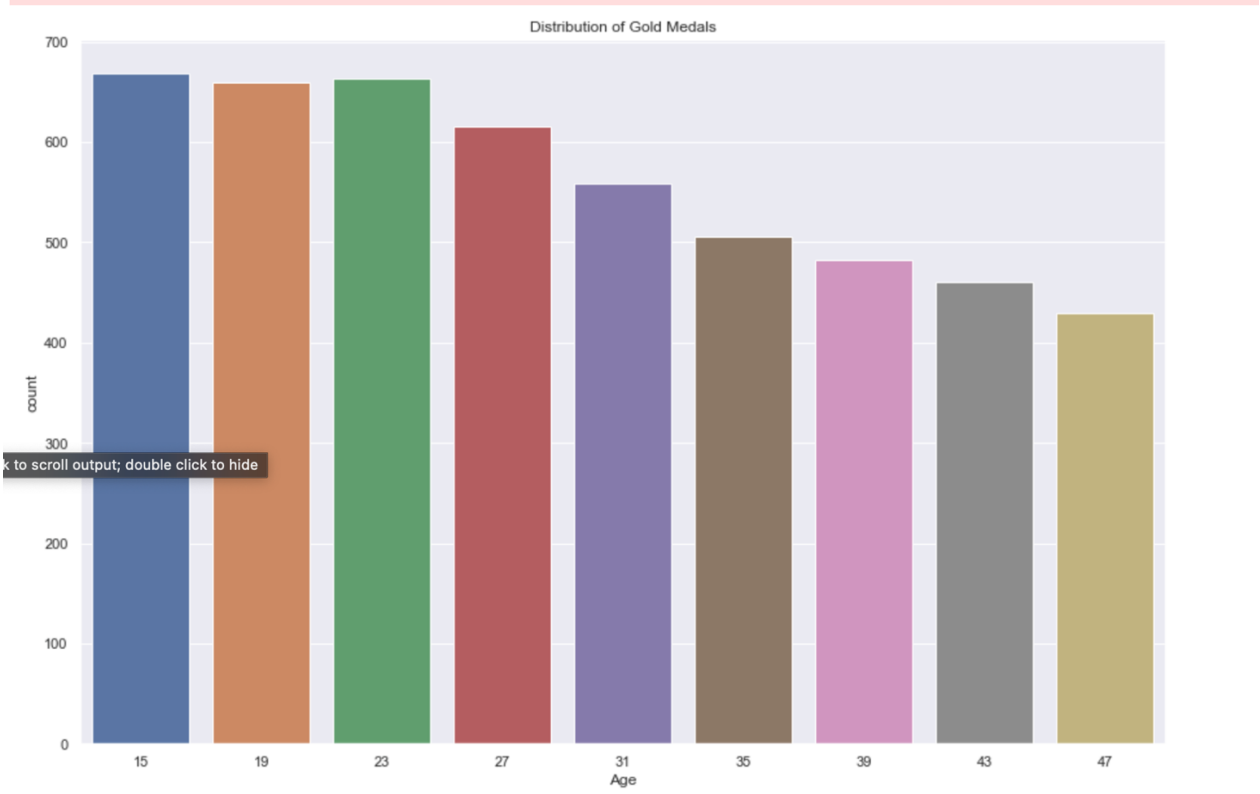
Tanay Dangaich

Github link: https://github.com/tanaydangaich/Data-Analysis-and-Viz/blob/main/Olymic%20Dataset%20Analysis.ipynb

This assignment has been done in Python using seaborn and plotly libraries.

What is the distribution of Gold Medals over Age?

