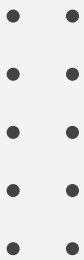


# Olympian

A Shiny project by Lucas Kim



# Olympians

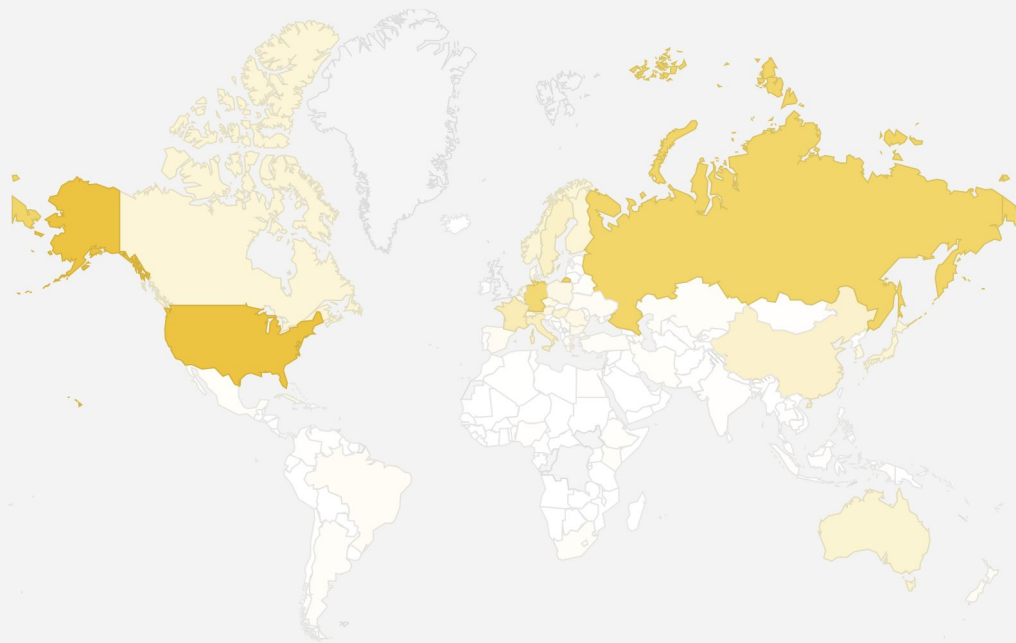
What the best performing countries have in common?

What makes an Olympian?

Evolution of female athletes

How modern olympians have improved physically?

