lindsay

me

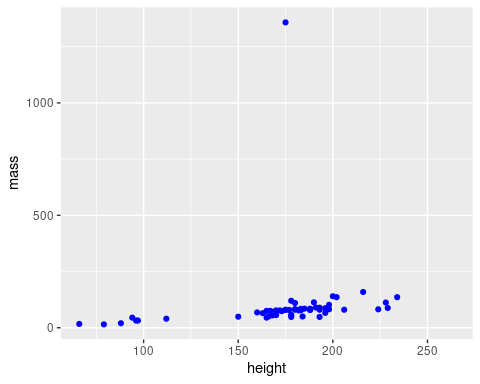
12/12/2021

library(ggplot2)  
library(tidyverse)  
library(ggridges)  
library(readr)  
library(forcats)  
library(ggrepel)  
library(dplyr)  
library(tidyr)

Hello! I am seeing if this will work.

data=starwars  
ggplot(data= starwars, mapping= aes(x=height , y= mass)) + geom\_point(colour= "blue")

## Warning: Removed 28 rows containing missing values (geom\_point).



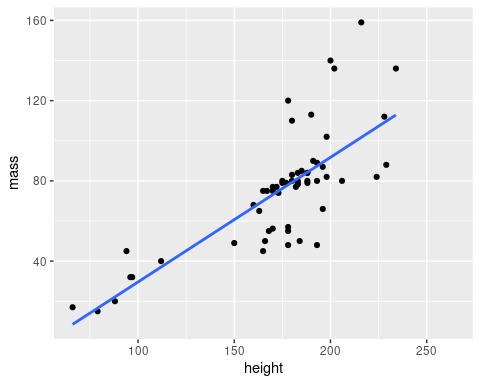
starwarss <- filter(starwars, name != "Jabba Desilijic Tiure")

ggplot(starwarss, aes(height,mass)) +geom\_point(colour="black") +geom\_smooth(method=lm, se= FALSE)

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

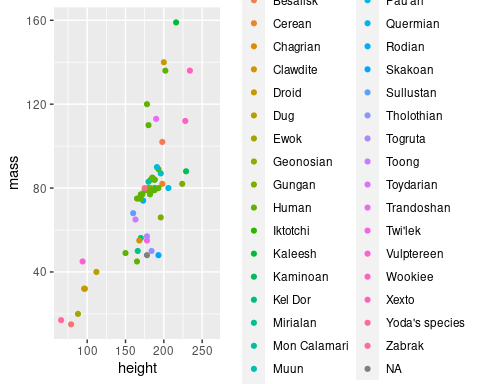
## Warning: Removed 28 rows containing non-finite values (stat\_smooth).

## Warning: Removed 28 rows containing missing values (geom\_point).



ggplot(starwarss, aes(height, mass, colour=species)) + geom\_point()

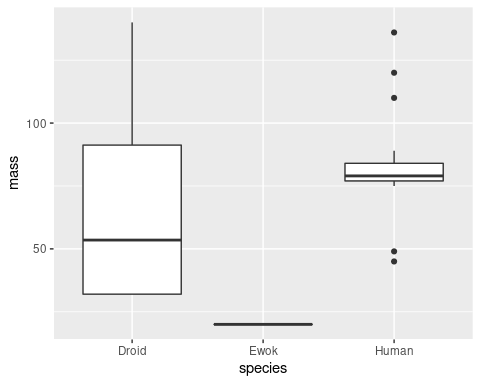
## Warning: Removed 28 rows containing missing values (geom\_point).



lib<- starwars %>% subset(species == "Human" | species == "Droid" | species == "Ewok")

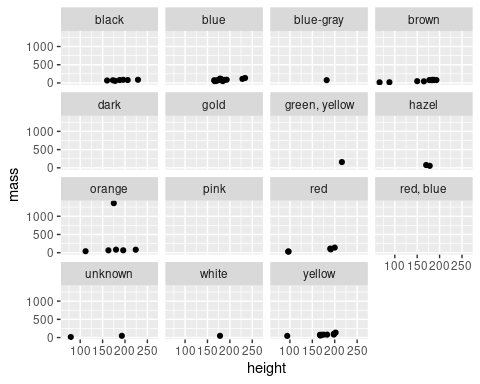
ggplot (lib, aes(species,mass)) + geom\_boxplot()