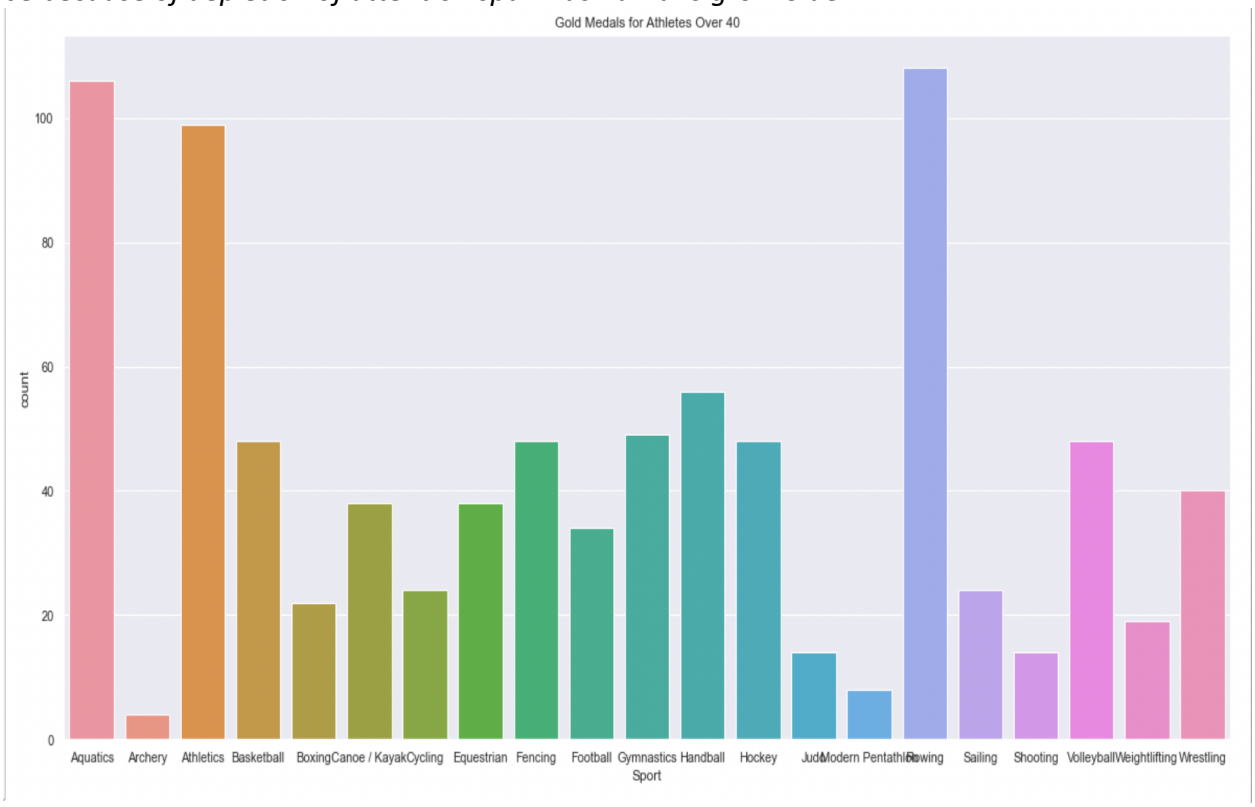
We can see a gradual decline in the number of Gold Medals won as athletes grow older, this may also be because of the decrease in the number of athletes as they grow older.



What is the distribution of Gold Medals for Athletes Over 40?

