



# Let's talk about the Summer Olympics

By

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# agenda



Datasets  
leveraged



Data wrangling  
journey



Questions and  
Insights



Conclusions

# Datasets leveraged



**For historical Olympic data from  
1896 – 2020:**

Published by Joseph Cheng

<https://www.kaggle.com/datasets/josephcheng/123456/olympic-historical-dataset-from-olympediaorg/data>



**For 2024 Paris Summer Olympics  
data:**

Published by Petro

<https://www.kaggle.com/datasets/piterfm/paris-2024-olympic-summer-games/data>



**For information on 2024 medal  
bonuses**

Published by Shirley Gomez with Hola!

<https://www.hola.com/us/entertainment/20240731710268/medal-bonuses-at-the-2024-paris-olympics-how-much-countries-will-pay-their-victorious-athletes/>

# Data wrangling journey

## Alignment

- Aligning the datasets with pandas
- Dropping columns from the historical data set
- Adding columns to the 2024 data set

## Concatenation

- Concatenating the data sets to review trends

## Consistency

- Ensuring that the country names were consistent across the datasets (China and Russia for example)

## Challenges

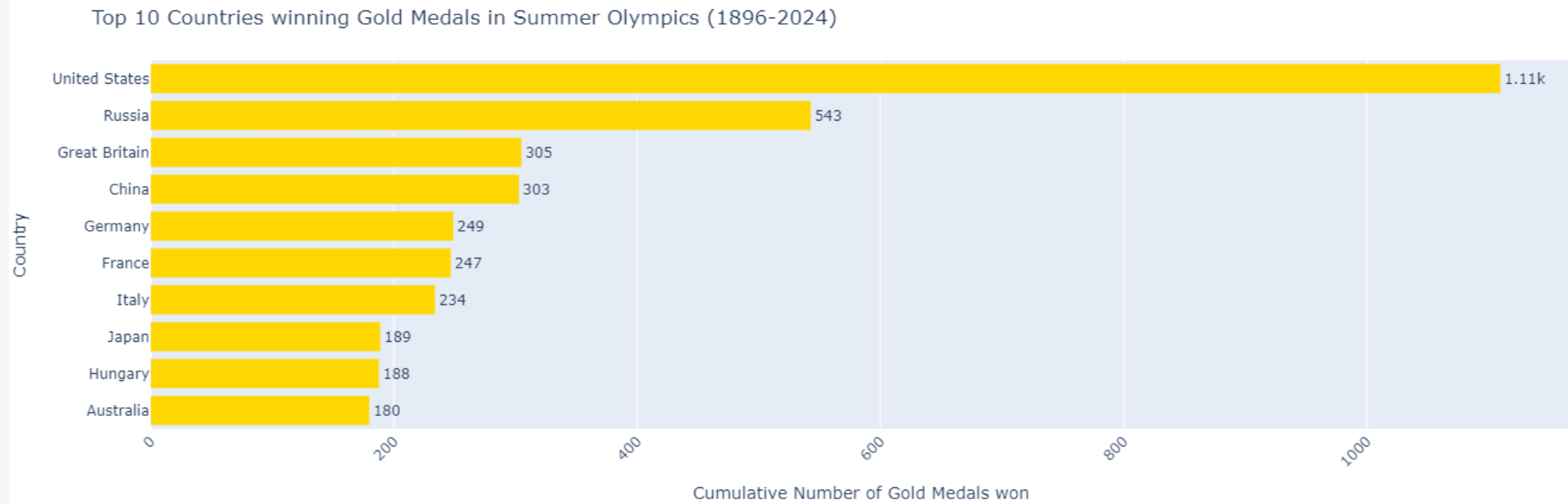
- Missing data for Russia and China in historical dataset



