## Week6.rmd

Peyton Hall

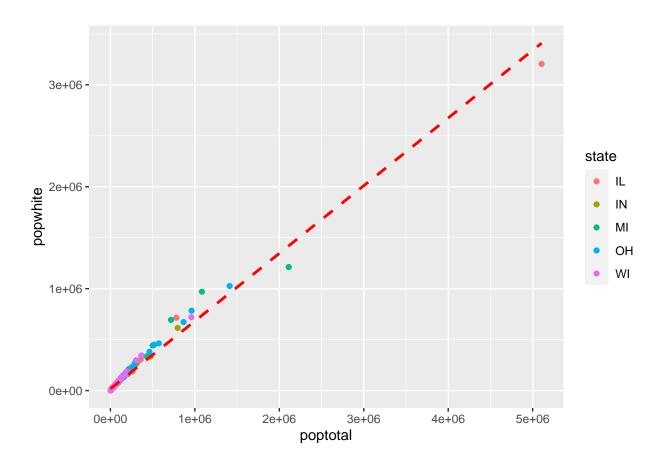
02/15/2024

library(ggplot2)

## Adding a regression line to the scatter plot

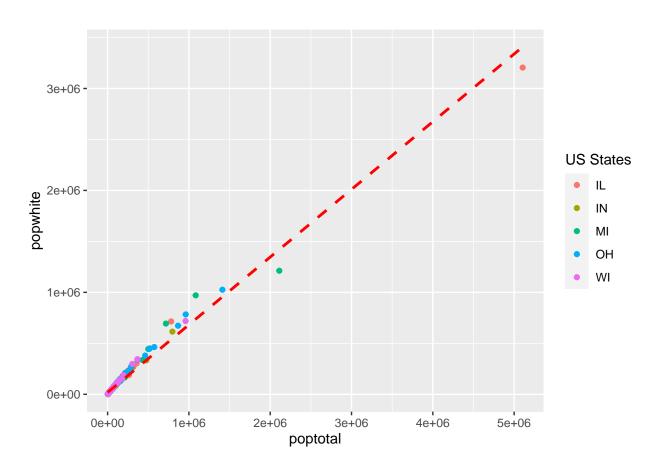
ggplot(data = midwest, aes(x=poptotal, y=popwhite))+geom\_point(aes(color=state))+geom\_smooth(method = "

## 'geom\_smooth()' using formula = 'y ~ x'



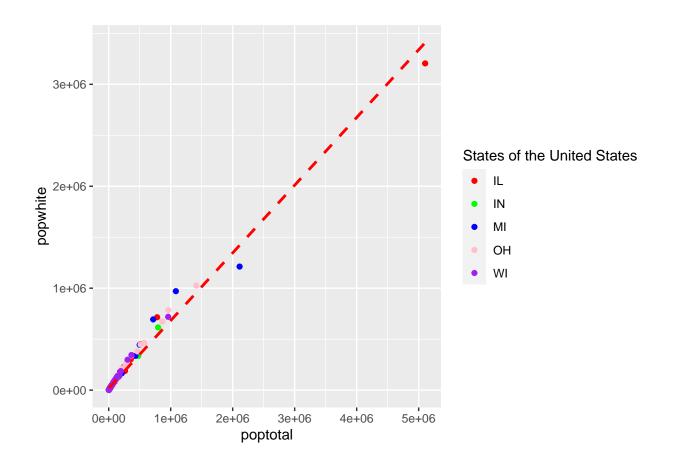
ggplot(data = midwest, aes(x=poptotal, y=popwhite))+geom\_point(aes(color=state))+geom\_smooth(method = "

## 'geom\_smooth()' using formula = 'y ~ x'



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## 'geom\_smooth()' using formula = 'y ~ x'



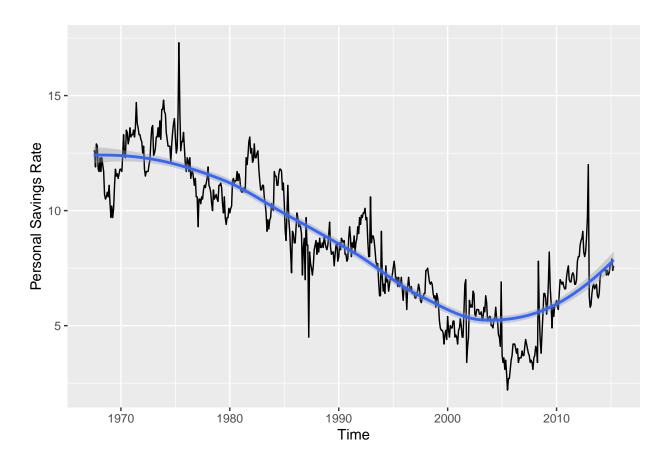
```
library(ggplot2)

#str(economics)

#View(economics)

ggplot(data=economics, aes(x=date, y=psavert))+geom_line(linetype="solid")+labs(x="Time", y="Personal S
```