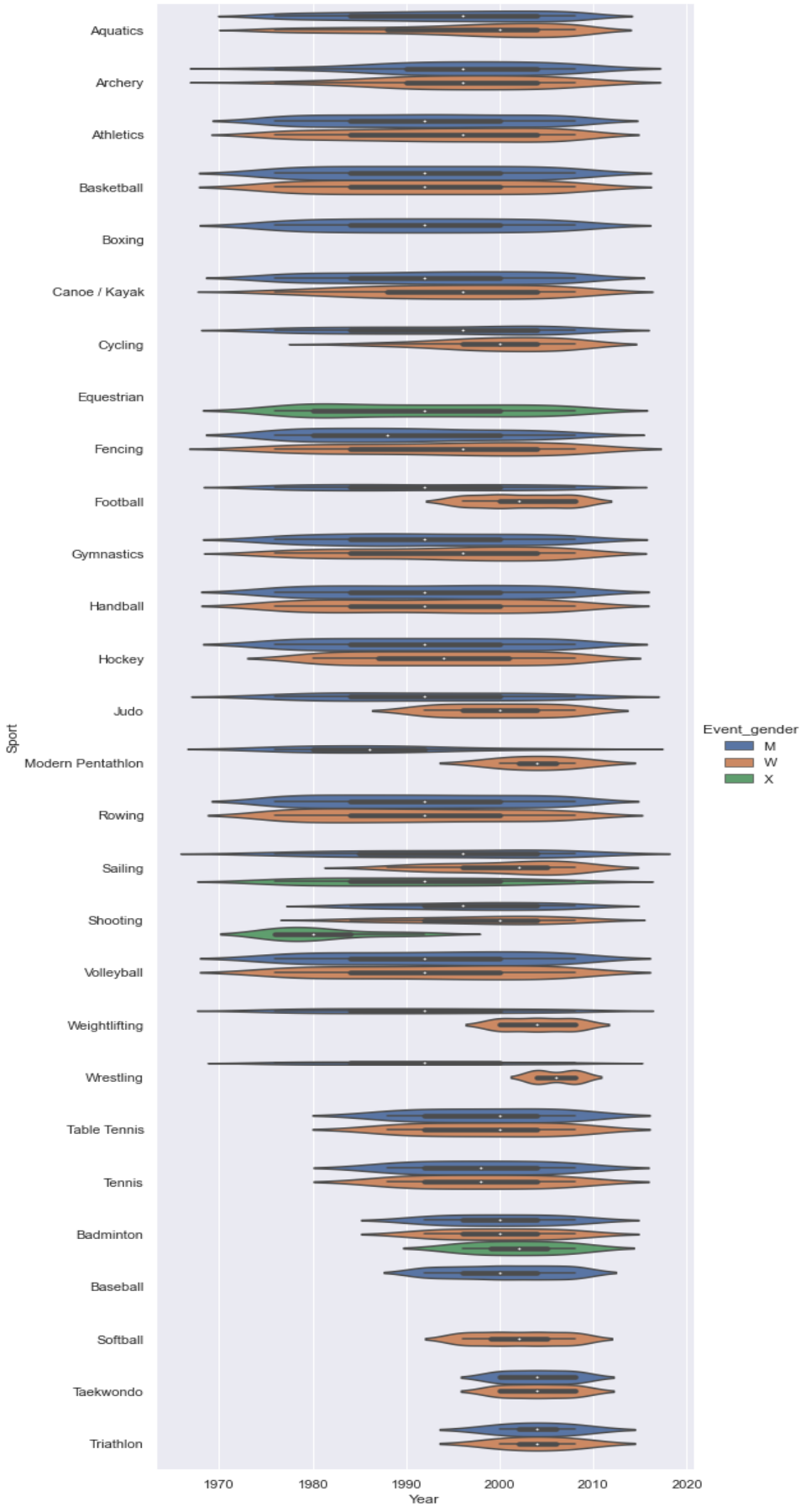
Athletics, Aquatics and Bowling has the highest number of gold medals earned by athletes over 40 compared to other sports. Athletics and aquatics require high physical training, so this observation is counter intuitive to me. I would think that archery would be better suited for athletes over 40.

On the other hand, Archery has the lowest count of gold medals for athletes over 40, this might be because of depletion of attention span has humans grow older.

