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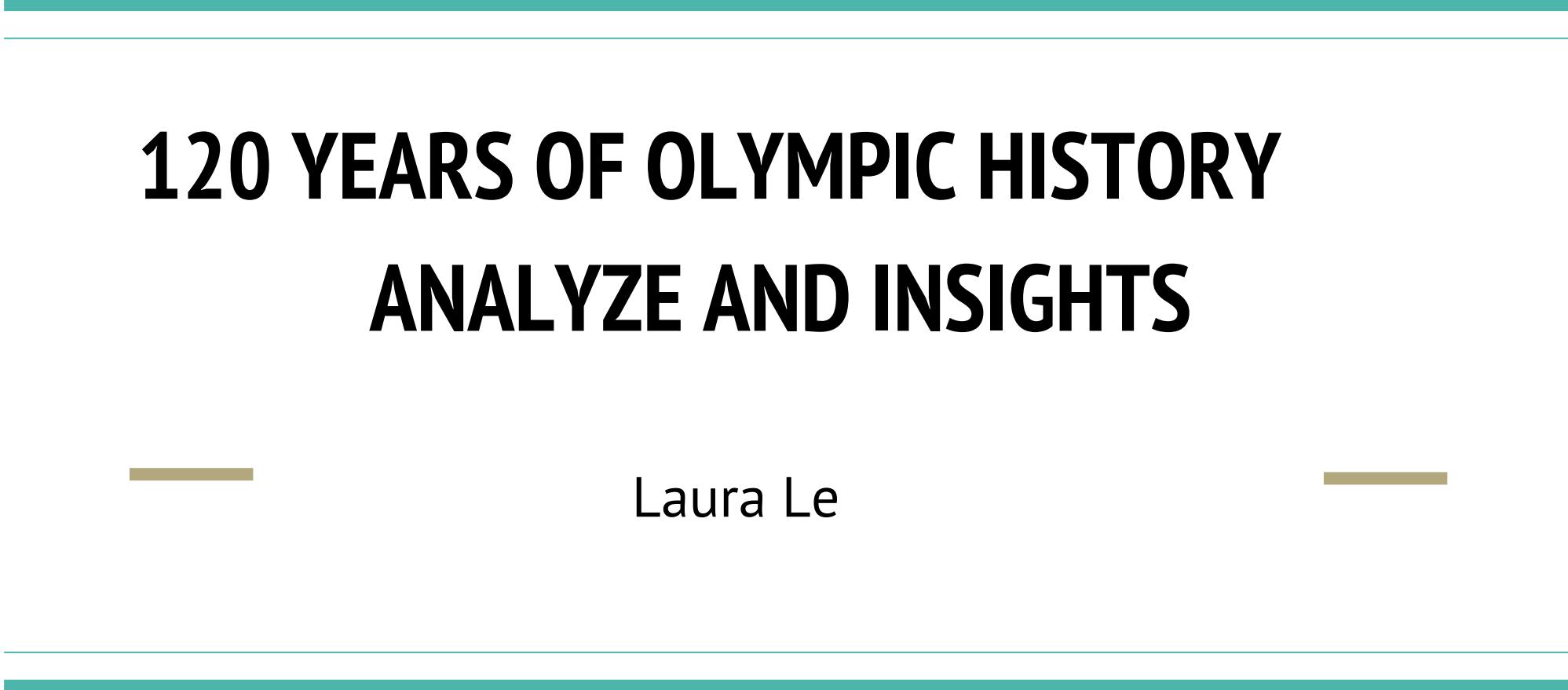
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# **120 YEARS OF OLYMPIC HISTORY**

## **ANALYZE AND INSIGHTS**

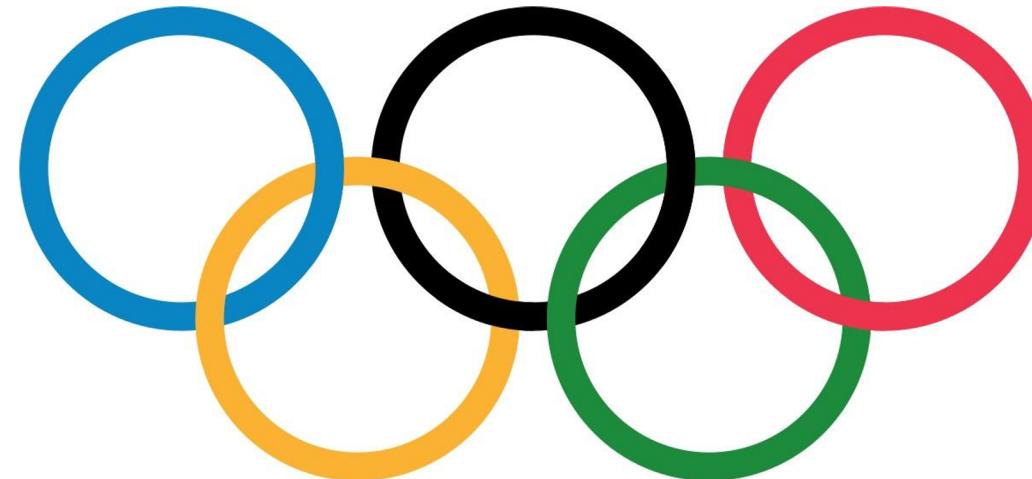
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Laura Le

# WHAT IS THE DATASET ABOUT



Source: <https://www.kaggle.com/heesoo37/120-years-of-olympic-history-athletes-and-results>

This dataset includes all the modern Olympic Games from Athens 1896 to Rio 2016. It tells us how the Olympics have evolved over time