# Olympic medals by country



0 2,823

**11,711**

Europe

**4,036**

America

**2,024**

Asia

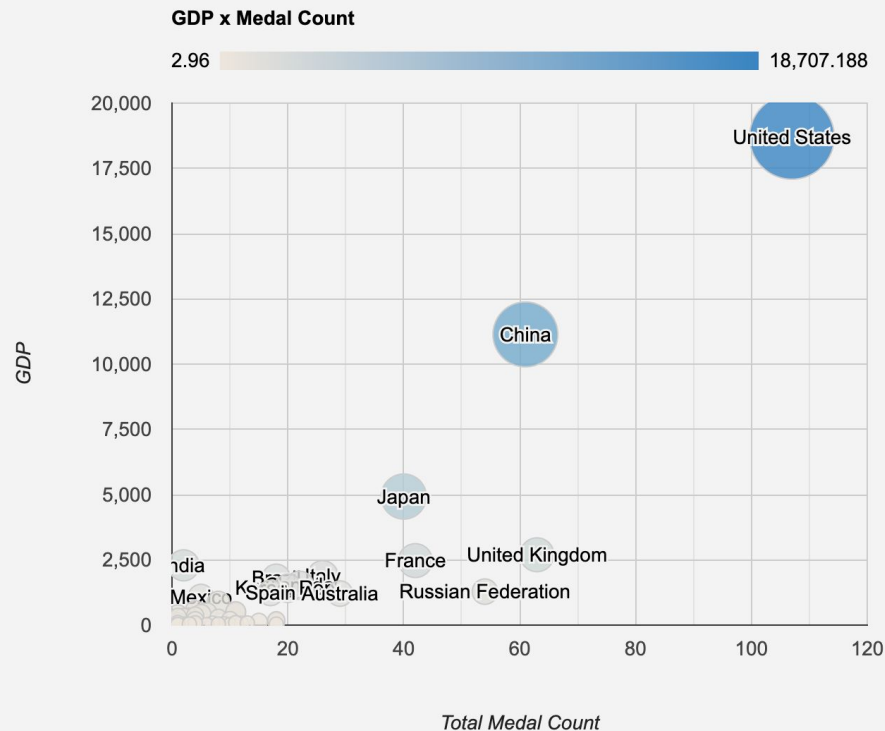
**649**

Oceania

**404**

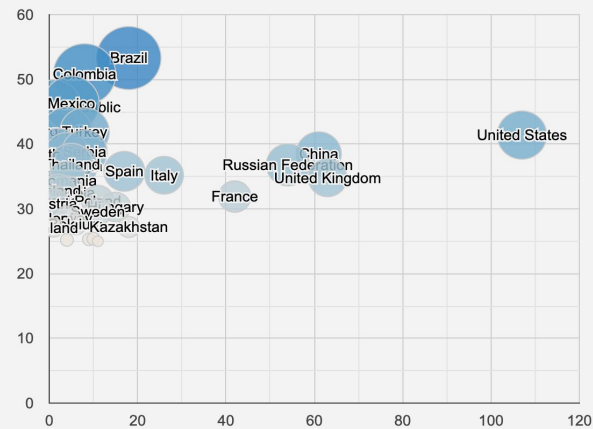
Africa

# GDP x Medals

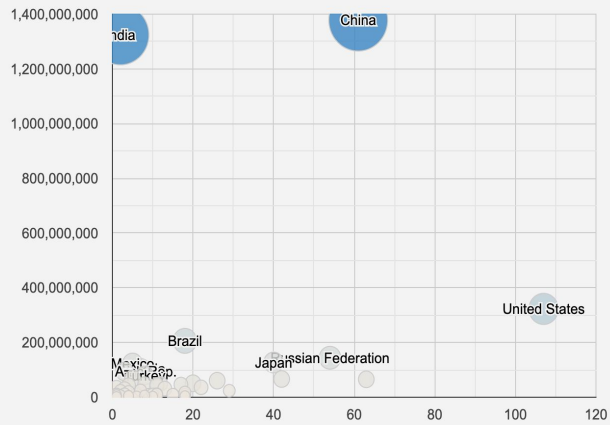


The top 10 medal earning countries in the 2016 Summer Olympics (Rio de Janeiro) were: **USA, Great Britain, China, Russia, Germany, Japan, France, South Korea, Italy** and **Australia**. All of them were in the top 14 economies of the world for the same year.

