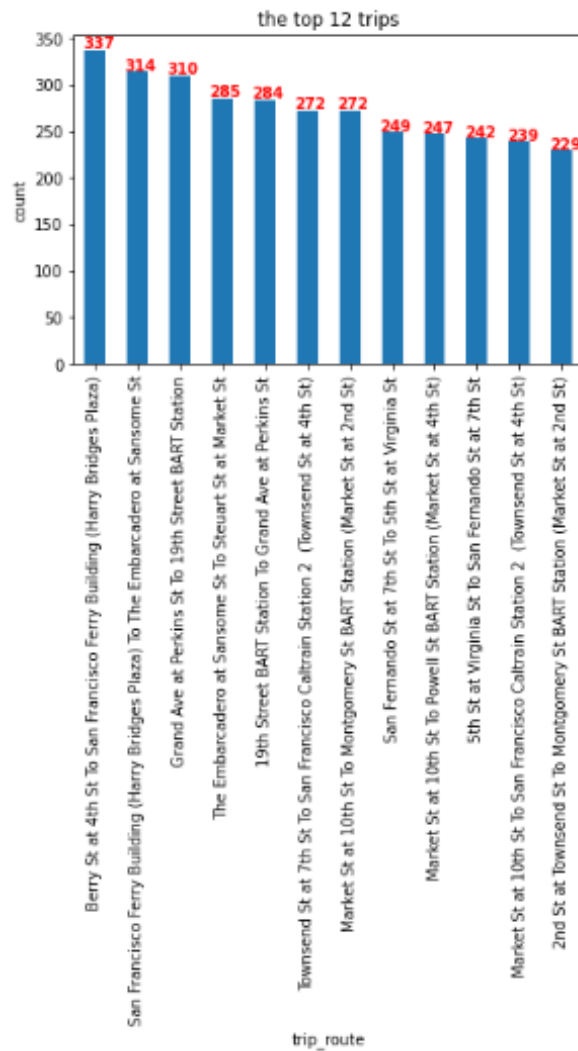# Communicate Your Finding

(Ford go bike)

The data is about trips and it contain some data about users too

At first we want what is the most trip made for our users so we made a bar chart that contain the top 12 trip made from start station to the end station I combined them and plotted them on the next chart


As you find on x axis the name of the trip and the count of each trip

Then we decide what is the most age range for our user so I made a histogram


the count of users for each age
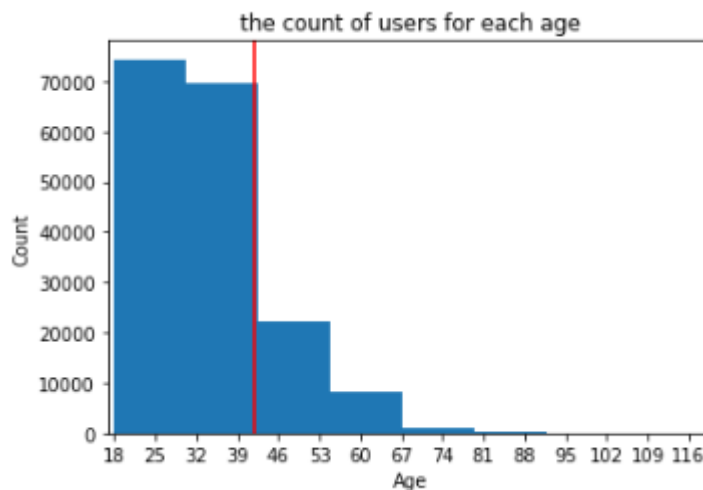
That telling us the age range starts with 18 and stays high till age 42 after that it getting down