## Warning: Removed 15 rows containing non-finite values (stat\_boxplot).

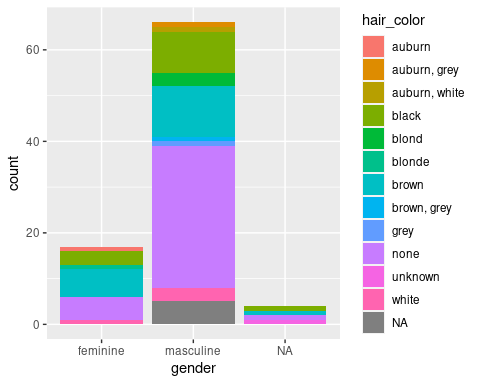


ggplot(data=starwars, mapping= aes(x=height, y=mass)) + geom\_point() + facet\_wrap(~eye\_color)

## Warning: Removed 28 rows containing missing values (geom\_point).

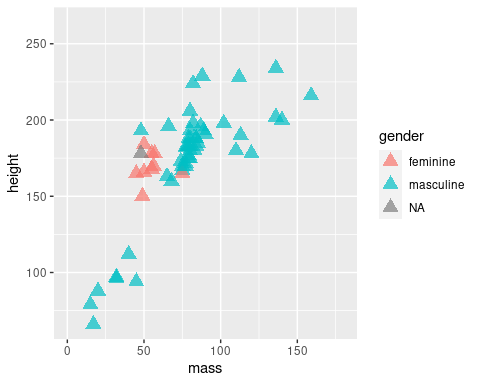


ggplot(data = starwars, mapping = aes(x=gender, fill = hair\_color)) + geom\_bar()



ggplot(data=starwarss) + geom\_point(mapping = aes(x=mass, y= height, colour= gender), alpha= 0.7, shape= 17 , size =4) + coord\_cartesian(xlim=c(0,180))

## Warning: Removed 28 rows containing missing values (geom\_point).



starwars %>% filter (height <100)

## # A tibble: 7 x 14  
## name height mass hair\_color skin\_color eye\_color birth\_year sex gender  
## <chr> <int> <dbl> <chr> <chr> <chr> <dbl> <chr> <chr>   
## 1 R2-D2 96 32 <NA> white, bl… red 33 none mascu…  
## 2 R5-D4 97 32 <NA> white, red red NA none mascu…  
## 3 Yoda 66 17 white green brown 896 male mascu…  
## 4 Wicket S… 88 20 brown brown brown 8 male mascu…  
## 5 Dud Bolt 94 45 none blue, grey yellow NA male mascu…  
## 6 Ratts Ty… 79 15 none grey, blue unknown NA male mascu…  
## 7 R4-P17 96 NA none silver, r… red, blue NA none femin…  
## # … with 5 more variables: homeworld <chr>, species <chr>, films <list>,  
## # vehicles <list>, starships <list>

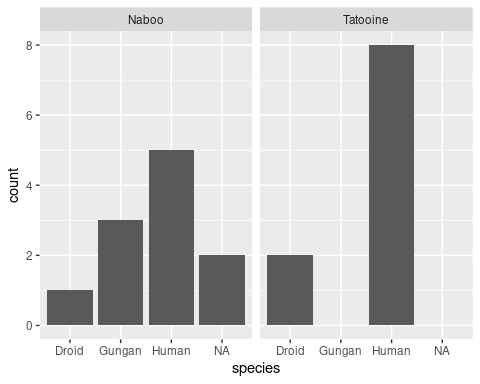
starwars %>% filter(eye\_color == "red") %>% select(name)

## # A tibble: 5 x 1  
## name   
## <chr>   
## 1 R2-D2   
## 2 R5-D4   
## 3 IG-88   
## 4 Bossk   
## 5 Nute Gunray

starwars %>%  
 mutate(height\_plus\_mass = height + mass) %>%  
 select(name, height, mass, height\_plus\_mass)

## # A tibble: 87 x 4  
## name height mass height\_plus\_mass  
## <chr> <int> <dbl> <dbl>  
## 1 Luke Skywalker 172 77 249  
## 2 C-3PO 167 75 242  
## 3 R2-D2 96 32 128  
## 4 Darth Vader 202 136 338  
## 5 Leia Organa 150 49 199  
## 6 Owen Lars 178 120 298  
## 7 Beru Whitesun lars 165 75 240  
## 8 R5-D4 97 32 129  
## 9 Biggs Darklighter 183 84 267  
## 10 Obi-Wan Kenobi 182 77 259  
## # … with 77 more rows

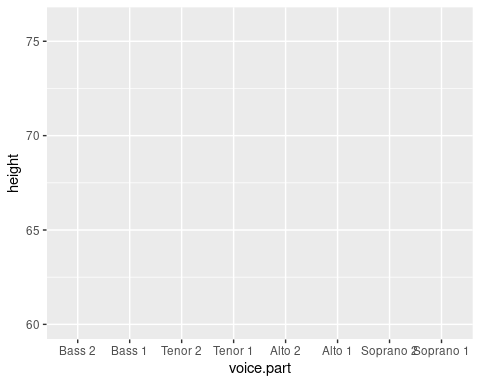
starwars %>%  
 filter(homeworld %in% c("Naboo", "Tatooine")) %>%  
 ggplot(aes(species)) +  
 geom\_bar() +  
 facet\_grid(. ~ homeworld)



