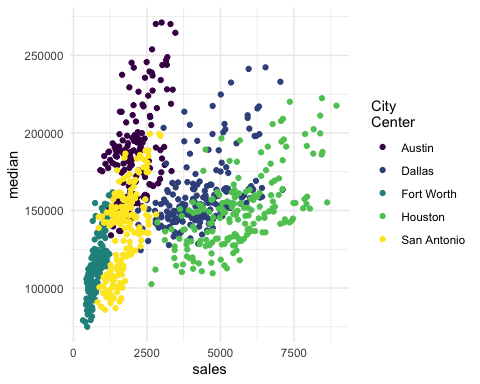
# Packages and data

The txhousing data is available when you install and load the ggplot2 package.

library(tidyverse)  
txsamp <- txhousing %>%   
 filter(city %in% c("Houston", "Fort Worth", "San Antonio", "Dallas", "Austin"))

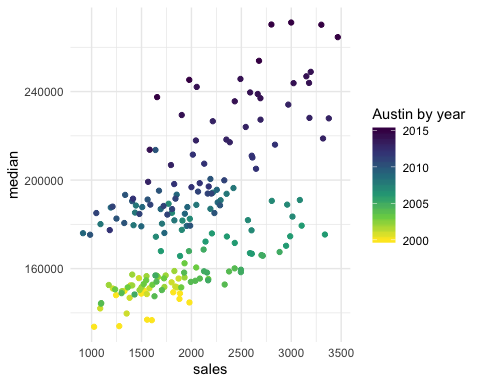
# Austin is expensive

ggplot(data = txsamp, aes(x = sales, y = median)) +  
 geom\_point(aes(colour = city)) +   
 scale\_colour\_viridis\_d("City\nCenter", option = params$viridis\_palette)



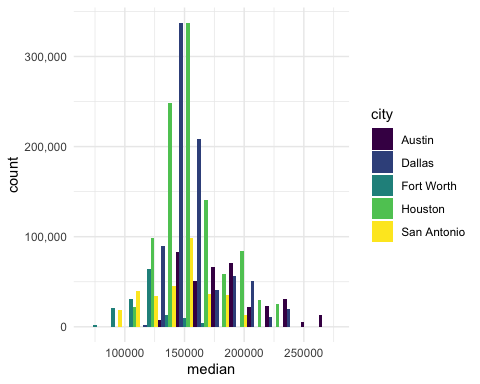
# Austin prices on the rise

ggplot(data = filter(txsamp, city == "Austin"), aes(x = sales, y = median)) +  
 geom\_point(aes(colour = year)) +   
 scale\_colour\_viridis\_c("Austin by year", option = params$viridis\_palette, direction = -1)



# Fort Worth has more affordable housing

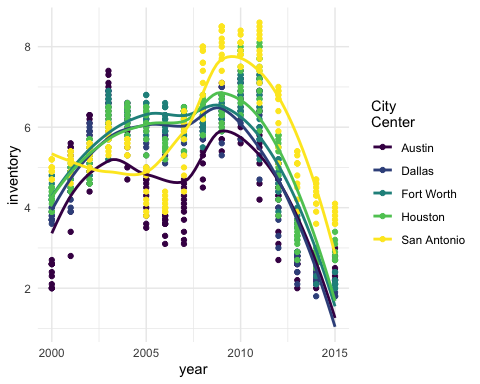
library(scales) # to make y-axis in non-scientific notation  
ggplot(txsamp, aes(x = median, fill = city)) +  
 geom\_histogram(aes(weight = sales), position = "dodge", binwidth = 15000) +  
 scale\_fill\_viridis\_d(option = params$viridis\_palette)+  
 scale\_y\_continuous(labels = comma)



# The current pace of sales is fast

“Months inventory”: amount of time it would take to sell all current listings at current pace of sales.

ggplot(data = txsamp, aes(x = year, y = inventory, colour = city)) +  
 geom\_point() +   
 geom\_smooth(se = FALSE) +  
 scale\_colour\_viridis\_d("City\nCenter", option = params$viridis\_palette)



# Thanks to…

* Jennifer Thompson: <https://github.com/jenniferthompson/ParamRmdExample>
* Garrett Grolemund: <https://rmarkdown.rstudio.com/lesson-6.html>