And of course that may let us think Is Age has an effect on trip duration that users take so we made a replot that shows us the correlation between those two variable
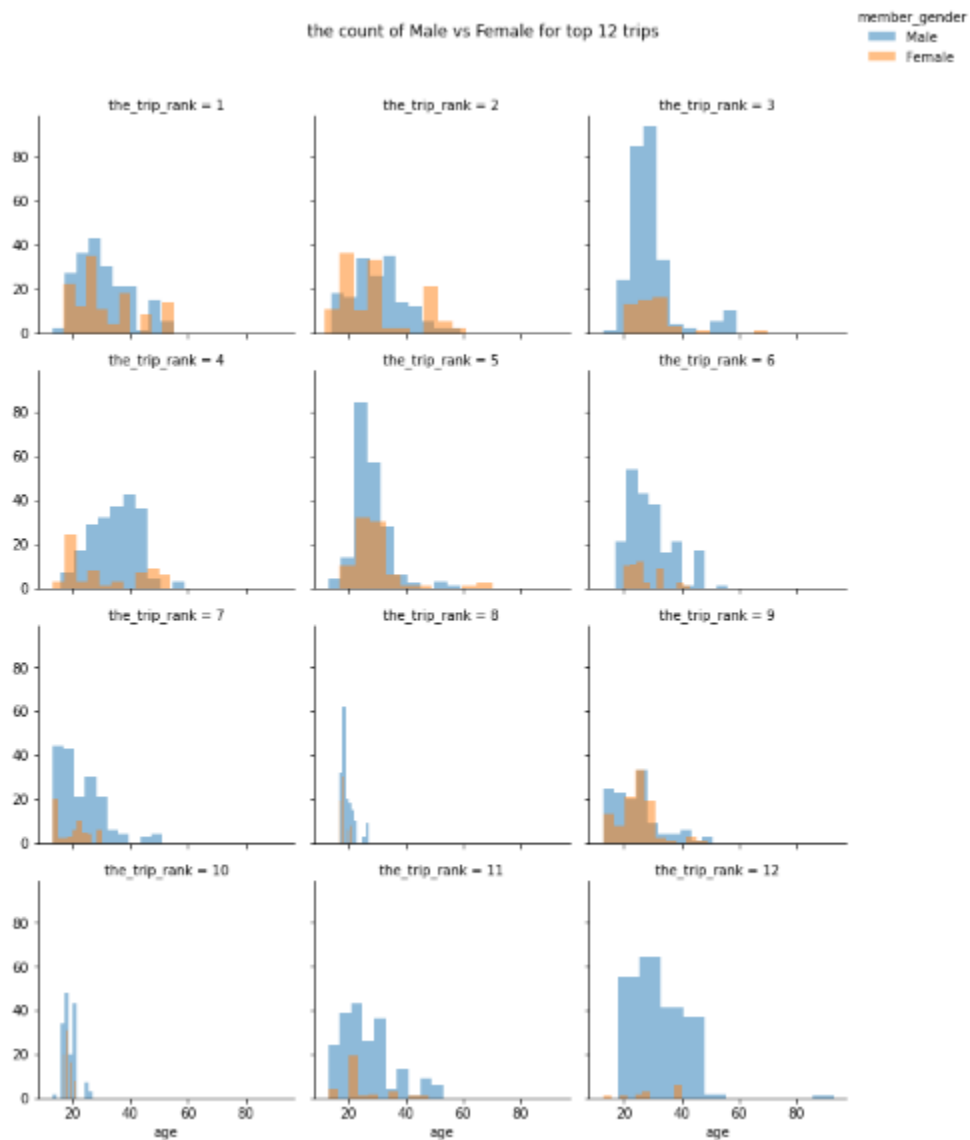

the relation between age and duration in min
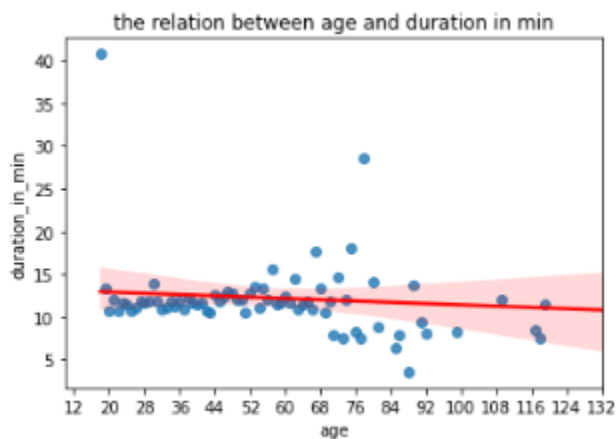
The relation seems be week and we have an outlier at age 20 that have duration for more than 40