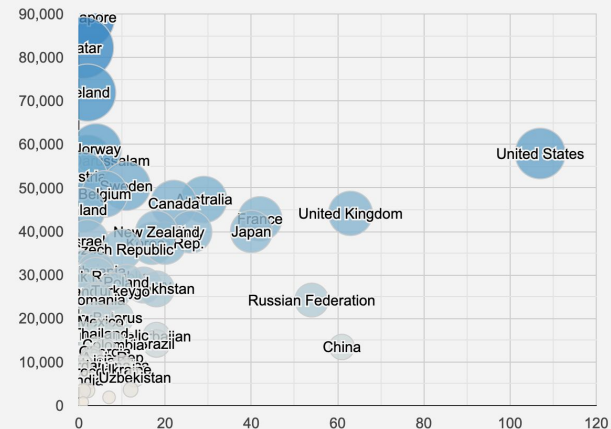
# Indices x Medals



*Total Medal Count*

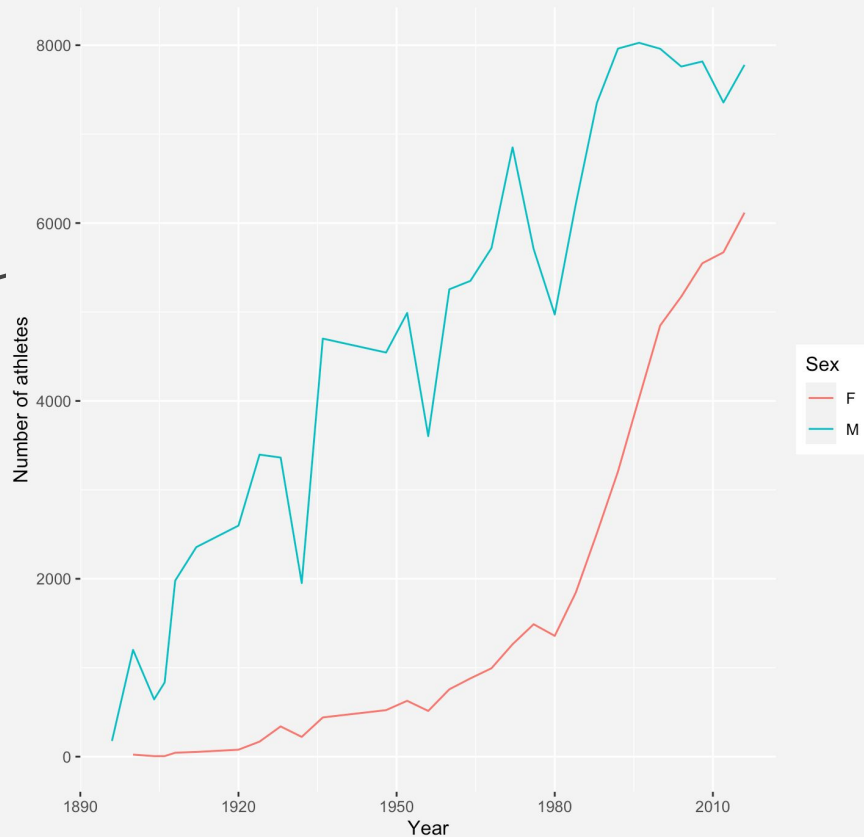


*Total Medal Count*



*Total Medal Count*

