

# Tennis Tournament Data Analysis

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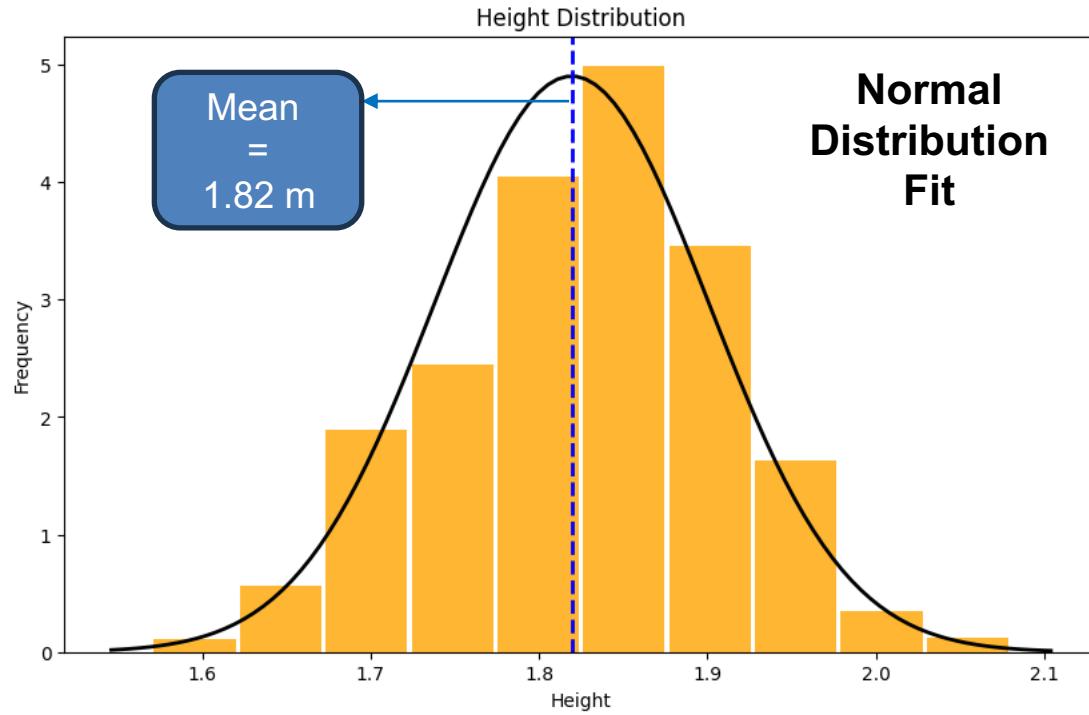
# 1. How many tennis players are included in the dataset?