Now let`s dive more in our top 12 trips and see if the there is any difference between them all the trips combined and any one of them

relation between age and duration in min for top 12 trips
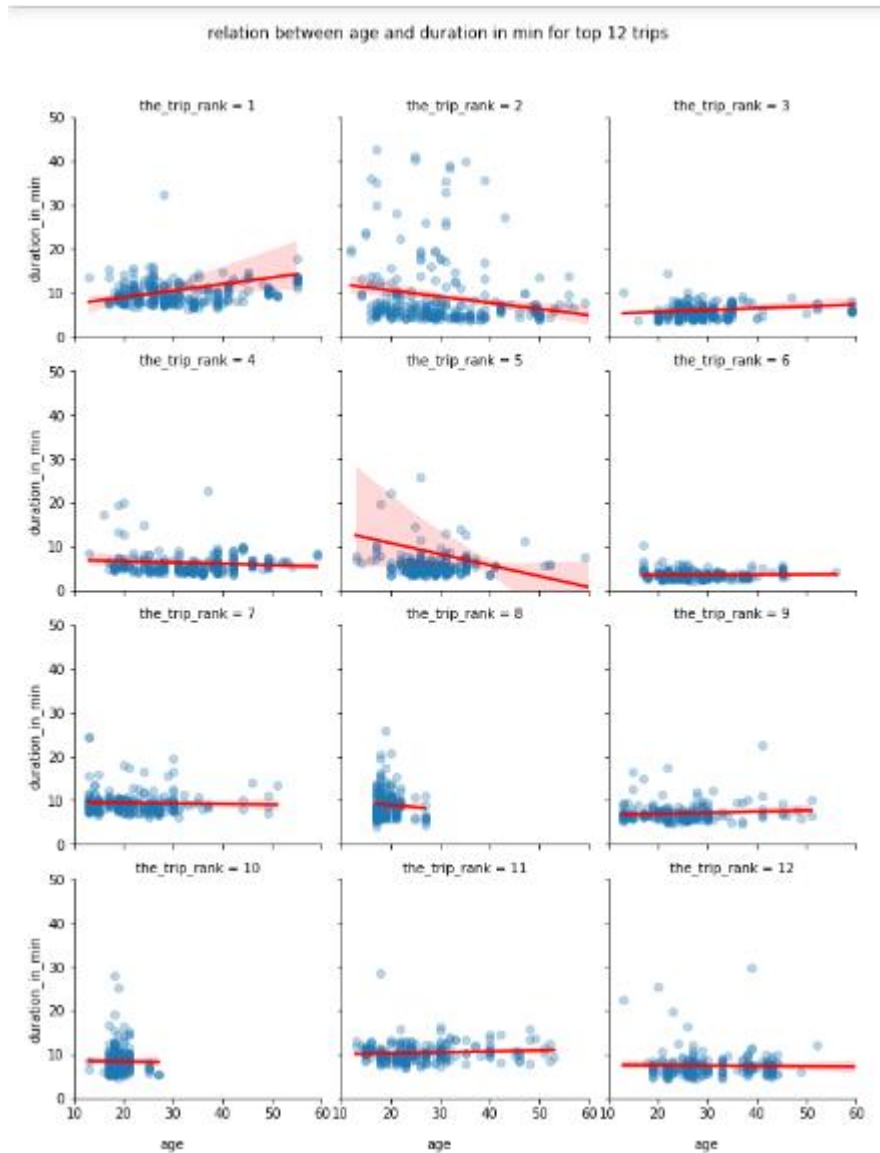
And now you can see there a slight difference only you can see at age trip ranked 5 (I changed the trip name with rank witch mean the 1 heights and for trip ranked 8 and 10 we have a limited age range that may be caused the skew in our pervious histogram