Questions asked

# Who wins the most Olympic gold medals?

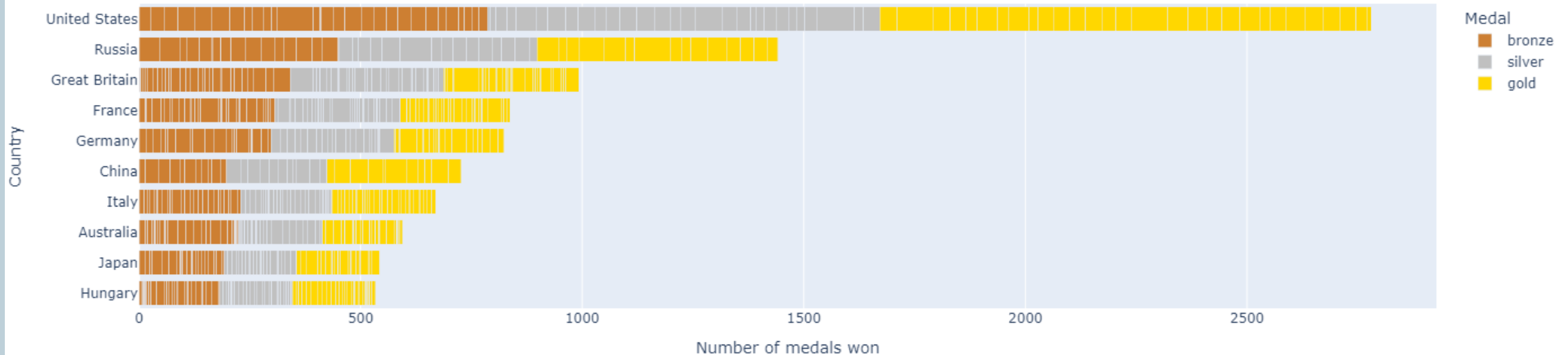
- The US and China topped the chart in 2024 with 40 gold medals
- United states won the tie breaker based on all medals won
- The United States also reigns supreme in gold medals for the modern Olympics (1896-2024)



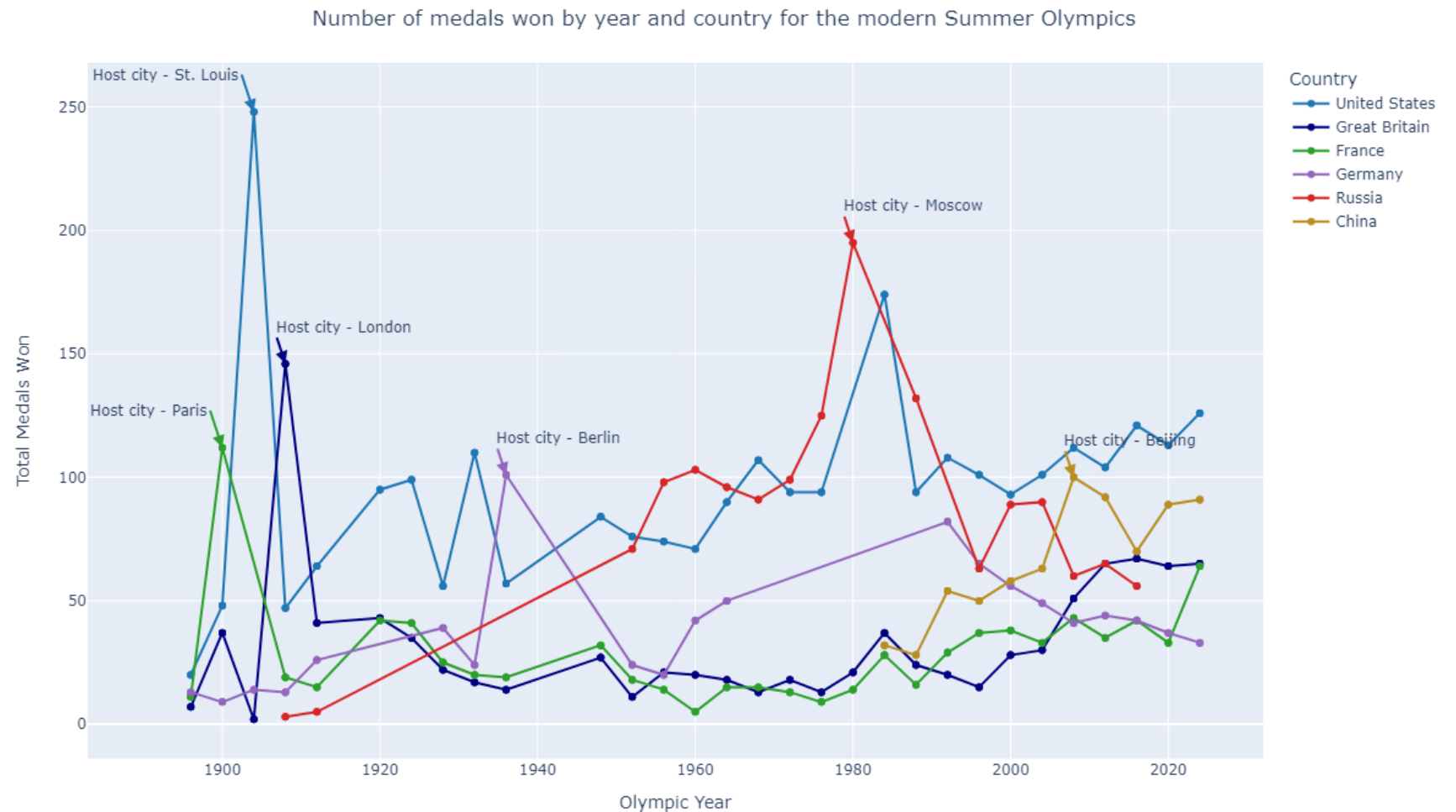
# Who wins the most Olympic medals?