Based on unique  
player ID

2352  
player



## 2. What is the Average height of players?





### 3. Which player has the highest number of wins?



Moyuka Uchijama





# 4. What is the longest match recorded in terms of duration?

 TENNIS > PAVLOU DIMITRA - HAGEMAN MADELIEF



Pavlou Dimitra 

L L L W L

 Hageman Madelief

L L W W L



**Match ID**



12300269

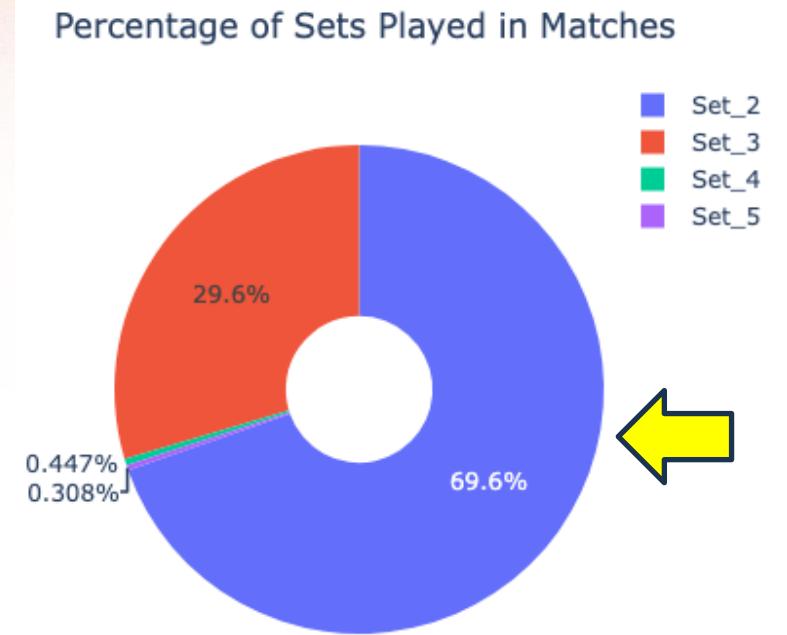
**Duration**



2 hour +  
17 min +  
31 sec



## 5. How many sets are typically played in a tennis match?





## 6. Which country has produced the most successful tennis players?

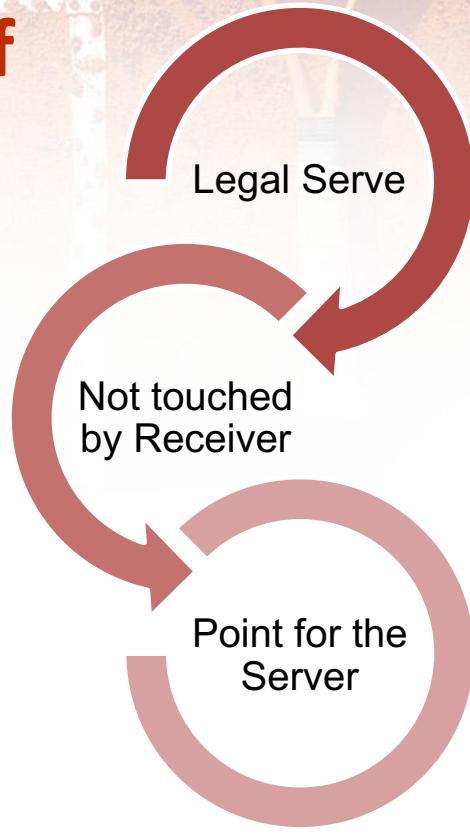




## 7. What is the average number of aces per match?



AVG  
=  
1.46



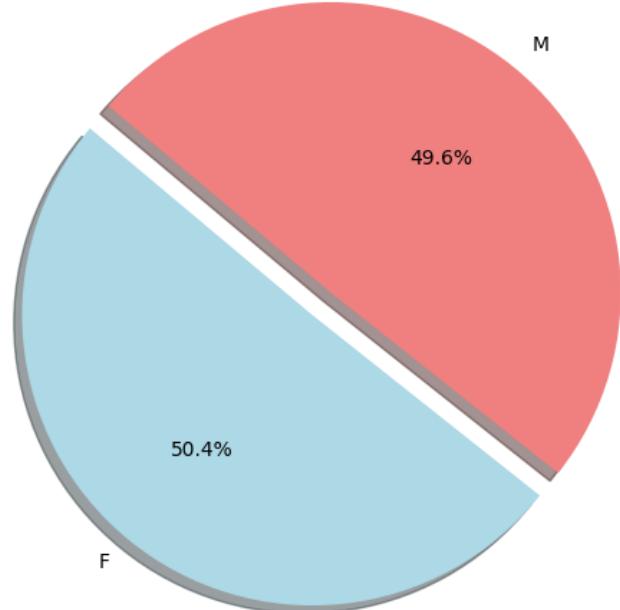