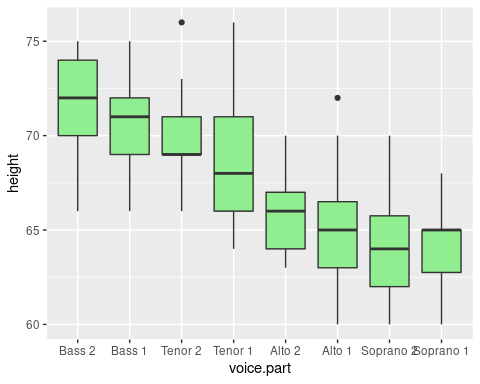
data=USArrests

data(singer, package='lattice')

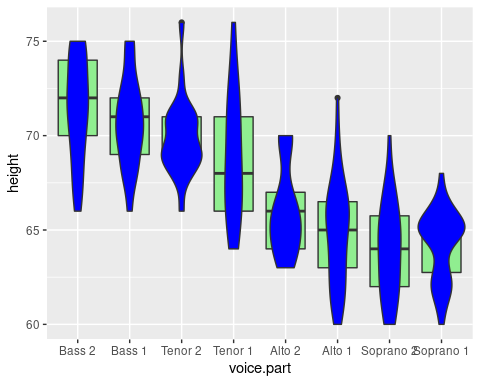
lm <- ggplot(singer, aes(x=voice.part, y=height))  
  
lm



lm <- lm + geom\_boxplot(fill="lightgreen")  
lm



lm <- lm + geom\_violin(fill="blue")  
lm

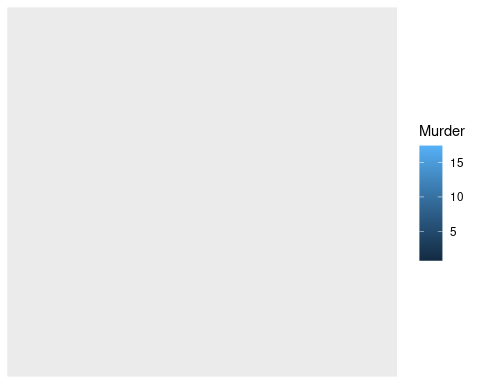


data("USArrests")  
crimes <- data.frame(state=tolower(rownames(USArrests)), USArrests)

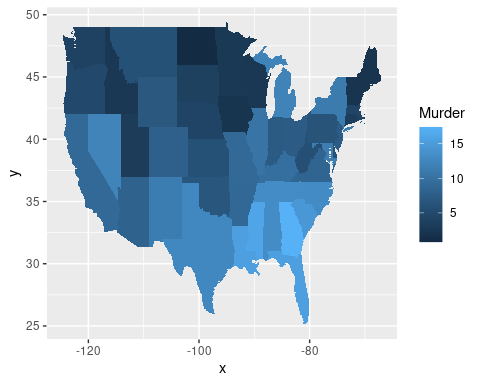
gg <- ggplot(crimes, aes(map\_id=state, fill=Murder))  
gg



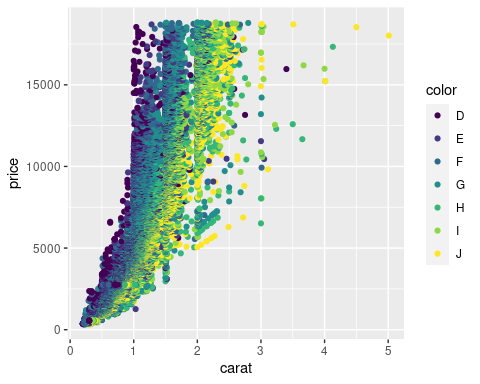
gg <- gg + geom\_map(map=map\_data("state"))  
gg



gg <- gg + expand\_limits(x=map\_data("state")$long, y=map\_data("state")$lat)  
gg



diamond.plot <- ggplot(data=diamonds, aes(x=carat, y=price, colour = color))  
diamond.plot + geom\_point()



birthwt <- as\_tibble(MASS::birthwt)  
  
birthwt <- birthwt %>%  
 rename(birthwt.below.2500 = low,   
 mother.age = age,  
 mother.weight = lwt,  
 mother.smokes = smoke,  
 previous.prem.labor = ptl,  
 hypertension = ht,  
 uterine.irr = ui,  
 physician.visits = ftv,  
 birthwt.grams = bwt)  
  