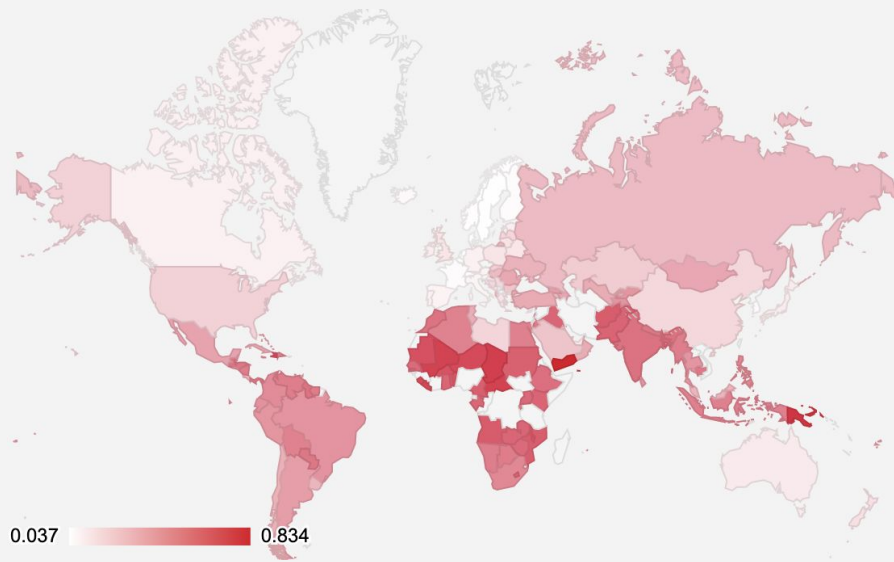
# Women in the Olympics



1900

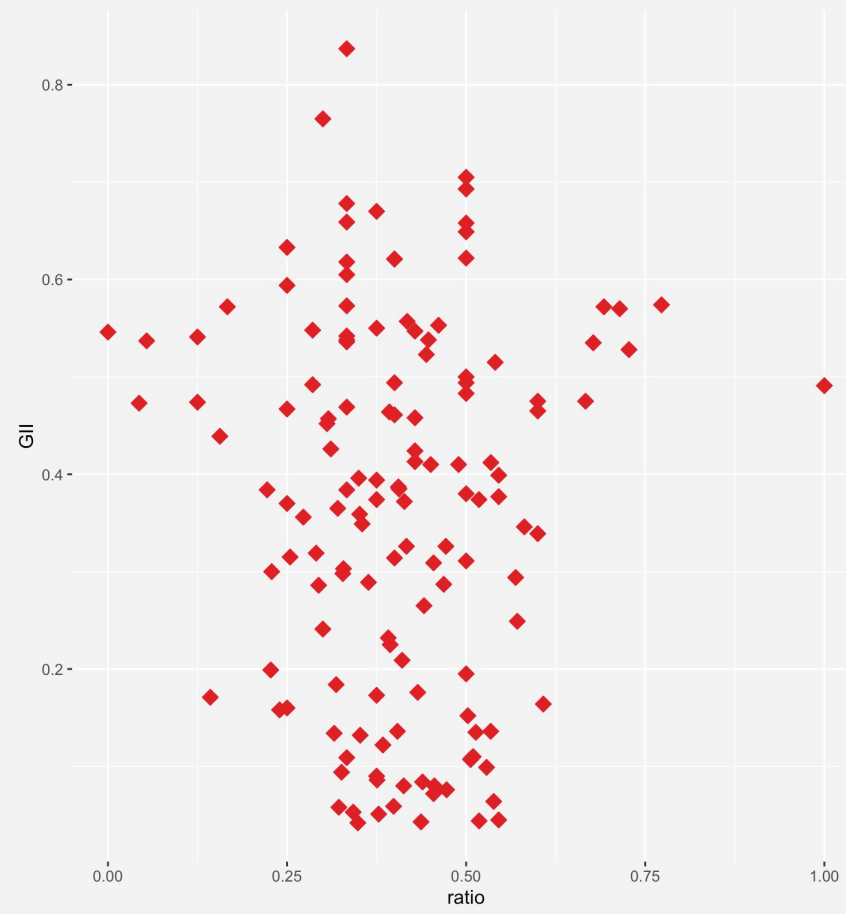
**Twenty-two women** (2.2%) out of a total of 997 athletes competed in five sports.