## 8. Is there a difference in the number of double faults based on gender?

- Fail to serve the ball
- Twice in a row

Double Fault

Comparison of Double Faults between Male and Female





# 9. Which player has won the most tournaments in a single month?



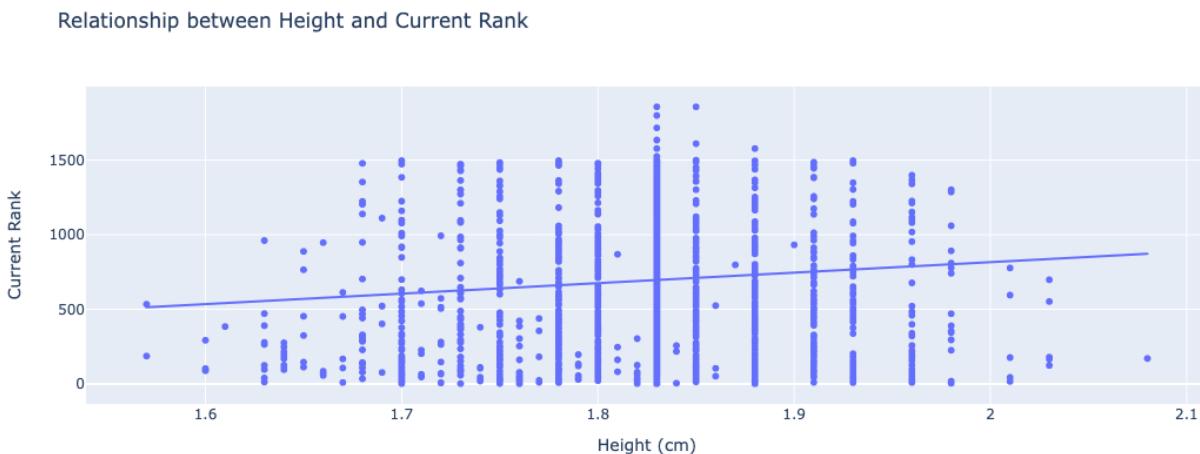
Miho Kuramochi





# 10. Is there a correlation between a player's height and their ranking?

Correlation : 0.09





## 11. What is the average duration of matches?

Timer

48:02

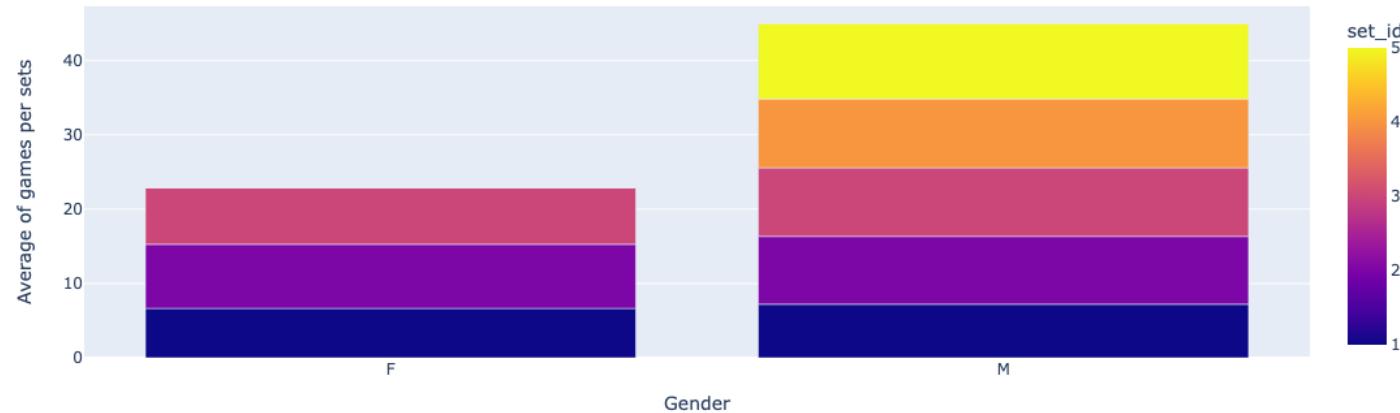




## 12. What is the average number of games per set in men's matches compared to women's matches?

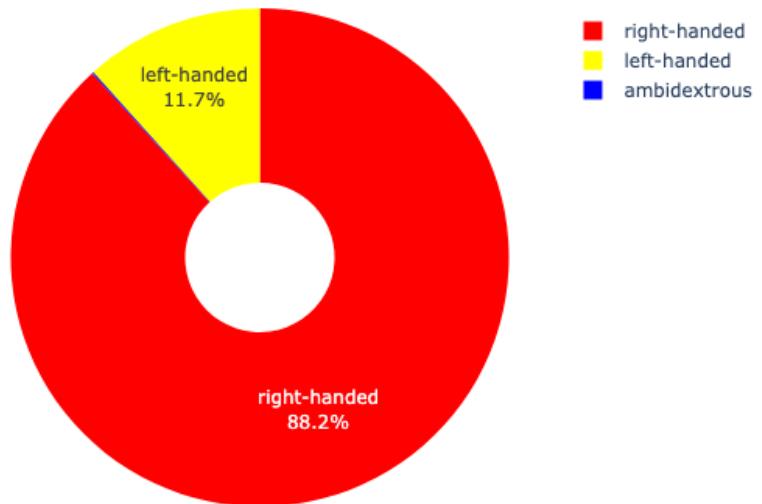
Set_id	1.0	2.0	3.0	4.0	5.0
Female	6.65	8.62	7.63	0	0
Male	7.21	9.13	9.23	9.28	10.1