# DATASET INFORMATION

Athlete\_events.csv

15 columns 271117 rows

- 1: ID
- 2: Name
- 3: Sex
- 4: Age
- 5: Height
- 6: Weight
- 7: Team
- 8: NOC
- 9: Games
- 10: Year
- 11: Season
- 12: City
- 13: Sport
- 14: Event
- 15: Medal

noc\_regions.csv

3 columns 230 rows

- 1: NOC
- 2: region
- 3: notes

# DATA CONCERNS & WRANGLING

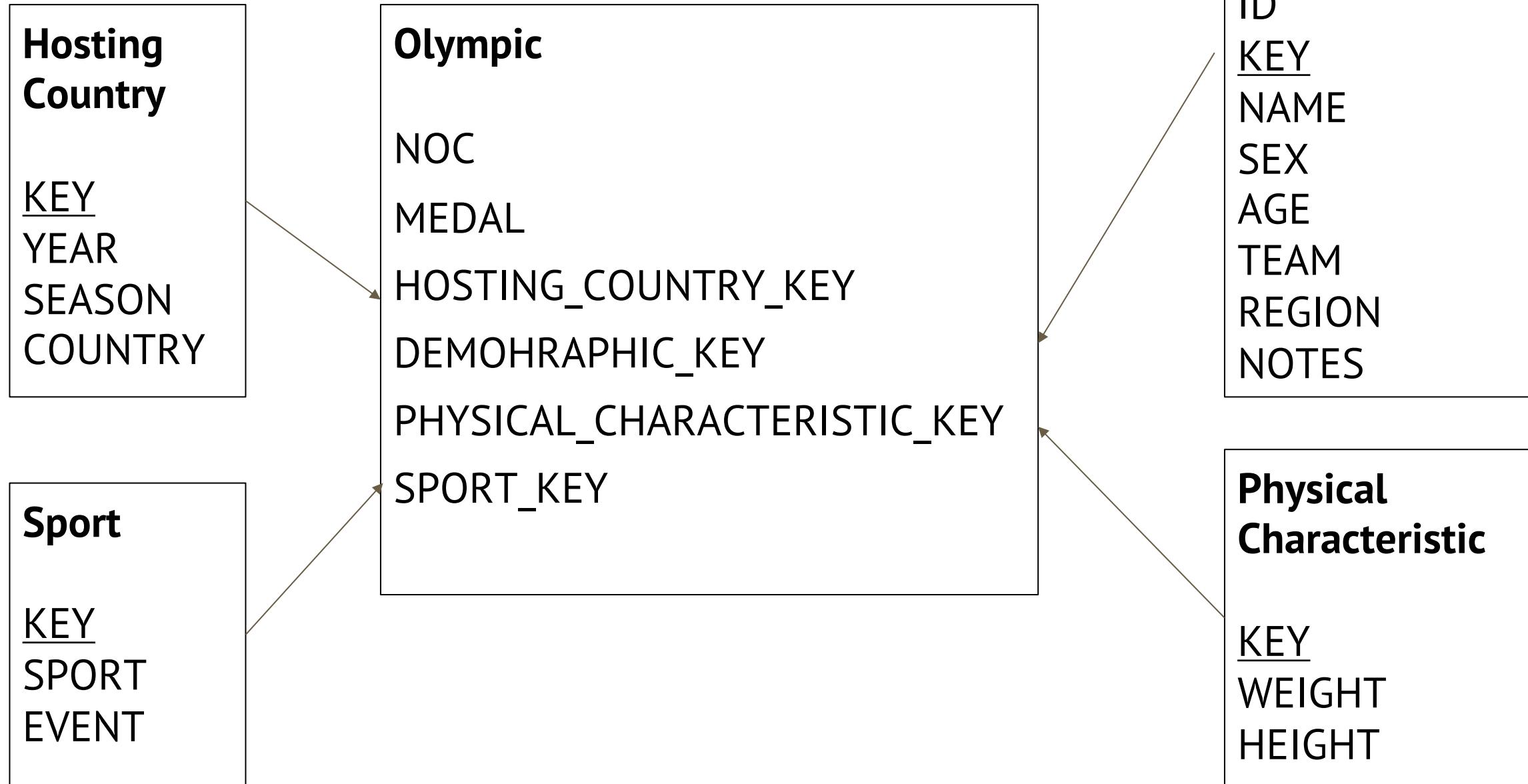
## CONCERNS

- Duplicate information** : Column ‘Games’ contains year and season, while the dataset also has columns ‘Year’ and ‘Season’.
- Insufficient information**: Column ‘City’ provides hosting city but no hosting country.
- Data type**: All data types in original csv file are **string**.
- Missing values** - NA value in ‘Age’, ‘Weight’ and ‘Height’.

## SOLUTIONS

- Drop col: “Games”.
- Create new “Country” column and drop "City" column.
- Converted dataset to correct data type.
- Keep the values and converted ‘NA’ to 0.

# STAR SCHEMA:



# EXPLORING DATA

1. COMPARE FEMALE & MALE ATHLETES PERFORMANCE

- a. Number , Increase percentage
- b.attendants, gained medals.

