STA 210 Lab

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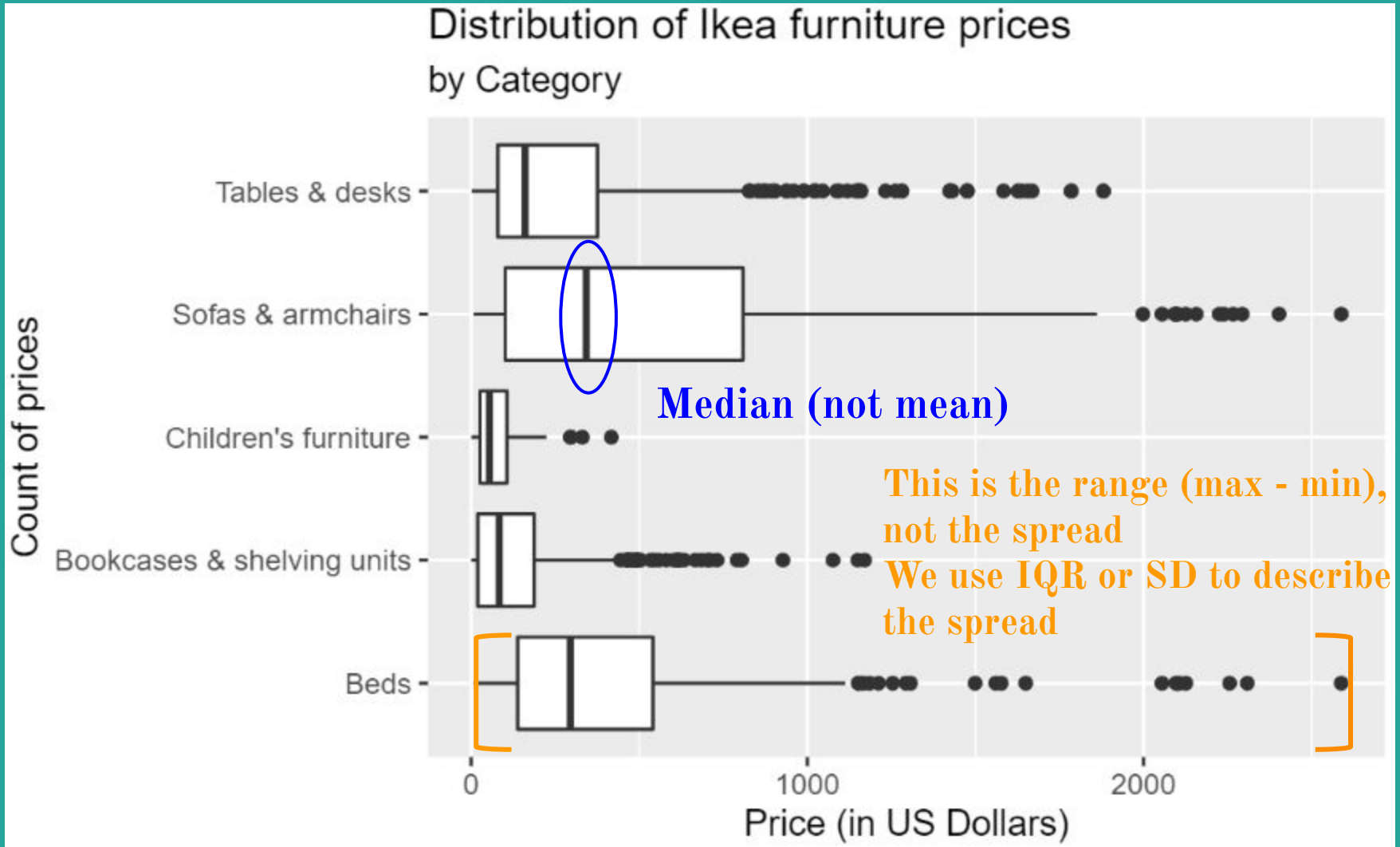
Welcome!

Notes from Lab 1

- Great job selecting pages when submitting on Gradescope!
- Check for comments on our work, even if you didn't lose points
- Read the syllabus if you haven't!


Distribution of Ikea furniture prices
by Category
Tables & desks
Sofas & armchairs
Children's furniture
Bookcases & shelving units
Beds
Count of prices
0
1000
2000
Price (in US Dollars)
Median (not mean)
This is the range (max - min), not the spread
We use IQR or SD to describe the spread

Code Style

- Which code would you rather read?
- To make code easier to read and debug, try:
  - Putting each element on a different line (‘enter’ after + signs, etc)
  - Putting spaces before and after operators (+, -, *, =)

```{r}
ggplot(data=ikea,aes(x=price_usd))+geom_histogram(binwidth=100)+geom_vline(xintercept
=median(ikea$price_usd),color="red")+geom_text(aes(x=200+10,label="150",y=500),colour
="blue",angle=0,text=element_text(size=11))+labs(x="Price (USD)",y="Count",title
="Histogram of Ikea Furniture Pirces")
```

```{r}
ggplot(data = ikea, aes(x = price_usd)) +
  geom_histogram(binwidth = 100) +
  geom_vline(xintercept = median(ikea$price_usd), color = "red") +
  geom_text(aes(x = 210, label = "150", y = 500), color = "blue", angle = 0,
            text = element_text(size = 11)) +
  labs(x = "Price (USD)", y = "Count", title = "Histogram of Ikea Furniture Pirces")
```

Today's lab:

- Remember to make at least 3 commits to GitHub!
- Will likely want to reference the past lectures on SLR for this lab:
  - Simple linear regression (SLR)
  - SLR: Model fitting in R with tidymodels
  - SLR: Prediction + model evaluation
  - SLR: Simulation-based inference