Let's add some more information to our plot like is the customer gender will affect or not but before we need to understand what is the count of each gender in each trip

the count of Male vs Female for top 12 trips

It seems men win here the majority is male customer

Back to the relation between age and duration let us see the effect of gender in the relation between age and duration

relation between age and duration in min for top 12 trips (Male vs Female)
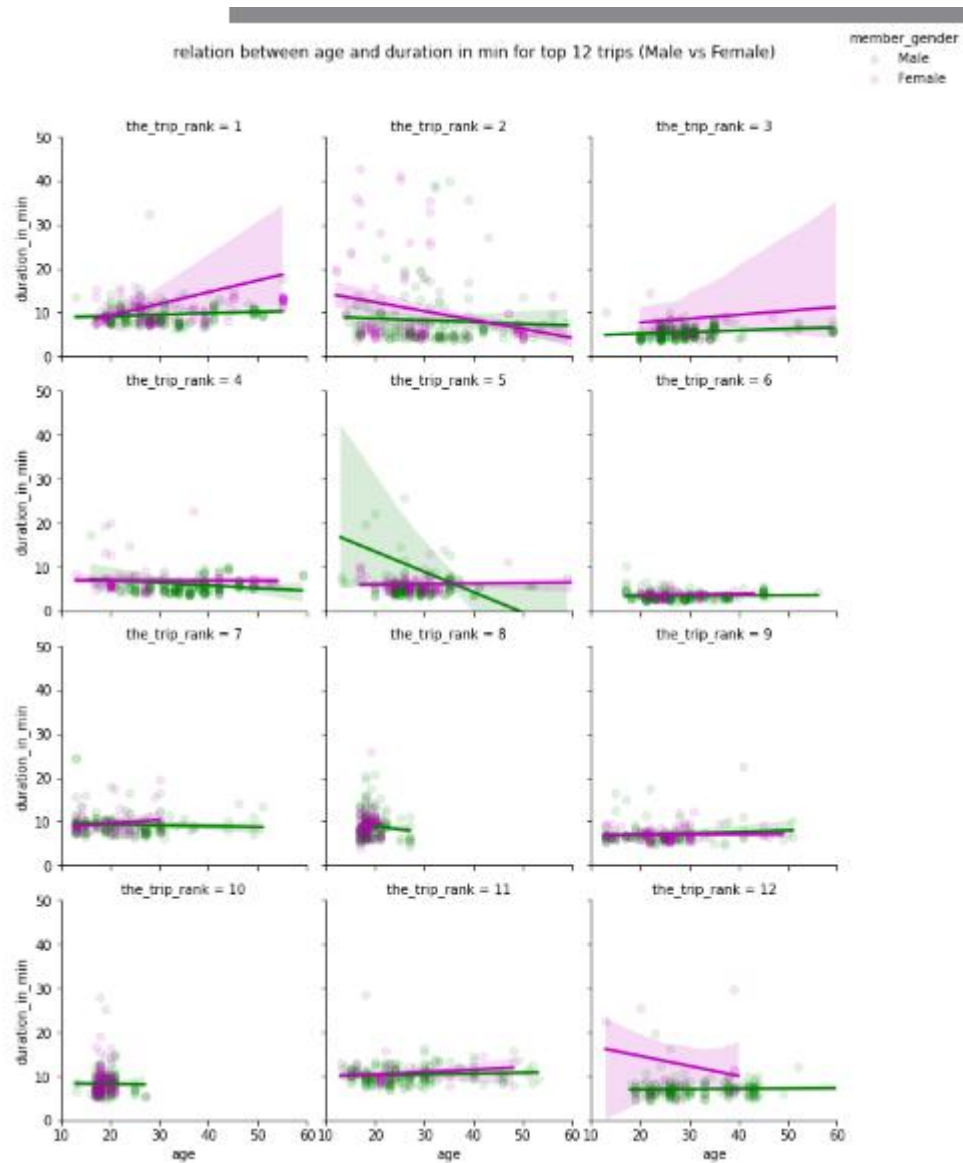
Ooh the male decreased in trip 5 more than usual