1. PHYSICAL CHARACTERISTICS OF TOP BEST ATHLETES IN 5 SPORTS.

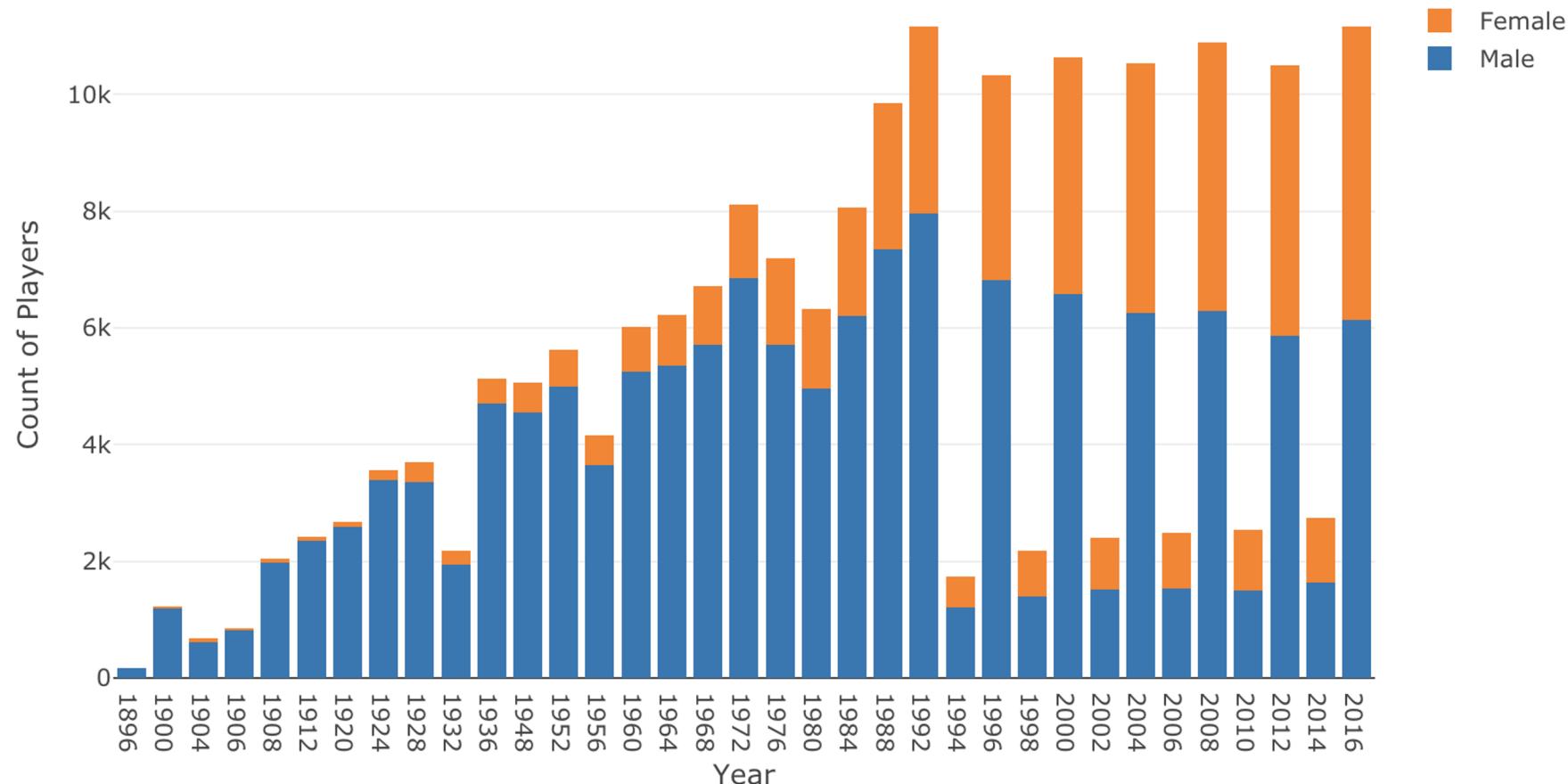
- a. Height
- b. Weight

1. RELATIONSHIP BETWEEN HOST COUNTRIES & ATHLETES' PERFORMANCE

- a. Performance at athletes' countries
- b. Performance at other countries

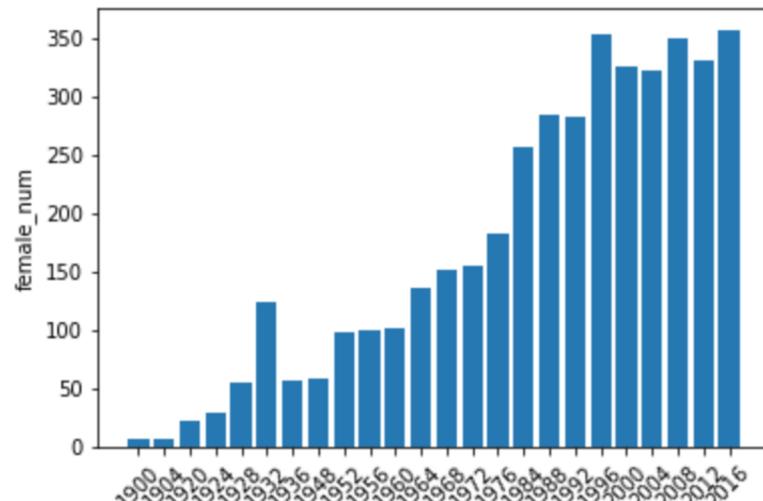
# 1. COMPARE FEMALE & MALE ATHLETES' PERFORMANCE

Male Vs Female Participation in Olympic from the year 1896 - 2016

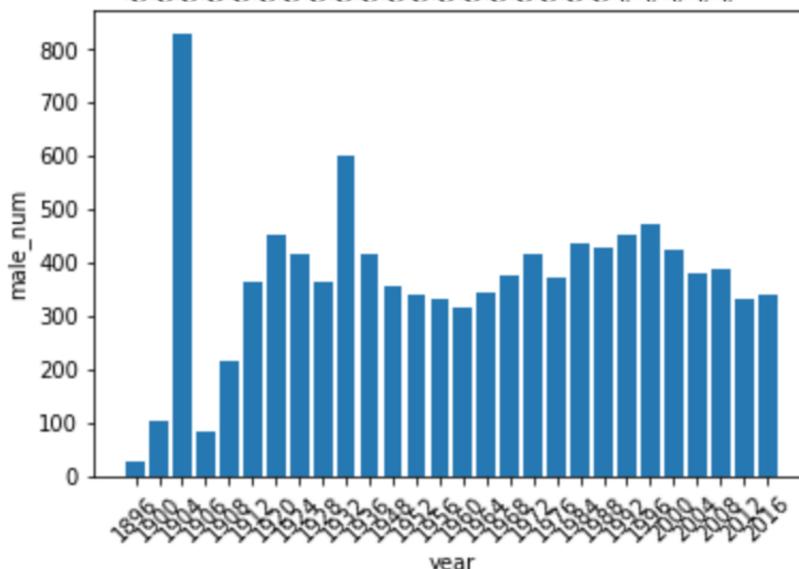
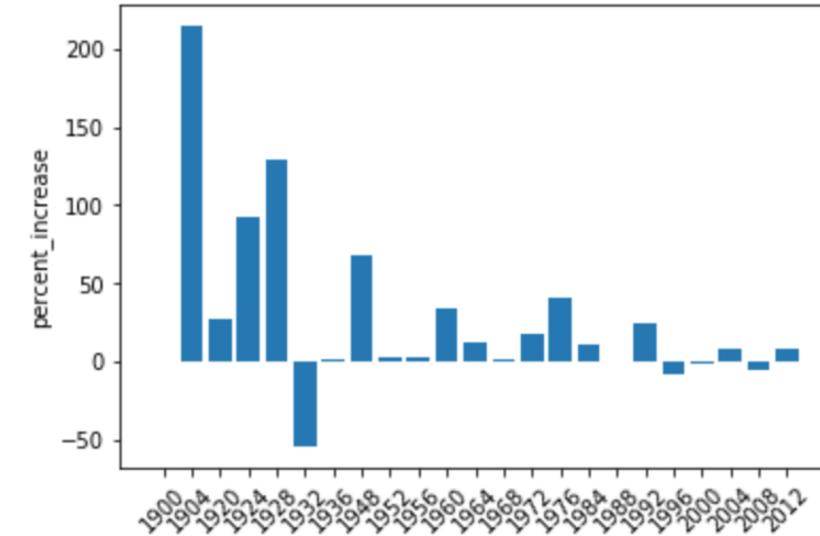


