Plotting data in R for rookies

First step: Make sure it's tidy!
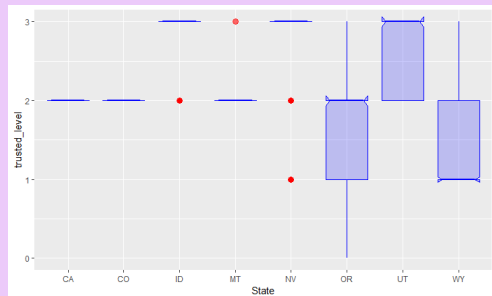
Some things I had to fix from my own data…

DATES:
pygmyrabbits_Date <- as.Date(pygmyrabbits$Date, format="%m/%d/%Y")

CHANGING VALUES:
pygmyrabbits$State <- as.character(pygmyrabbits$State)
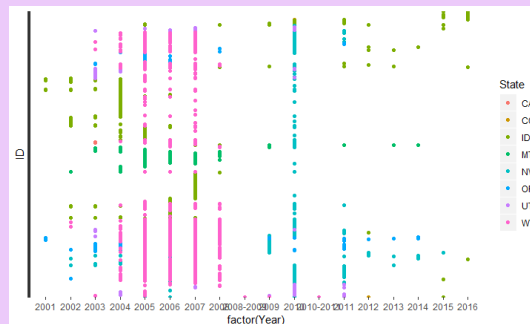pygmyrabbits$State[pygmyrabbits$State == "wy"] <- "WY"

Removing NAs:
pygmyrabbits$Date[!is.na(pygmyrabbits$Date)] --omitted 9421 entries
pygmyrabbits$State[!is.na(pygmyrabbits$State)]-- omitted 9421 entries

ggplot(pygmyrabbits, aes(x=State, y=trusted_level)) +
geom_boxplot(color="blue", fill="blue", alpha=0.2,nnotch=TRUE, notchwidth = 0.8, outlier.colour="red", outlier.fill="red", outlier.size=3)
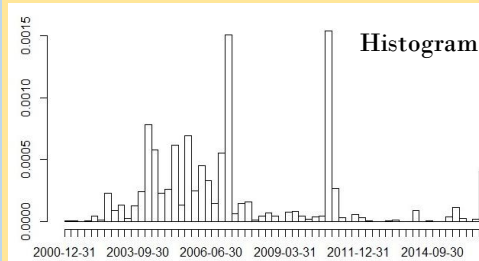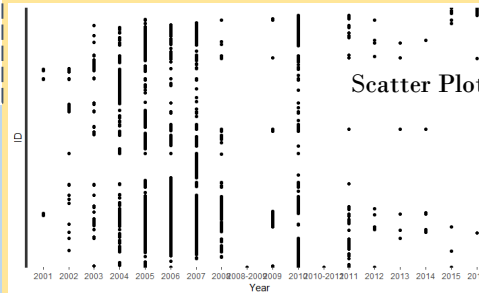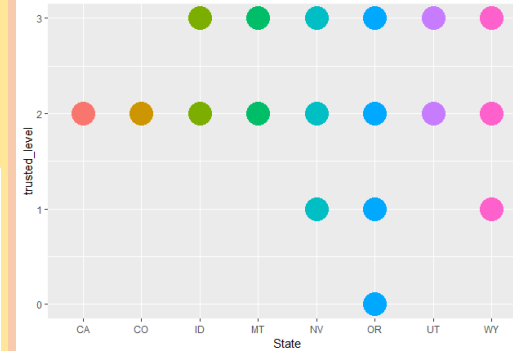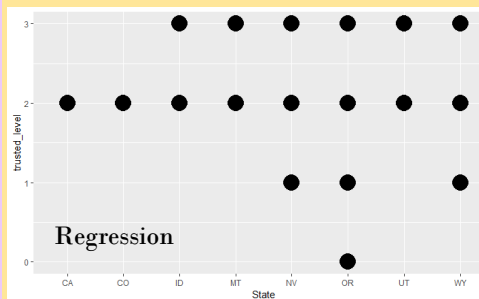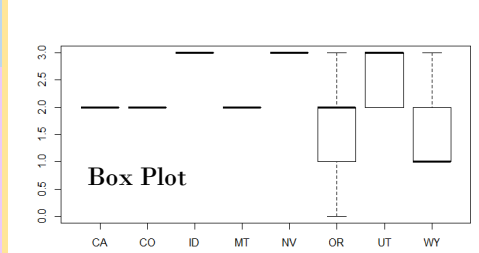

c <- ggplot(pygmyrabbits, aes(x = State, y = trusted_level, col = State))
c + geom_point() + theme(axis.text.y = element_blank())

Style

What kind of plot looks best?
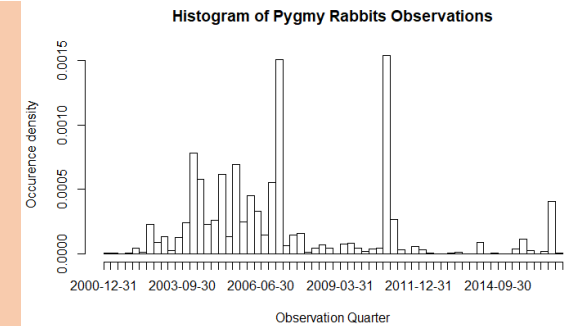

Scatter Plot

Histogram

IS IT BORING?

Box Plot

Regression

Labels
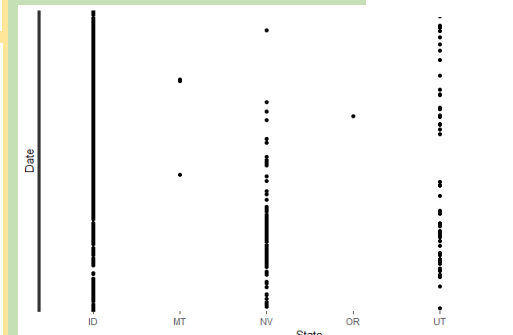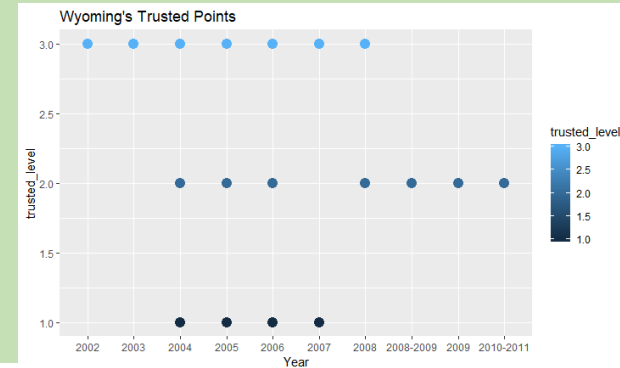
c <- ggplot(pygmyrabbits, aes(x = State, y = trusted_level, col = State))
c + geom_point(size = 10)

hist(pygmyrabbits_Date, breaks = "quarters", main = "Histogram of Pygmy Rabbits Observations",xlab = "Observation Quarter", ylab = "Occurence density")

Histogram of Pygmy Rabbits Observations

scale4 <- ggplot(data = subset(pygmyrabbits, State == "WY"), aes(x = Year, y = trusted_level, col = trusted_level)) + geom_point(size = 4) + labs(title = "Wyoming's Trusted Points")

Wyoming's Trusted Points

scale3 <- ggplot(data = subset(pygmyrabbits, trusted_level == 3), aes(x = State, y = Date)) + geom_point() + theme(axis.text.y = element_blank())

Scale