# Gender Inequality Index (GII) x Ratio of Women Athletes



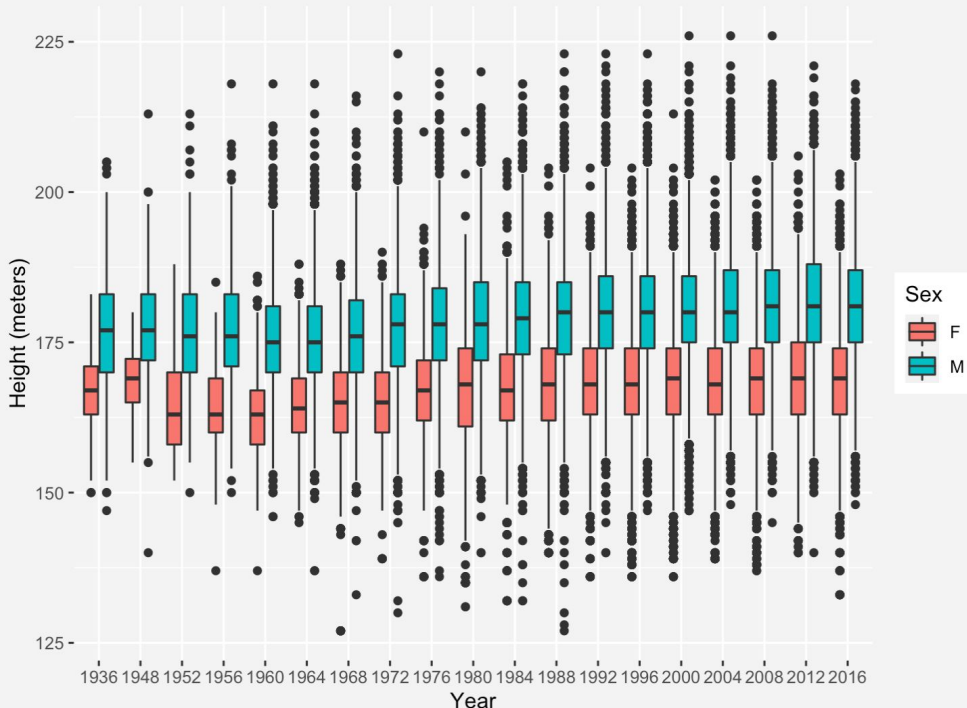
0.037 0.834

0: women and men fare equally  
1: one gender fares as poorly as possible in all measured dimensions.