# COMPARE PARTICIPATION RATE

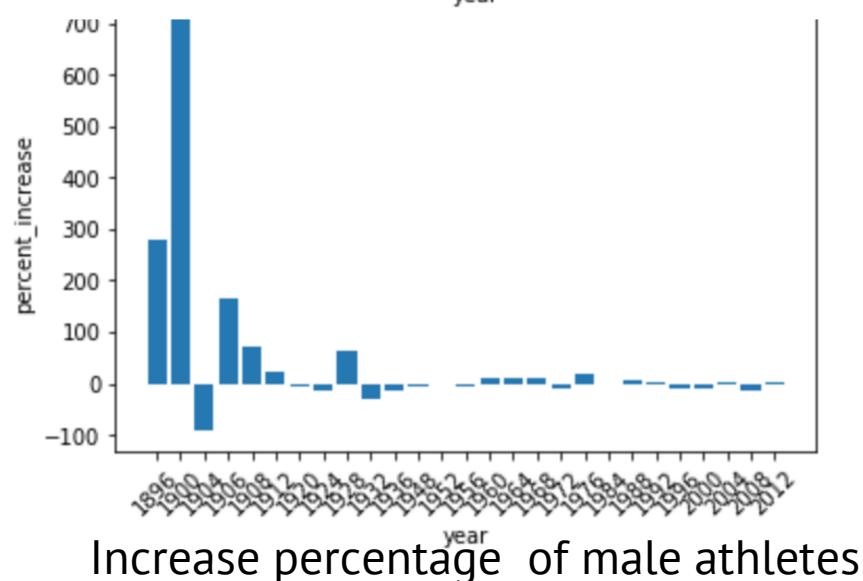
The number of female athletes



Increase percentage of female athletes



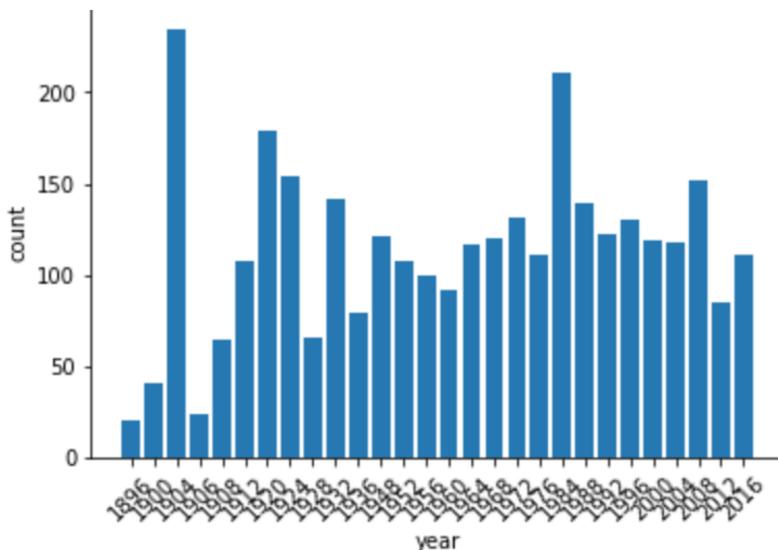
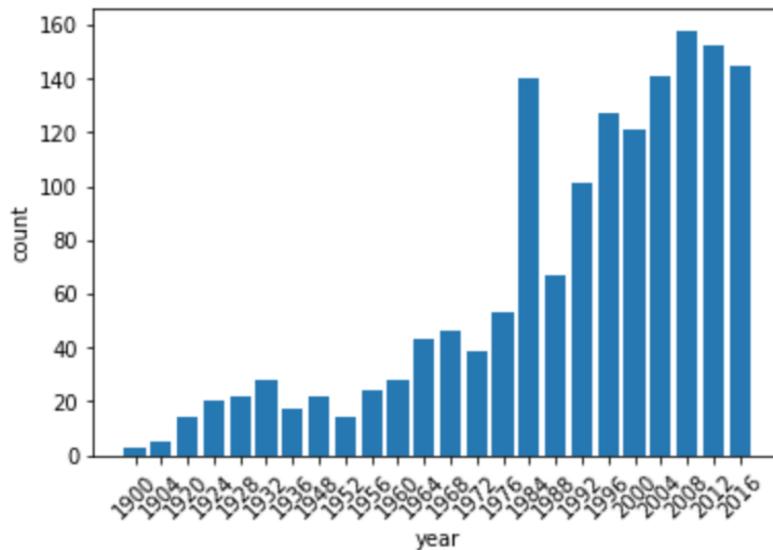
The number of male athletes