- Again, the United States takes top honors
- Russia is still second, even after sanctions
  - In 2020 due to doping
  - In 2024 due to war in Ukraine

Cumulative number of medals won in the Summer Olympics - Top 10 Countries (1896-2024)



Who won the most medals by Olympic games?



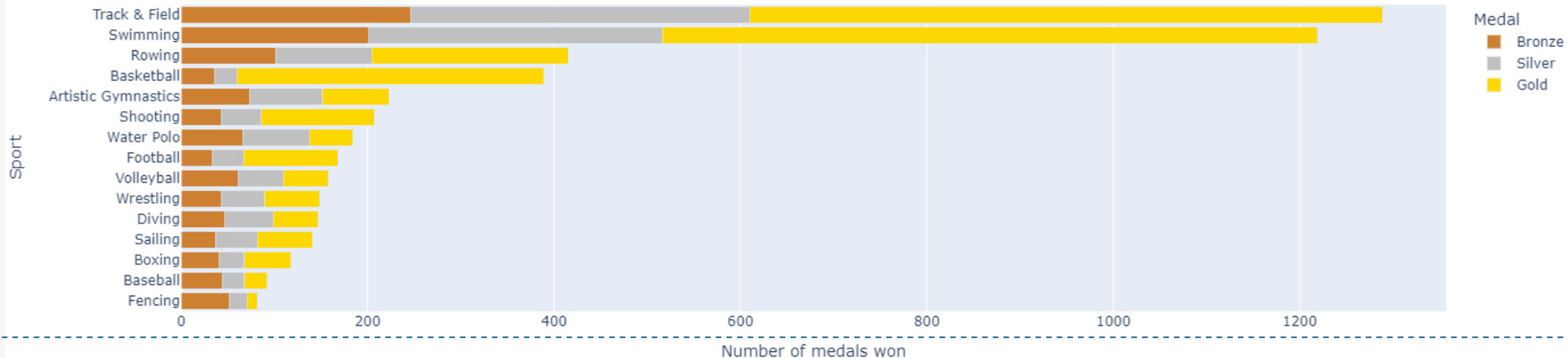
- Often, the host country sees a spike in medals won
- China has moved solidly into second place since the 2008 Beijing games
  - Russia has been banned from the Olympics since 2020



