

M Hil

- Tanya Shapiro @tanya_shapiro
- Obsessed with data viz
- Part of the online R community
- Doing data things for the past 5 years
- Partnering with WWC all about helping women in tech!

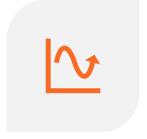


WOMEN WHO CODE

What We'll Learn Today- How To...



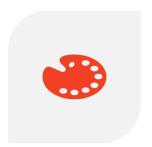
WRANGLE, CLEAN, AND MANIPULATE DATA



CREATE DIFFERENT TYPES OF PLOTS



ANNOTATE PLOTS TO GIVE OUR STORY CONTEXT



SPRUCE UP PLOTS
WITH CUSTOM THEMES

Phases of Data Visualization



Procuring the Ingredients
TidyTuesday dataset



Preparing the Ingredientsdplyr



Cooking ggplot2

Quick Intro to ggplot concepts

use + to keep building!

- Aes common aesthetic values, specify our variables
- Geoms specifying plot or layer type
- Scales customize axis and legends for color, shape, and fill variables
- Labs how we label our plot, e.g. title, caption
- Theme tweak fonts, colors, spacing, etc.

```
ggplot(data, aes(x=produce, y=sales, fill = produce)()+)
  geom_bar(stat = "identity")+
  geom_text(mapping=aes(x=produce, y=sales, label=salees),
                       vjust=-2, size=2, color="black")+
  scale_y_continuous(limits = c(0,100))+
  scale fill manual(values = c("red", "green", "orange"))+
  labs(title = "Total Sales by Produce",
       subtitle = "Sales from Q4 2021",
      x = "PRODUCE",
       y = "SALES (\$)",
       caption = "Data from Dan in Finance")+
  theme(text = element_text(family="Arial"),
        plot.title = element text(face="bold"),
        plot.subtitle=element_text(face="italic"),
        plot.background = element_rect(fill="#000000")
```

```
Mrror_mod.mirror_object
peration == "MIRROR_X":
 drror_mod.use_x = True
 Arror_mod.use_y = False
 lrror_mod.use_z = False
 operation == "MIRROR_Y"
 Lrror_mod.use_x = False
 Lrror_mod.use_y = True
 lrror_mod.use_z = False
 Operation == "MIRROR Z"
  rror mod.use x = False
  rror mod.use y = False
  rror mod.use_z = True
   ntext.scene.objects.acti
  "Selected" + str(modifice
  ypes.Operator):
   X mirror to the select
  bject.mirror_mirror_x"
  Fror X"
```

Let's Get Down to Vizness!

(Open up RStudio)