Increase percentage of male athletes

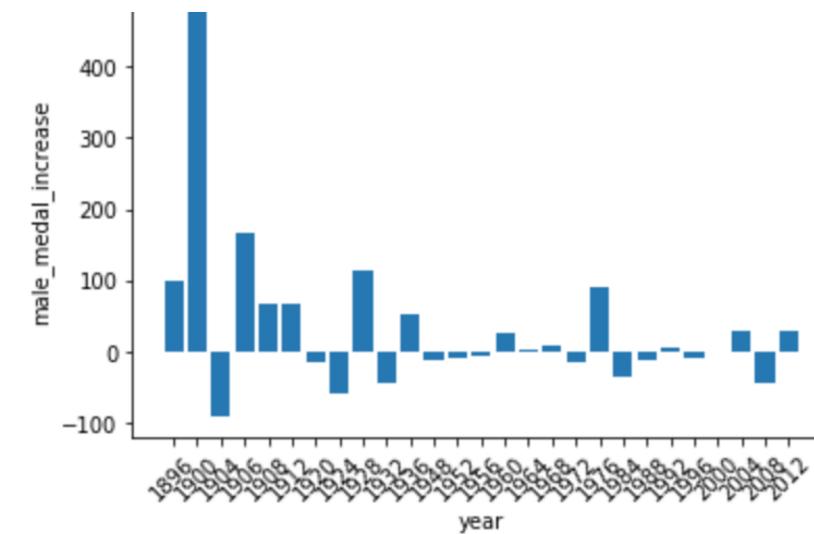
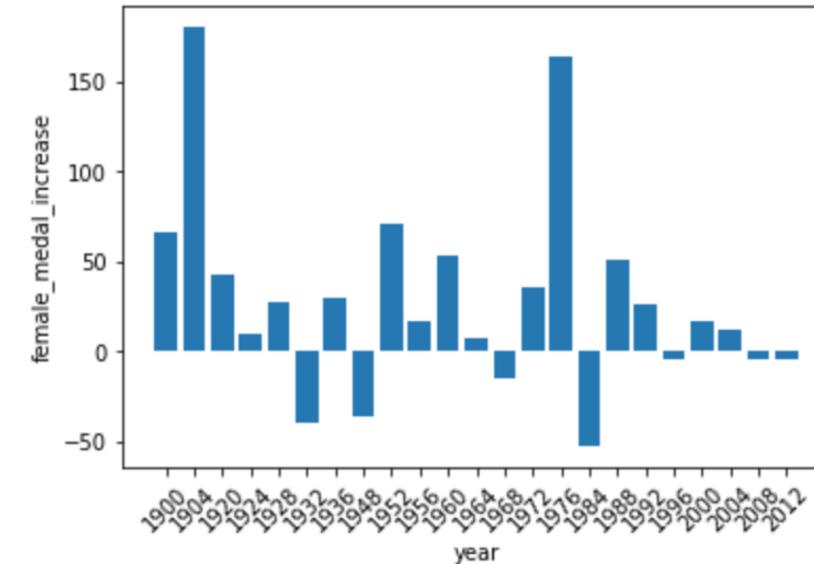
# COMPARE GAINED MEDALS