# Which sports contribute the most medals to the United States?

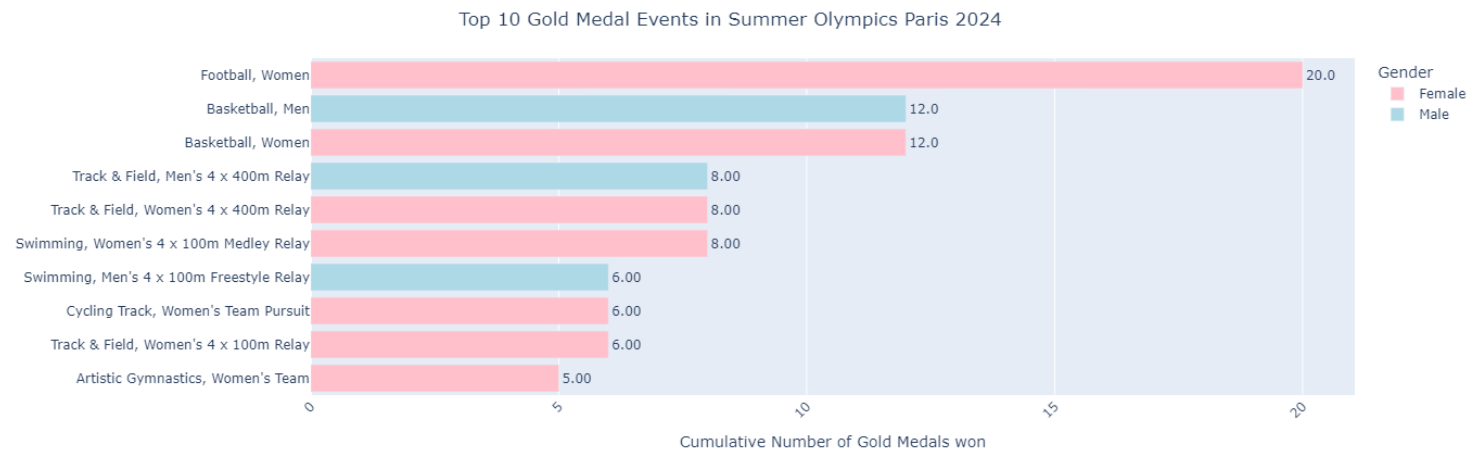
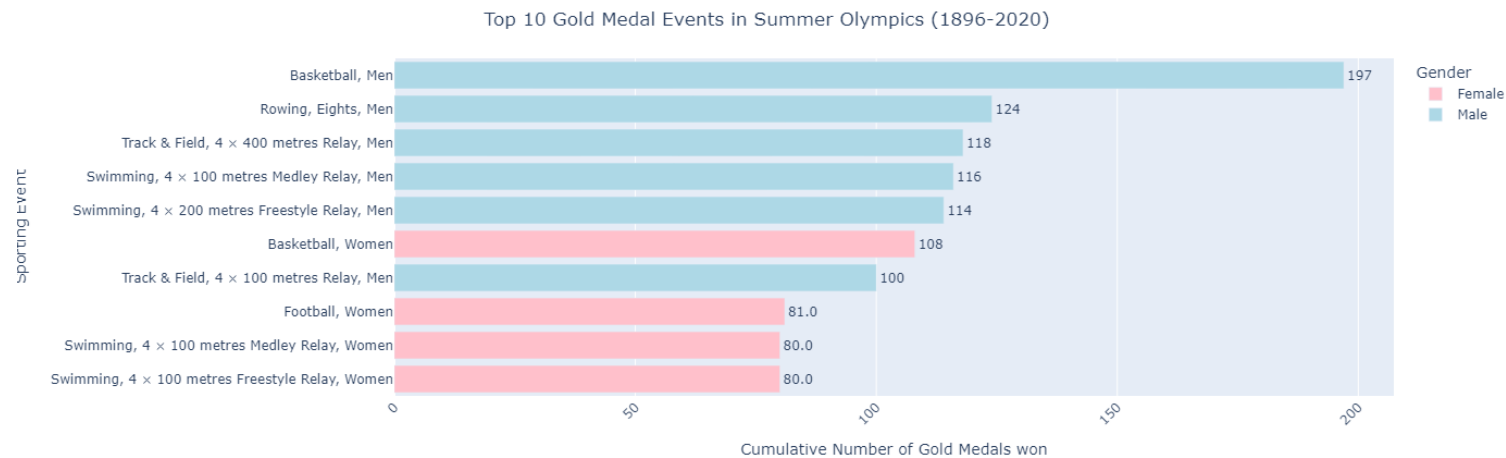
- Track & Field has edged out Swimming for the top spot
- Given the dominance of the NBA and WNBA it is no surprise that Basketball appears in the top 5
- Rowing and Gymnastics round out the top 5

