

Texas Housing Prices: beamer_presentation

Alison Hill

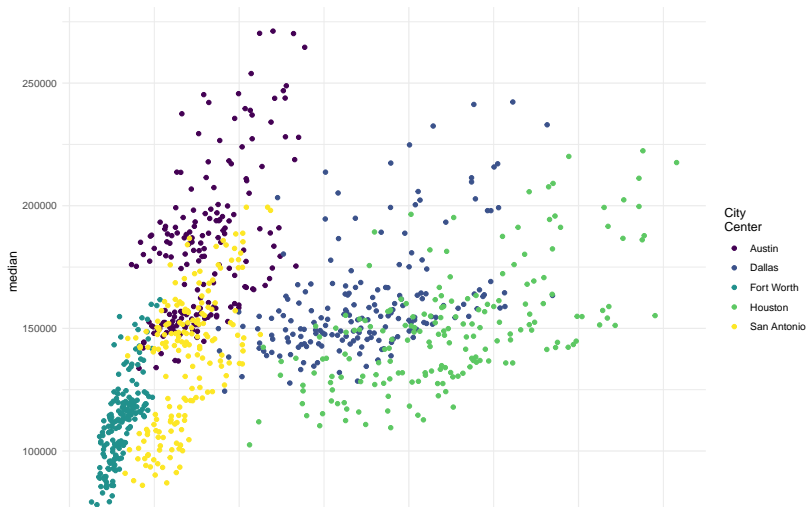
Packages and data

We'll use ggplot2 for visualization, and some light dplyr for data wrangling. The txhousing data is loaded for you when you install and load the ggplot2 package.

```
library(ggplot2) # plotting
library(dplyr) # wrangling
txsamp <- txhousing %>%
  filter(city %in% c("Houston", "Fort Worth", "San Antonio"))
```

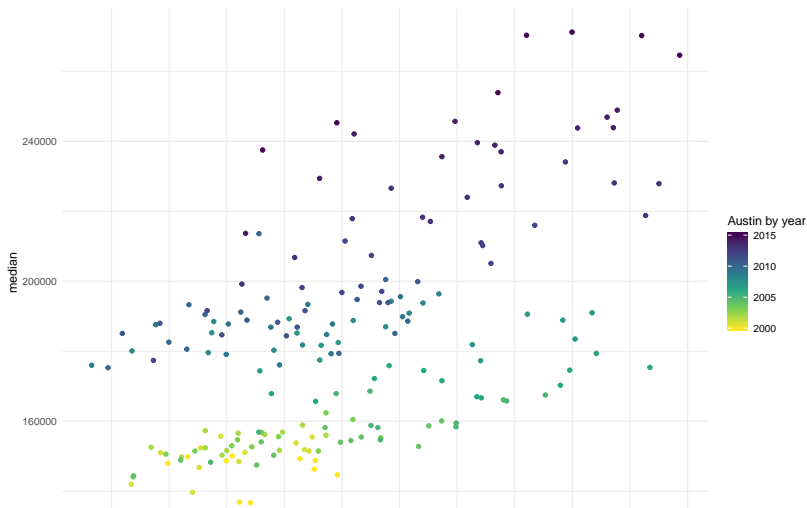
Austin is expensive

```
ggplot(data = txsamp, aes(x = sales, y = median)) +  
  geom_point(aes(colour = city)) +  
  scale_colour_viridis_d("City\nCenter", option = params$w
```



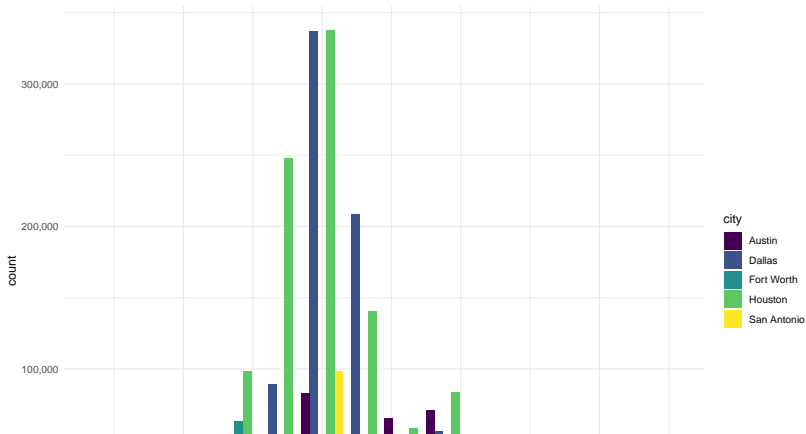
Austin prices on the rise

```
ggplot(data = filter(txsamp, city == "Austin"), aes(x = sale_price)) +  
  geom_point(aes(colour = year)) +  
  scale_colour_viridis_c("Austin by year", option = "magma")
```



Fort Worth has more affordable housing

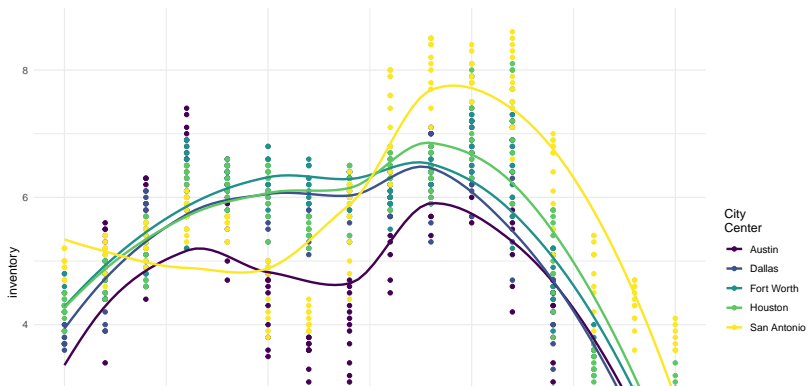
```
library(scales) # to make y-axis in non-scientific notation
ggplot(txsamp, aes(x = median, fill = city)) +
  geom_histogram(aes(weight = sales), position = "dodge",
  scale_fill_viridis_d(option = params$viridis_palette)+
  scale_y_continuous(labels = comma)
```



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 =  
  geom_point() +  
  geom_smooth(se = FALSE) +  
  scale_colour_viridis_d("City\nCenter", option = params$var
```



Thanks to...

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