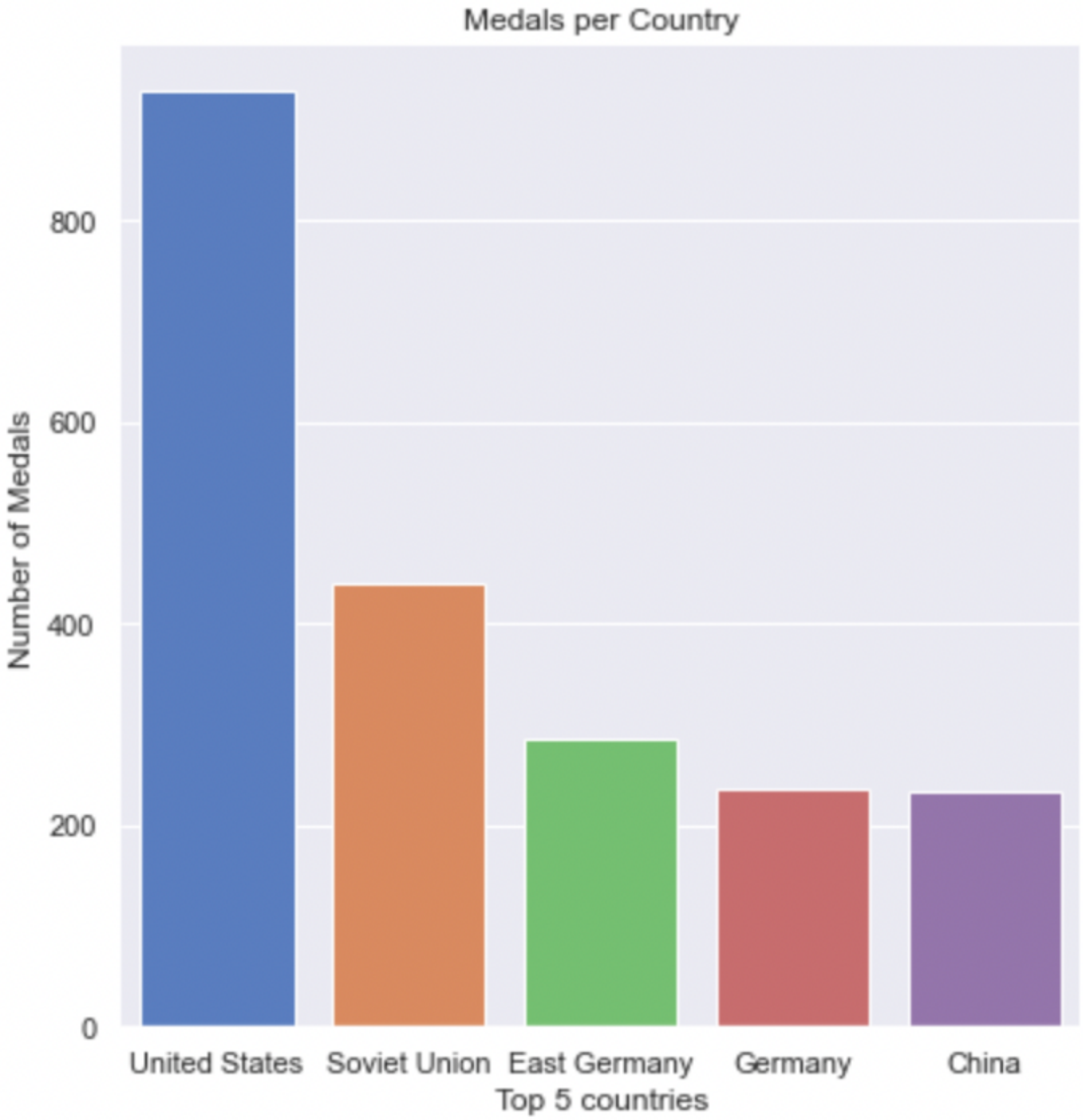


What is the distribution of sports with respect to year for male and female?

We can see that the participation of females started late in these sports - Cycling, Football, Hockey, Judo, Modern Pentathlon, Sailing, Weightlifting, & Wrestling.


Aquatics
Archery
Athletics
Basketball
Boxing
Canoe / Kayak
Cycling
Equestrian
Fencing
Football
Gymnastics
Handball
Hockey
Judo
Modern Pentathlon
Rowing
Sailing
Shooting
Volleyball
Weightlifting
Wrestling
Table Tennis
Tennis
Badminton
Baseball
Softball
Taekwondo
Triathlon
Sport
1970
1980
1990
2000
2010
2020
Year
Event_gender
M
W
X