Cumulative number of medals won in the Summer Olympics - Top 15 Sporting Categories for the United States (1896-2024)



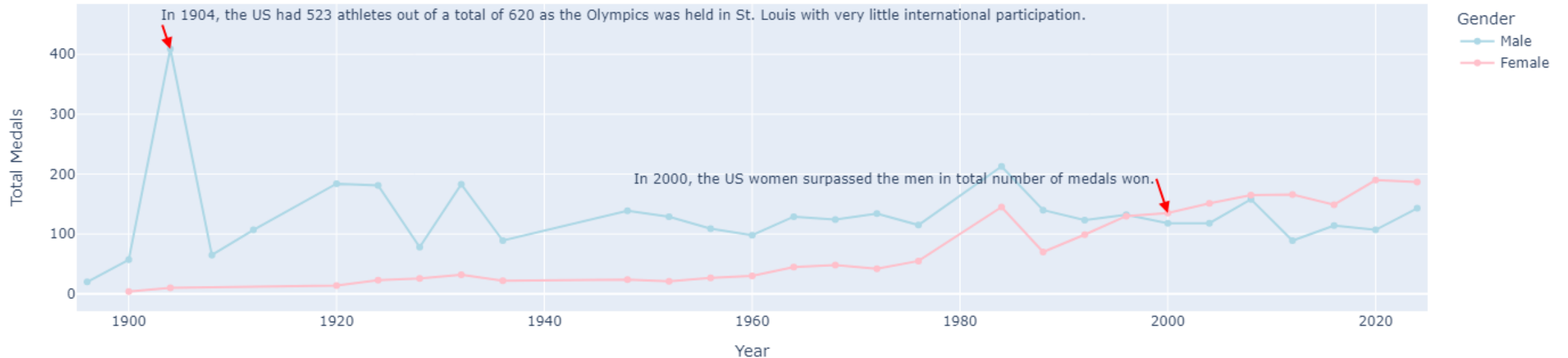
# Does gender play a role in the number of medals won for the United States?

- Historically, men's events have produced more medals for the US
- By the 2024 Paris Olympics there appears to be a shift towards the women's events