Female athletes' medals



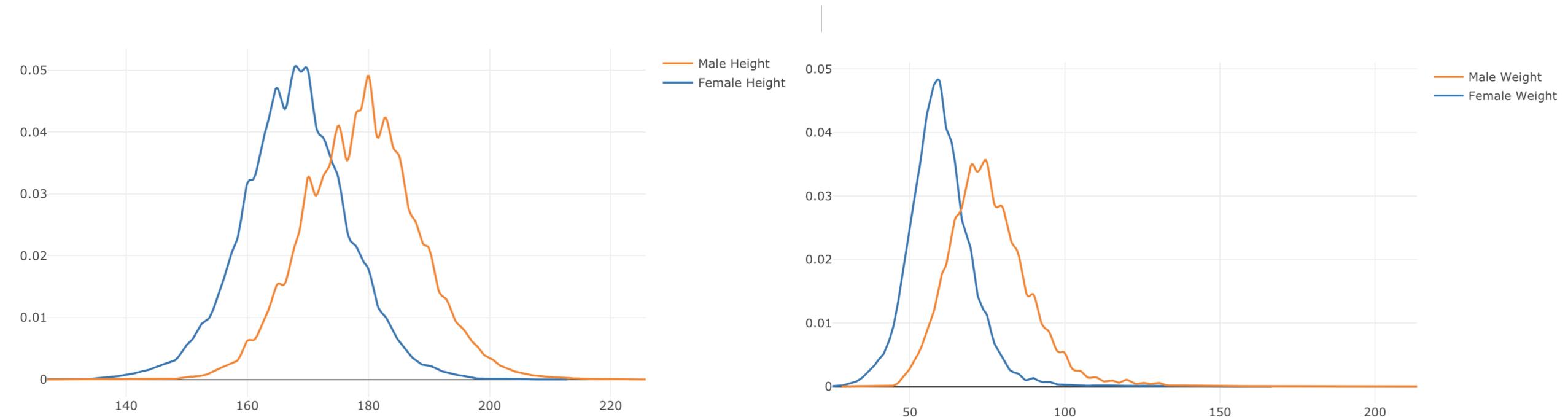
Male athletes' medals

Increase percentage of medals won by females

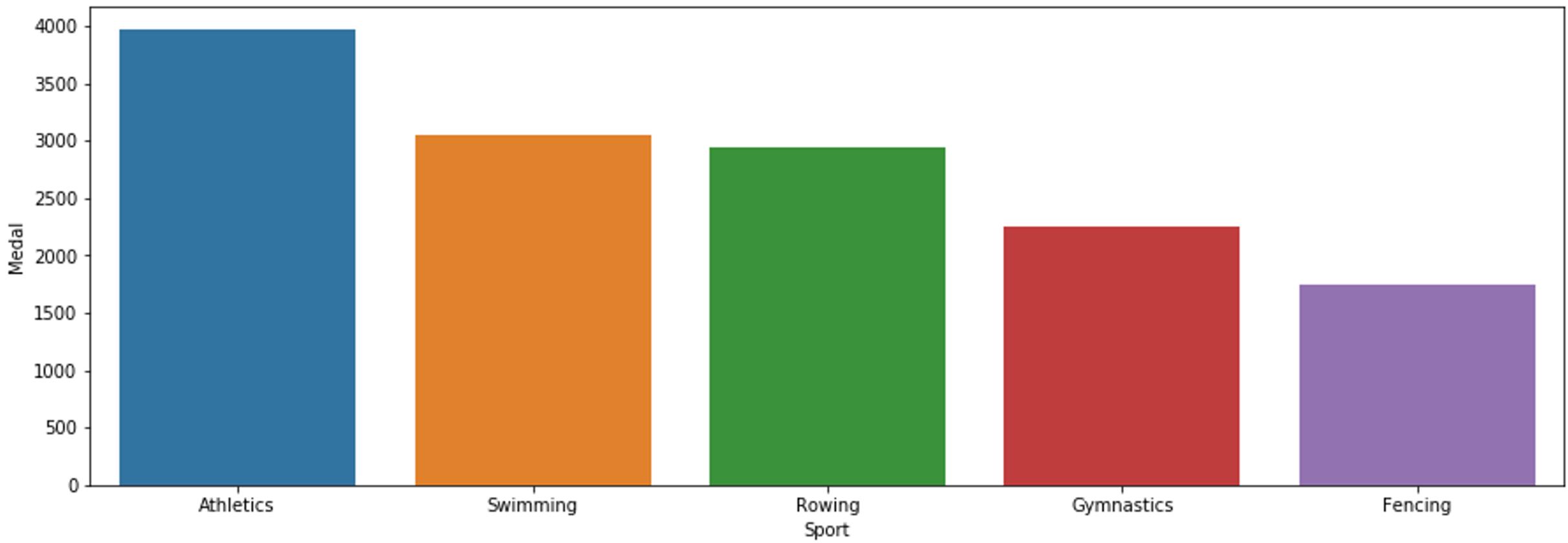