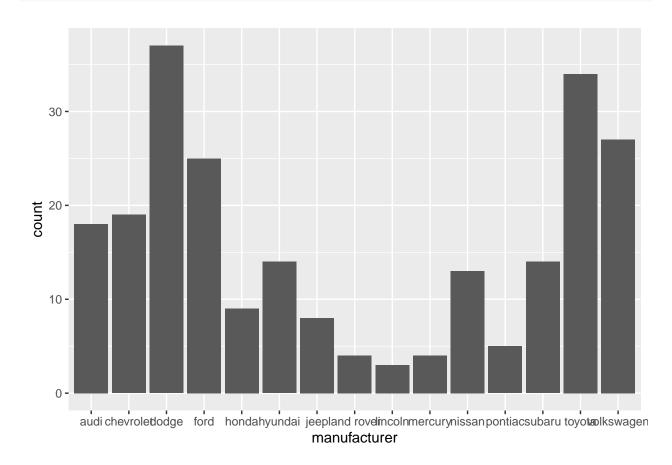
## 'geom\_smooth()' using method = 'loess' and formula = 'y ~ x'



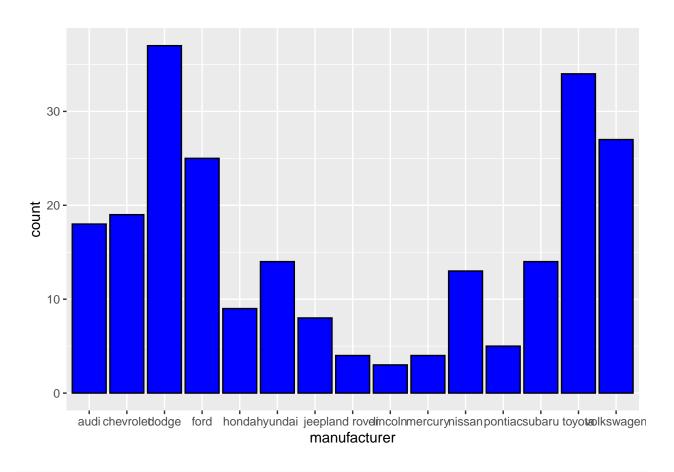
```
# Load necessary libraries
library(readxl)
library(ggplot2)
# Read the Excel file
# "file" -> "Import Dataset" -> "From Excel" -> "Browse" -> Copy & Paste path:
milk <- read_excel("Desktop/Data211/Week 6/milk.xlsx")</pre>
str(milk)
# create variable year and add it into milk data set
milk$year <- format(milk$timep, format = "%Y")</pre>
# create variable month and add it into milk data set
milk$month <- format(milk$timep, format = "%m")</pre>
ggplot(data = milk, aes(x = month, y = milk_per_cow_kg))+geom_line(aes(group=year,color=year))
year<-as.factor(milk$year)</pre>
ggplot(data = milk, aes(x = month, y = milk_per_cow_kg))+geom_line(aes(group=year,color=year))+scale_x_
library(ggplot2)
str(mpg)
## tibble [234 x 11] (S3: tbl_df/tbl/data.frame)
## $ manufacturer: chr [1:234] "audi" "audi" "audi" "audi" ...
```

```
## $ model : chr [1:234] "a4" "a4" "a4" "a4" ...
## $ displ : num [1:234] 1.8 1.8 2 2 2.8 2.8 3.1
                : num [1:234] 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
## $ displ
                : int [1:234] 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
## $ year
                 : int [1:234] 4 4 4 4 6 6 6 4 4 4 ...
## $ cyl
## $ trans
                 : chr [1:234] "auto(15)" "manual(m5)" "manual(m6)" "auto(av)" ...
                 : chr [1:234] "f" "f" "f" "f" ...
## $ drv
                 : int [1:234] 18 21 20 21 16 18 18 18 16 20 ...
  $ cty
                 : int [1:234] 29 29 31 30 26 26 27 26 25 28 ...
    $ hwy
                 : chr [1:234] "p" "p" "p" "p" ...
##
    $ fl
                 : chr [1:234] "compact" "compact" "compact" ...
## $ class
```