# Assign better labels to categorical variables  
birthwt <- birthwt %>%  
 mutate(race = recode\_factor(race, `1` = "white", `2` = "black", `3` = "other")) %>%  
 mutate\_at(c("mother.smokes", "hypertension", "uterine.irr", "birthwt.below.2500"),  
 ~ recode\_factor(.x, `0` = "no", `1` = "yes"))

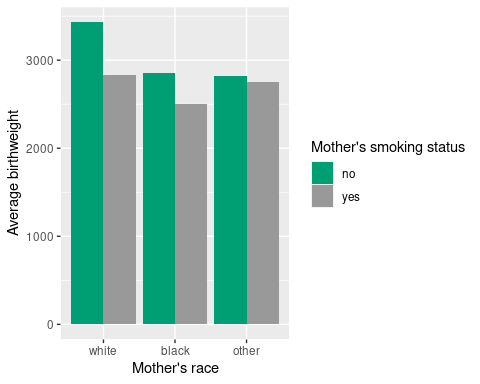
bwt.summary <- birthwt %>%  
 group\_by(race, mother.smokes) %>%  
 summarize(mean.birthwt = round(mean(birthwt.grams), 0))

## `summarise()` has grouped output by 'race'. You can override using the `.groups` argument.

bwt.summary

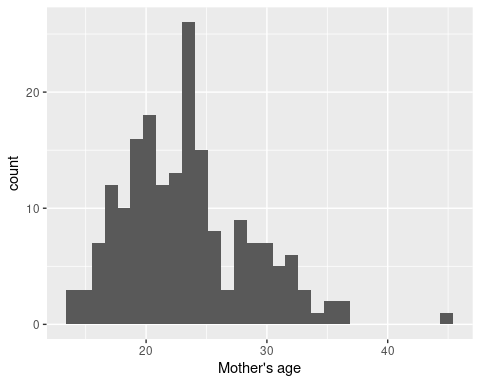
## # A tibble: 6 x 3  
## # Groups: race [3]  
## race mother.smokes mean.birthwt  
## <fct> <fct> <dbl>  
## 1 white no 3429  
## 2 white yes 2827  
## 3 black no 2854  
## 4 black yes 2504  
## 5 other no 2816  
## 6 other yes 2757

p.bwt <- ggplot(data = bwt.summary,   
 aes(y = mean.birthwt, x = race, fill = mother.smokes))  
  
# Pick colors for the bars  
bwt.colors <- c("#009E73", "#999999")  
  
# Display barchart  
p.bwt + geom\_bar(stat = "identity", position = "dodge") +  
 ylab("Average birthweight") +   
 xlab("Mother's race") +  
 guides(fill = guide\_legend(title = "Mother's smoking status")) +   
 scale\_fill\_manual(values=bwt.colors)



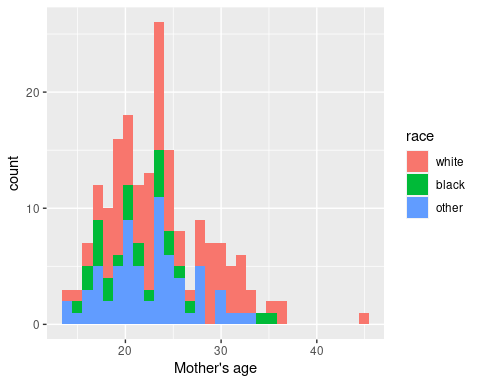
base.plot <- ggplot(birthwt, aes(x = mother.age)) +  
 xlab("Mother's age")   
base.plot + geom\_histogram()

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

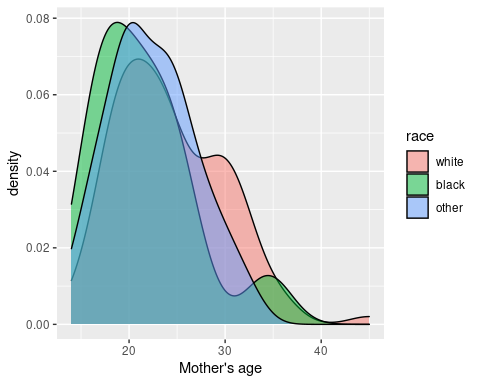


base.plot + geom\_histogram(aes(fill = race))

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.



base.plot + geom\_density(aes(fill = race), alpha = 0.5)



ggplot(birthwt, aes(x=mother.age, y=birthwt.grams, shape=mother.smokes, color=mother.smokes)) +   
 geom\_point() + # Adds points (scatterplot)  
 geom\_smooth(method = "lm") + # Adds regression lines  
 ylab("Birth Weight (grams)") + # Changes y-axis label  
 xlab("Mother's Age (years)") + # Changes x-axis label  
 ggtitle("Birth Weight in relation to Mother's Age")

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