Increase percentage of medals won by males

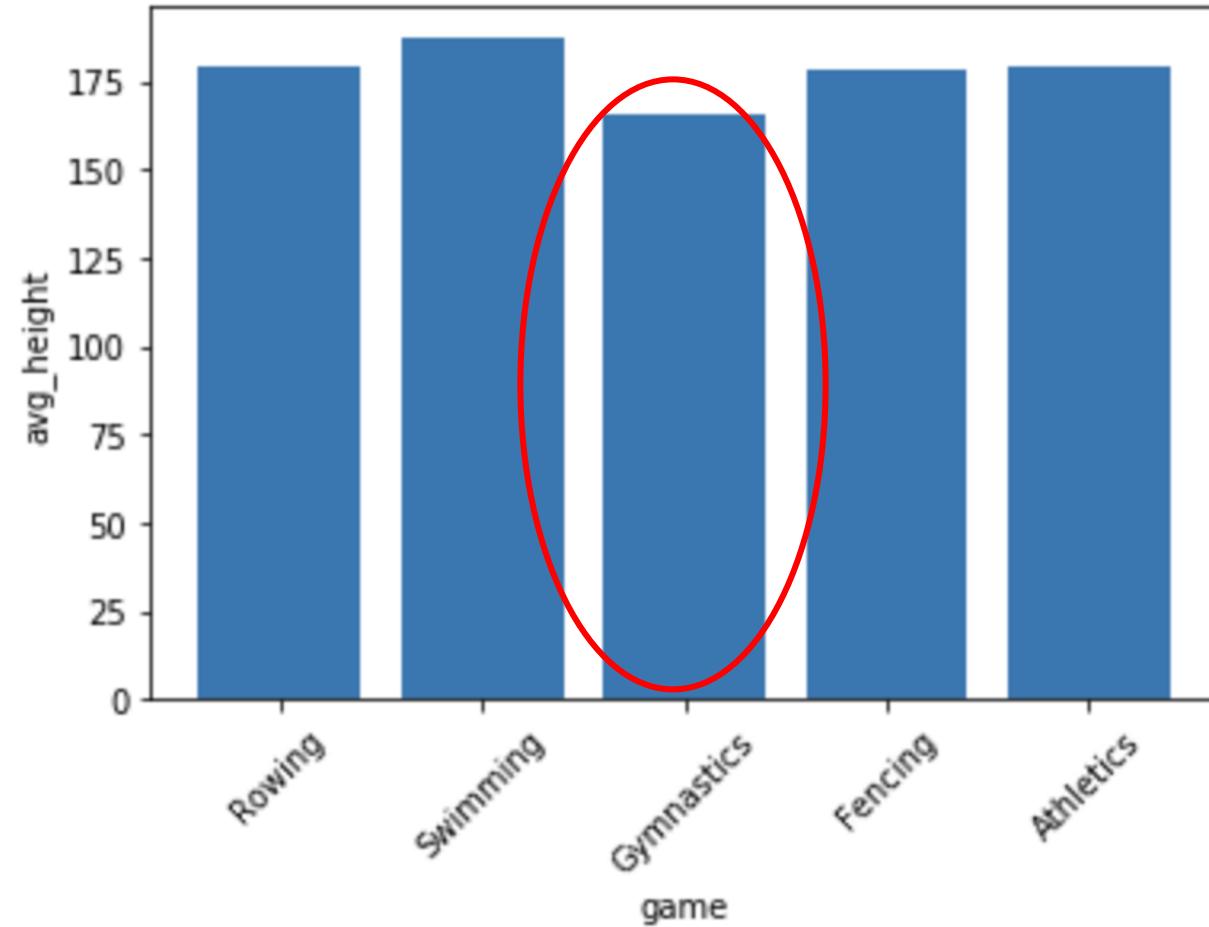
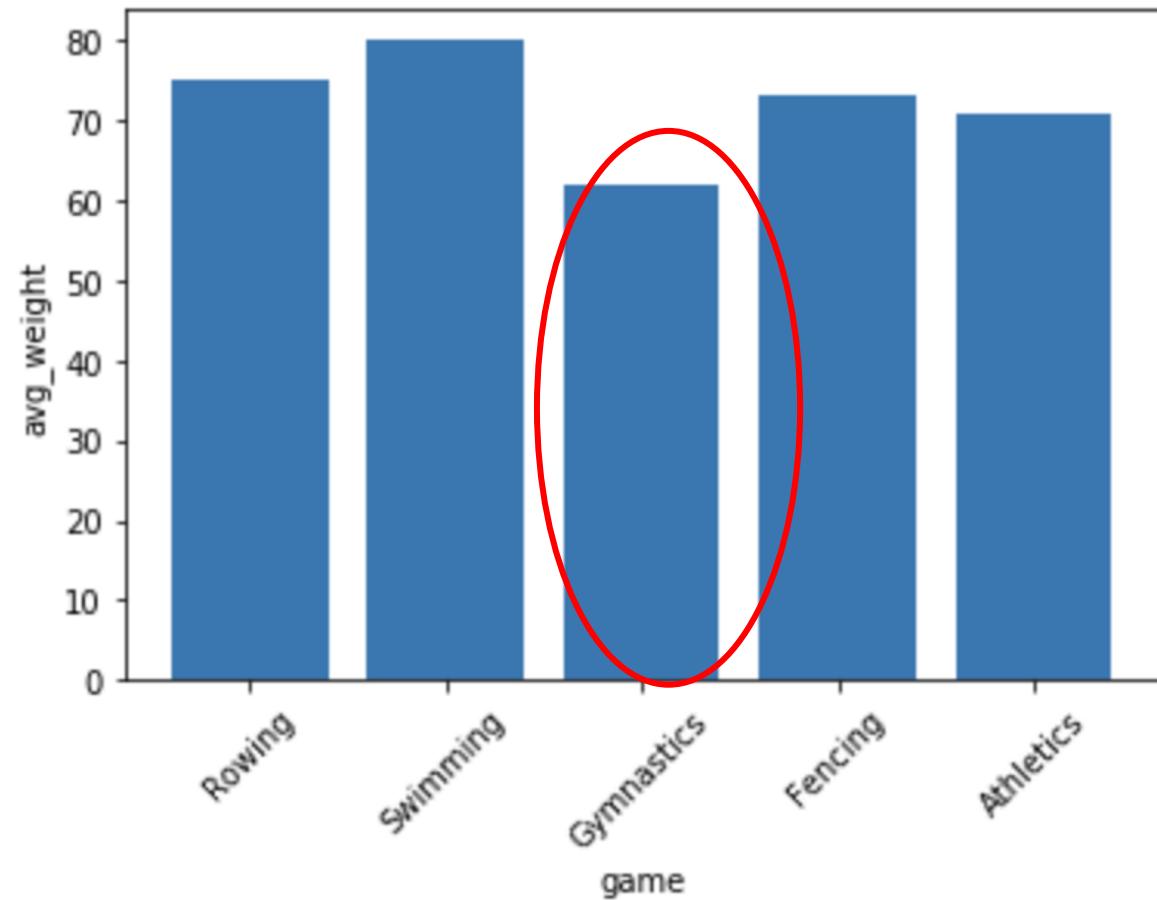
## 2. PHYSICAL CHARACTERISTICS OF TOP BEST ATHLETES