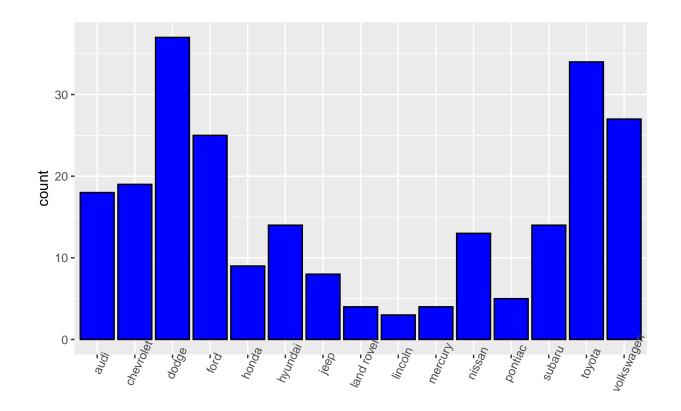
ggplot(data=mpg,aes(x=manufacturer))+geom\_bar()



ggplot(data=mpg,aes(x=manufacturer))+geom\_bar(fill="blue",color="black")

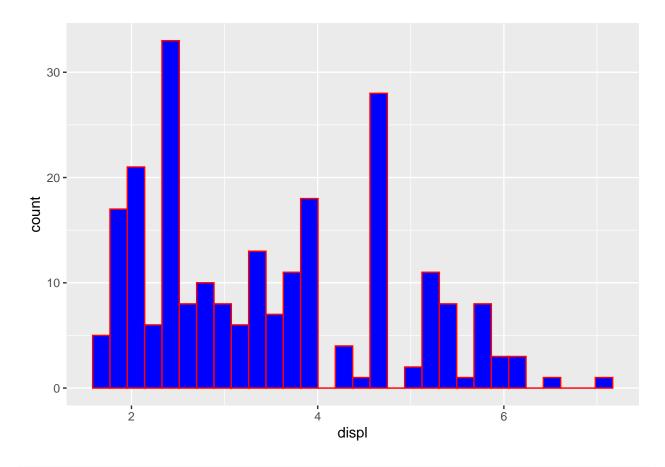


ggplot(data=mpg,aes(x=manufacturer))+geom\_bar(fill="blue",color="black")+theme(axis.text.x = element\_text.x = element\_te

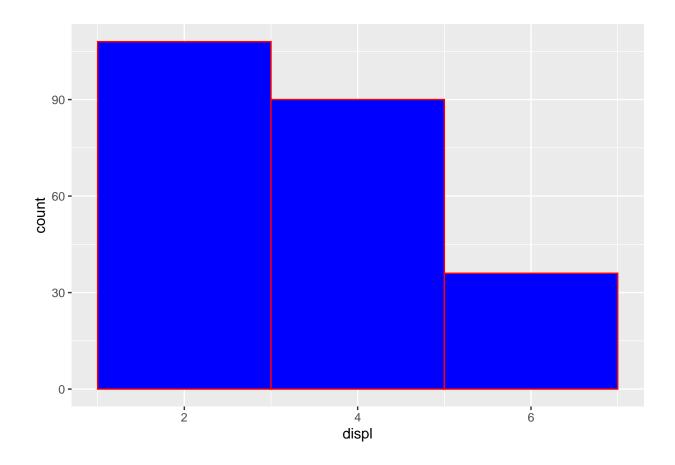


manufacturer

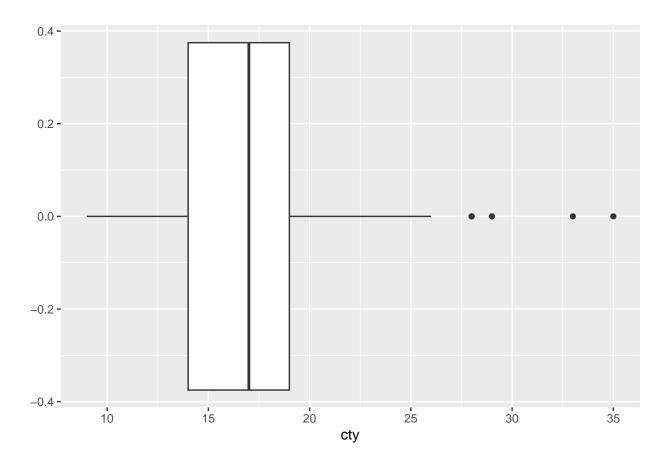
ggplot(data=mpg,aes(x=displ))+geom\_histogram(bins=30, fill="blue",color="red")



ggplot(data=mpg,aes(x=displ))+geom\_histogram(binwidth=2, fill="blue",color="red")



ggplot(data=mpg, aes(cty))+geom\_boxplot()



#View(mpg)
ggplot(data=mpg, aes(x=cty, y=class))+geom\_boxplot(fill="yellow",color="black")