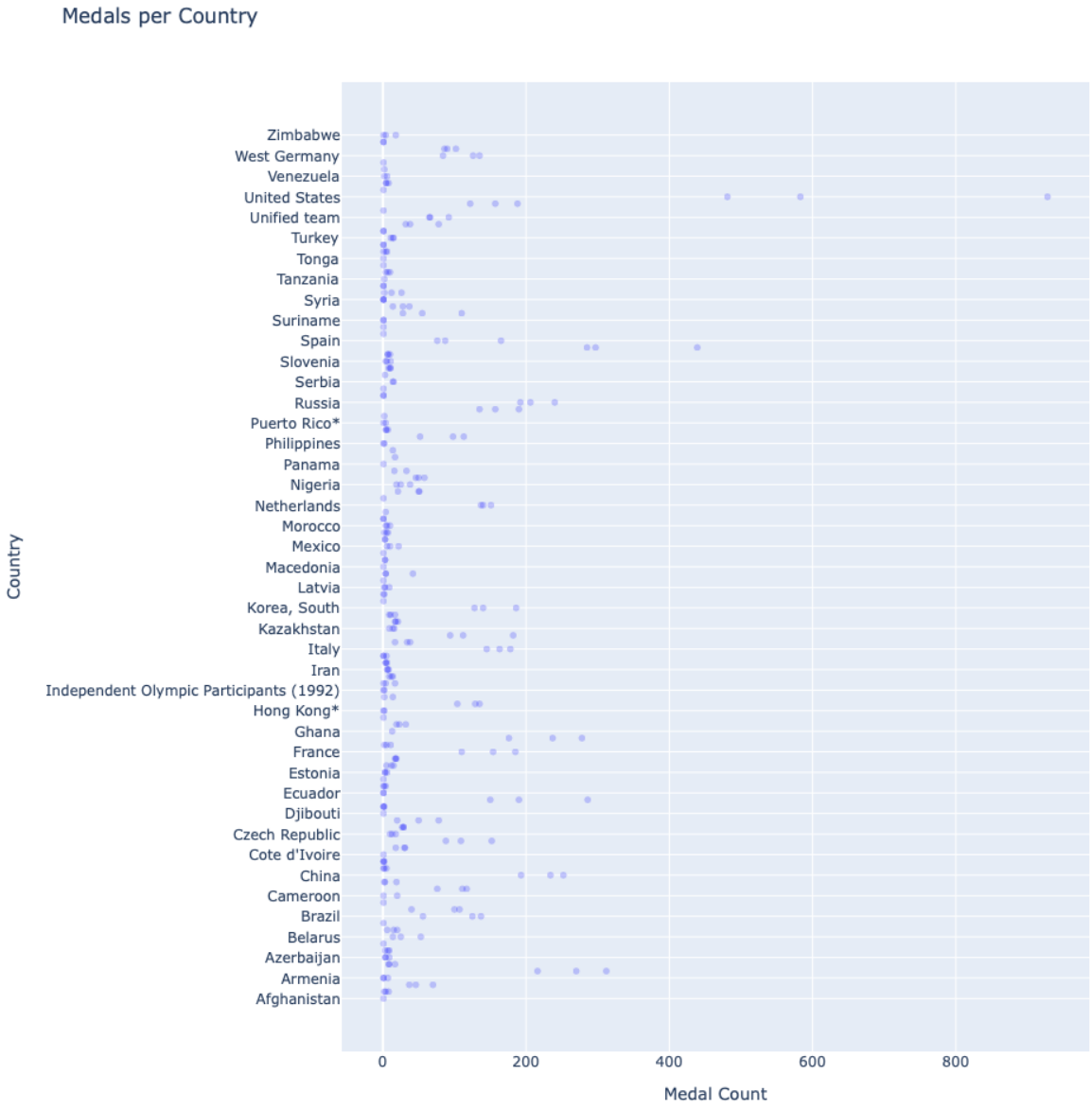
Analyzing the top 5 countries that won the medal.



Distribution of Medals per country

We can see that United States has exceptionally high amounts of medals. East Germany has the second highest number of medals.

This graph is plotted using plotly, it is a 3d scatter plot which will require you to run the code on your own machine.



What is the distribution of event genders?

Number of men participating are higher than women. There are also some common events.