# TOP 5 MOST POPULAR SPORTS IN OLYMPIC



# COMPARE ATHLETES' HEIGHT AND WEIGHT IN DIFFERENT SPORTS



# 3. RELATIONSHIP BETWEEN HOST COUNTRIES & ATHLETES' PERFORMANCE

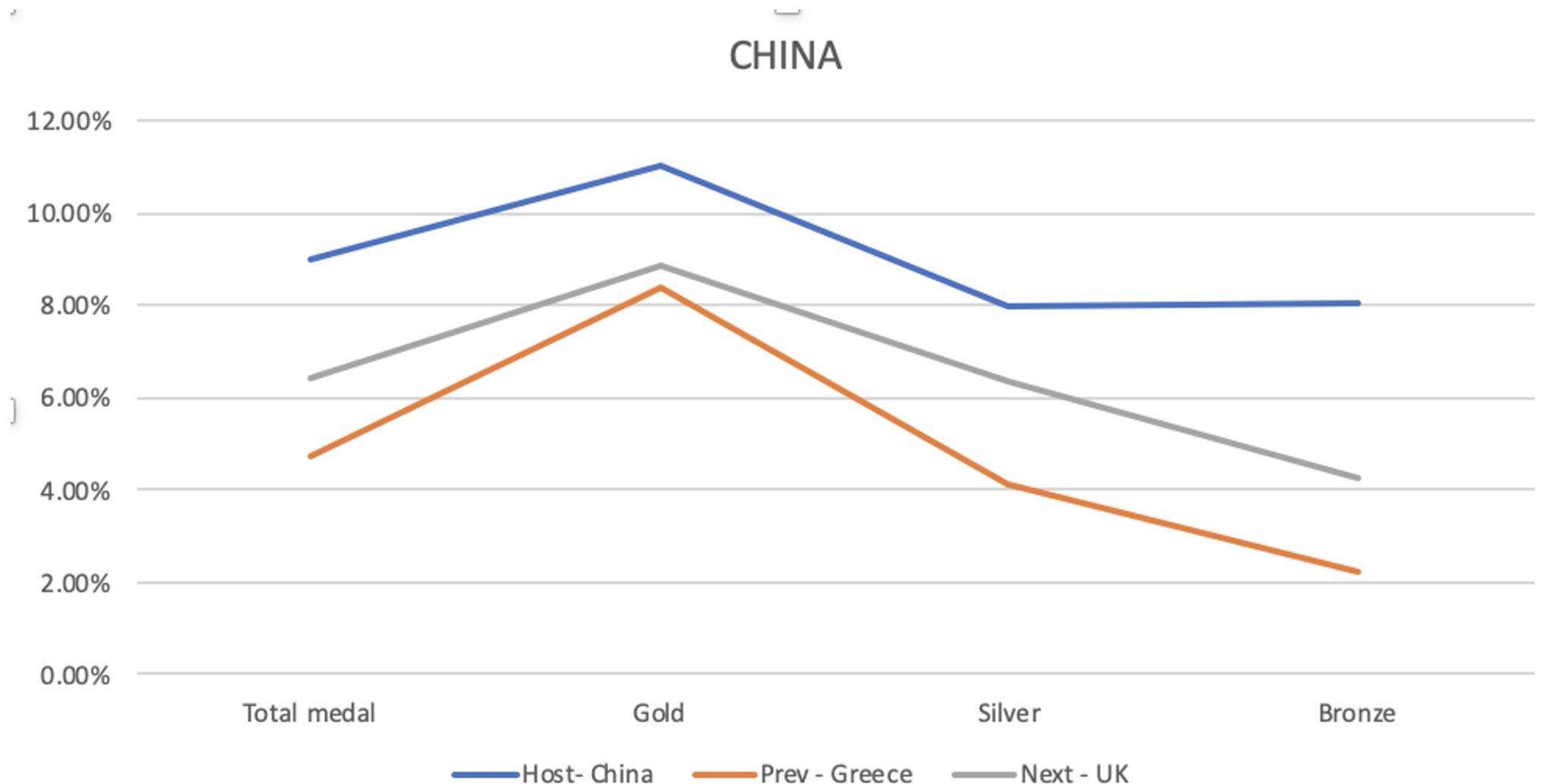
**3 COUNTRIES HOSTED OLYMPIC GAMES**

**ONE TIME:**

- China: Summer 2008
- South Korea: Summer 1988
- Brazil: Summer 2016

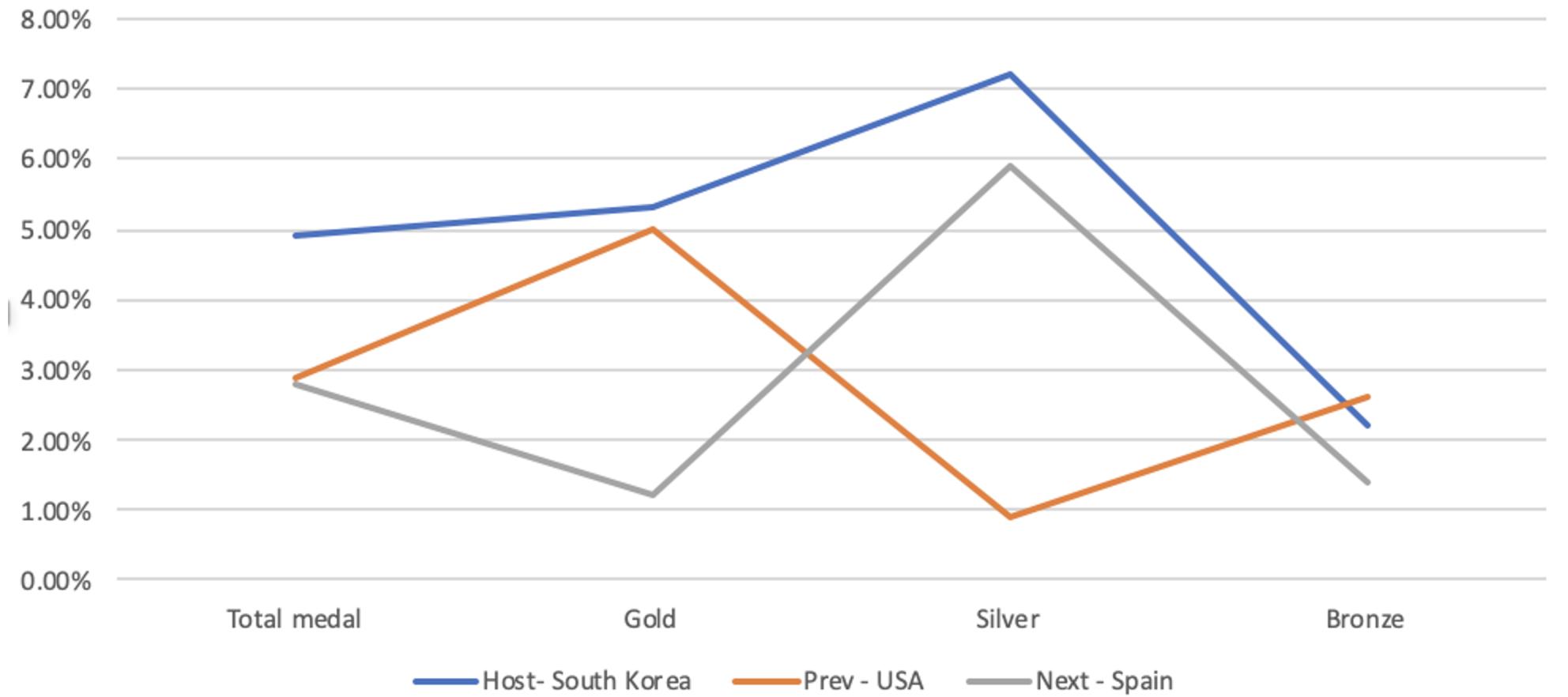
season	country	numberoftimes
Summer	Australia	2
Winter	Austria	2
Summer	Belgium	1
Summer	Brazil	1
Summer	Canada	1
Winter	Canada	2
Summer	China	1
Summer	Finland	1
Summer	France	2
Winter	France	3
Winter	Germany	1
Summer	Germany	2
Summer	Greece	3
Summer	Italy	1
Winter	Italy	2
Summer	Japan	1
Winter	Japan	2
Summer	Mexico	1
Summer	Netherlands	1
Winter	Norway	2
Summer	Russia	1
Winter	Russia	1
Summer	South Korea	1
Summer	Spain	1

# CHINA



# SOUTH KOREA

SOUTH KOREA



# BRAZIL

Brazil