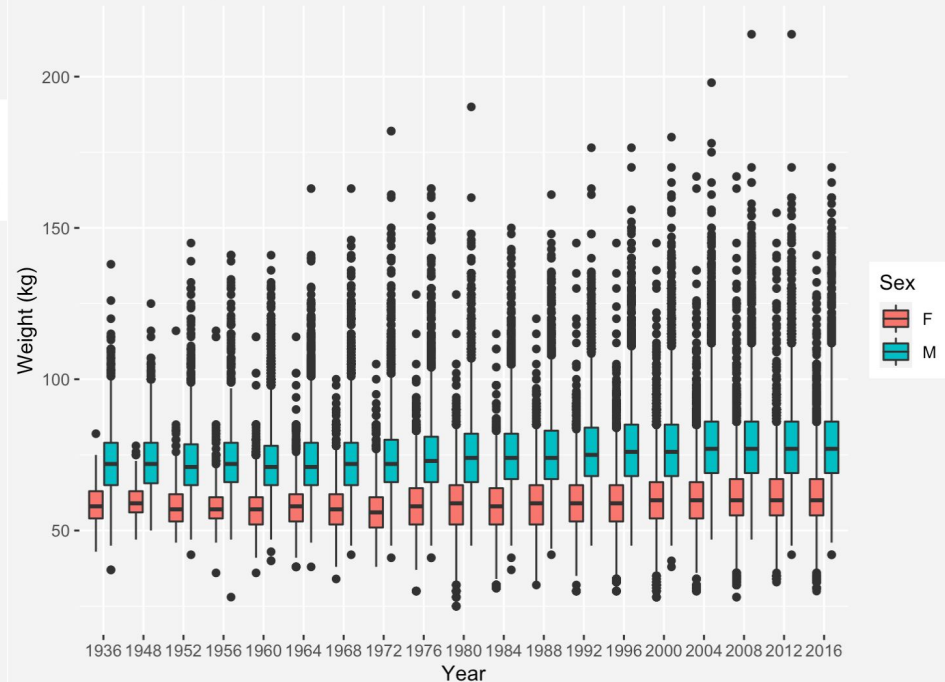


# Physical Characteristics

Median height each Olympic event

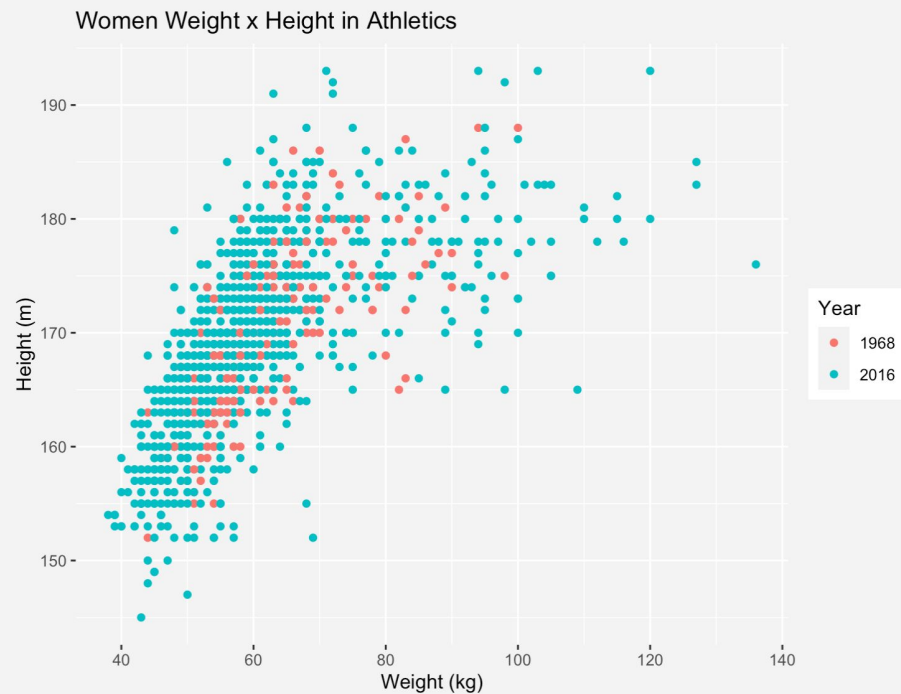
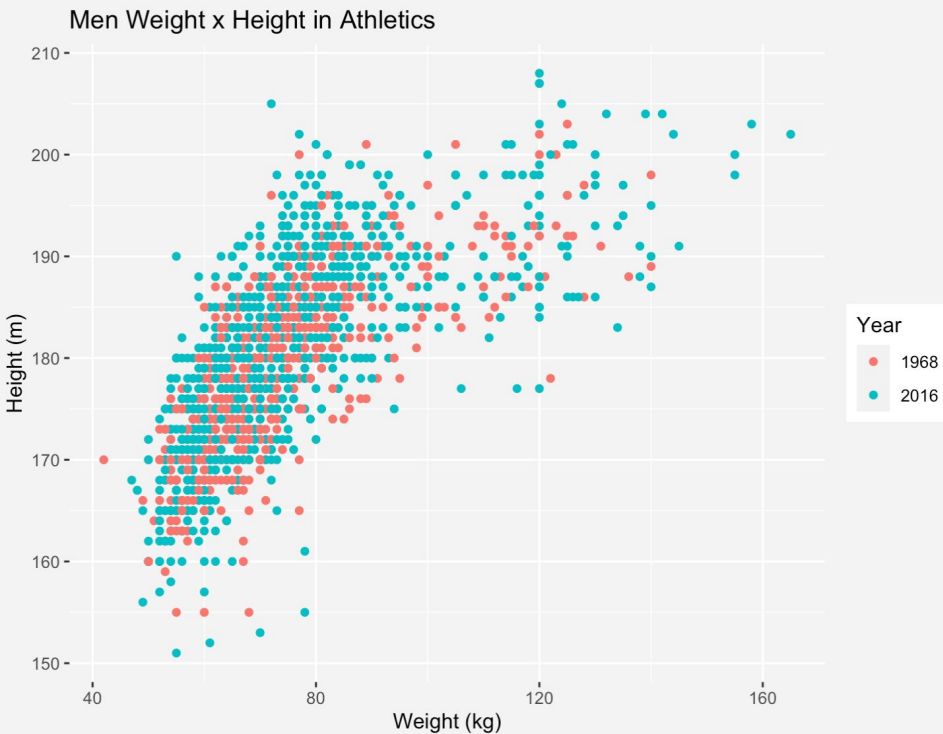