Last lets see the same relation in order of the user is subscriber or customer

relation between age and duration for top 12 trips (Subscriber VS Customer)
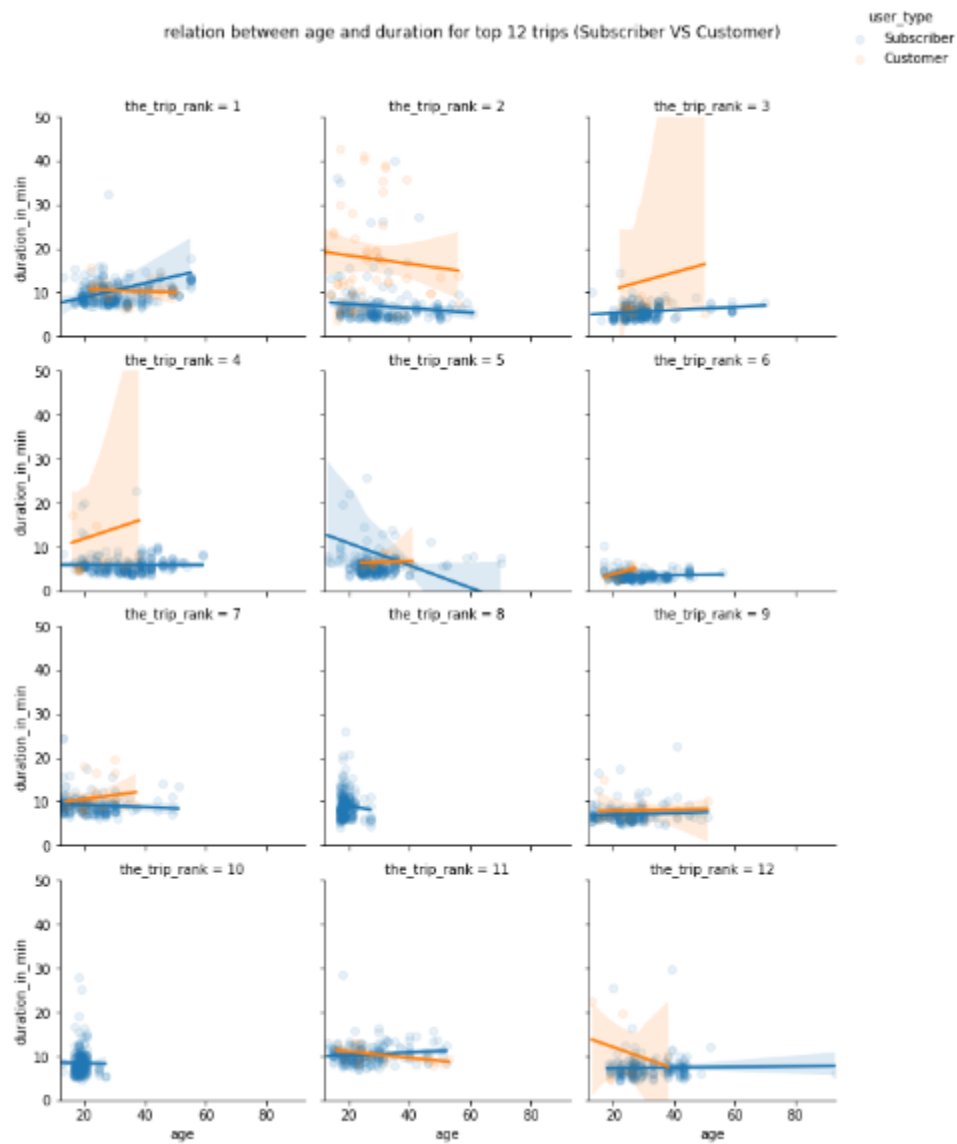
The trip 8 and 10 came again in our finding they have no customer in them but the relation is some times negative and sometimes positive