# When did the US women pass the men in total medals at the Summer Olympics?

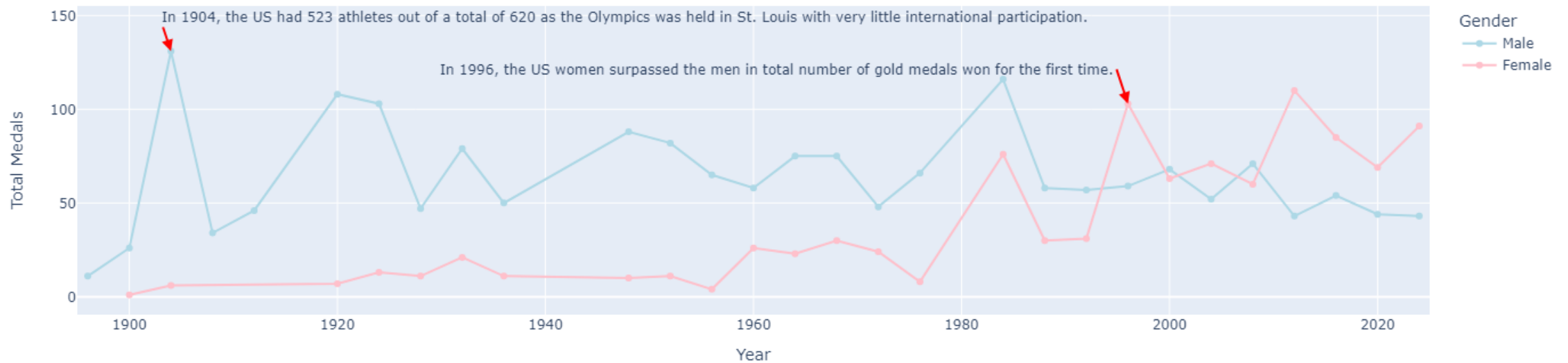
Total Olympic medals won by gender for the United States



# When did the US women surpass men in gold medals at the Summer Olympics?

- US women outperformed men in earning gold medals for the first time in 1996
- By 2020, they would also outperform the US men in all medals won.

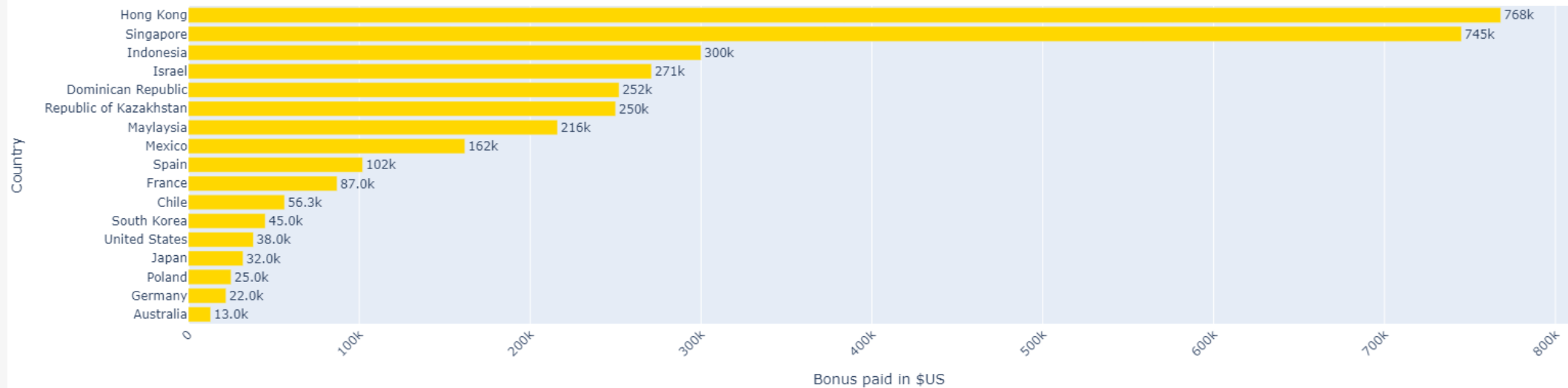
Total Olympic Gold Medals won by Gender for the United States



# How much are medal winning athletes awarded?

- The United States is not the most lucrative in medal bonuses awarded, that would be Hong Kong
- The International Olympic Committee does not compensate the medalists
- The amounts awarded are set and paid by the participating countries

Medal bonuses paid to 2024 Paris Olympic gold medalists





# Conclusions

- In the modern Olympic games (beginning 1896) the United States has consistently topped the medal counts
- Russia and China have consistently been the closest competition to the United States in winning medals
- The host nation for the Olympics typically sees a spike in medals won
- In the last 3 decades the US women have grown to be quite formidable in winning medals and now outperform the US men.
- Track & Field has resulted in the most medals for the United States.
- Hong Kong is the place to be, to be awarded the most cash for a gold medal.