Median weight each Olympic event



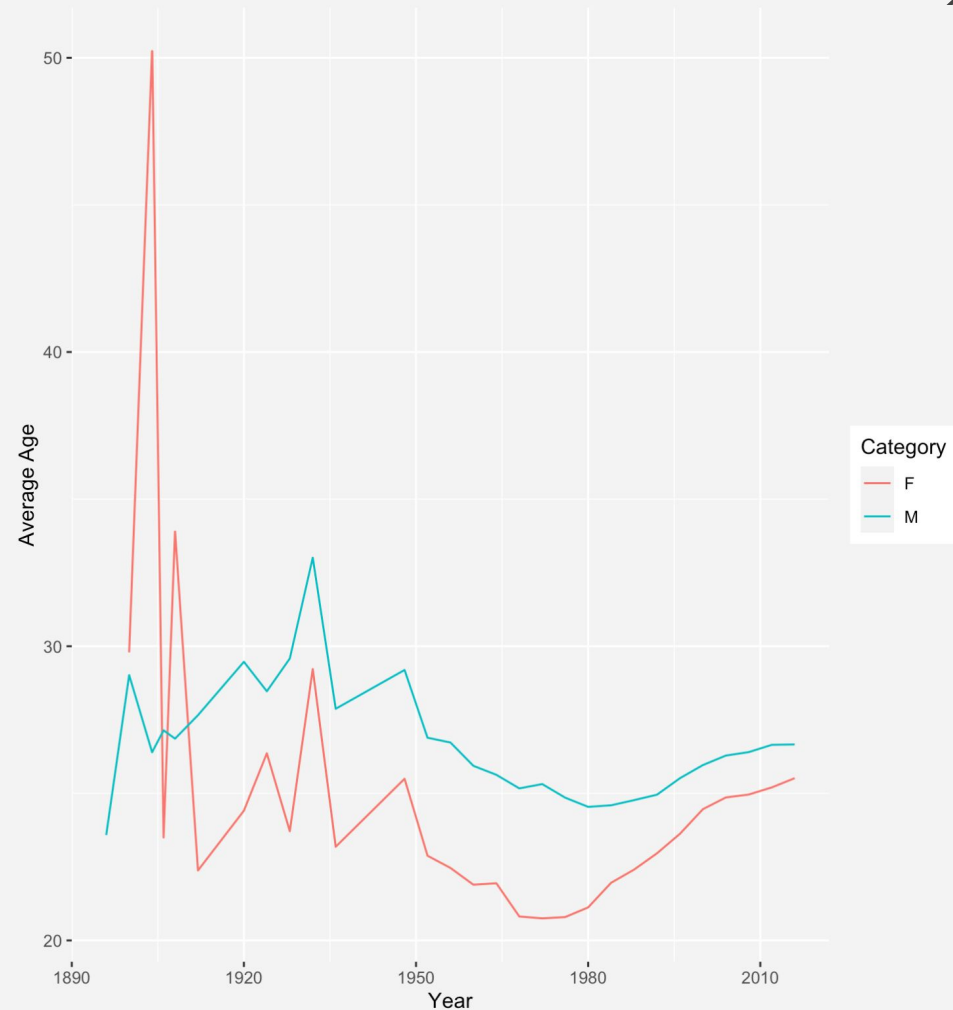


# Weight & Height in Athletics



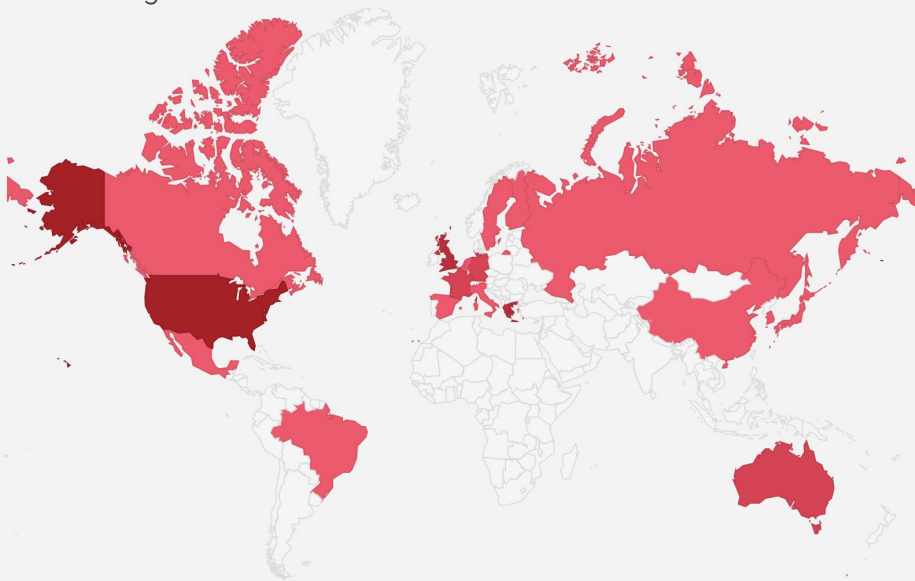
# Average age of olympians

From 1956 to 1984 olympics, there were a lot of boycott thus the average dropped quite a bit.



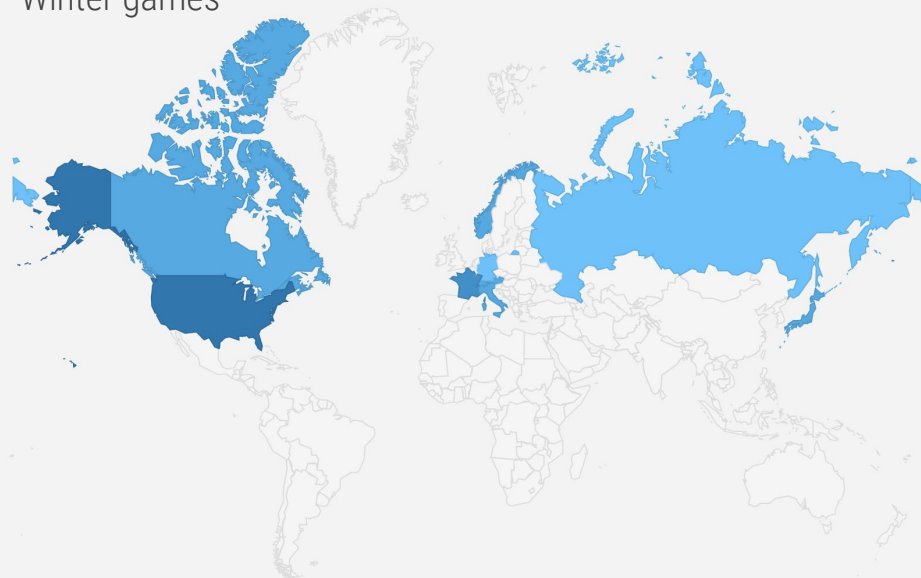
# Olympic Games hosts

Summer games



1 4

Winter games



1 4





# Home advantage

Country	Year	Previous Olympics	Host Olympics	
South Korea	1988	18	30	12
Spain	1992	4	23	19
United States	1996	107	89	-18
Australia	2000	39	55	16
Greece	2004	13	16	3
China	2008	55	85	30
United Kingdom	2012	42	60	18
Brazil	2016	17	18	1

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Country	Year	Previous Olympics	Host Olympics	Difference
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Home  
advantage

# Future work...

01

Find more correlations on why some countries perform better than others and try to predict the next big champion

Study outlier athletes; athletes who are successful in multiple Olympic events. What makes them special?

02