Average Number of games per set Between Male vs Female



# 13. What is the distribution of left-handed vs right-handed players?

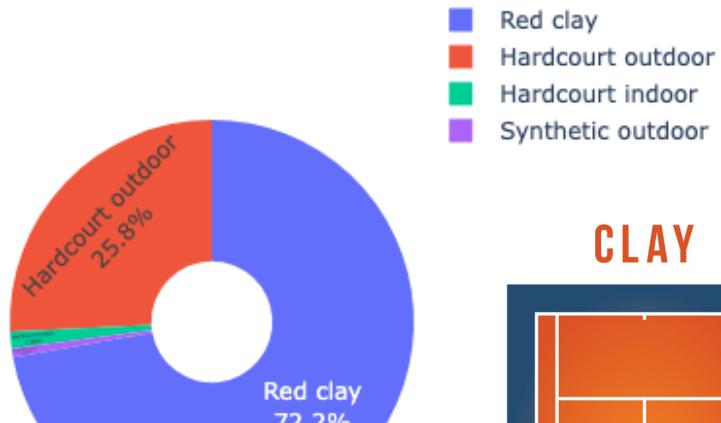
Distribution of Left-handed vs Right-handed Players



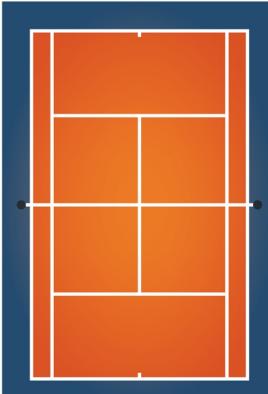


# 14. What is the most common type of surface used in tournaments?

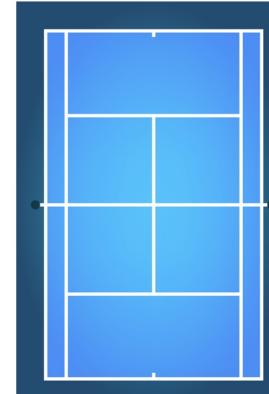
Tennis Ground Types distribution



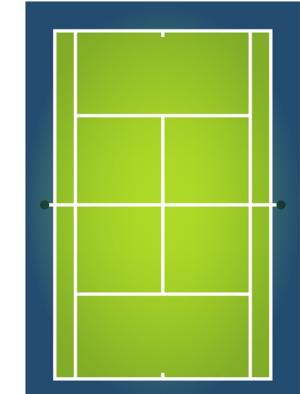
CLAY



HARD



GRASS





## 15. How many distinct countries are represented in the dataset?



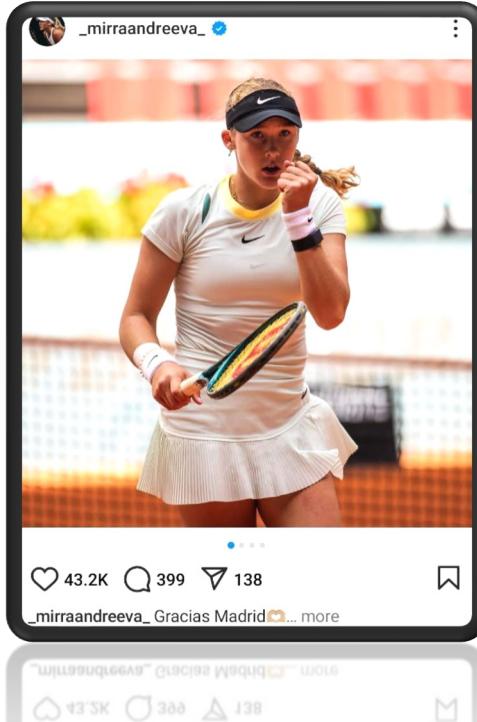
100  
country



# 16. Which player has the highest winning percentage against top 10 ranked opponents?

	Full name	Current rank
1	Djokovic, Novak	1.0
2	Swiatek, Iga	1.0
3	Sabalenka, Aryna	2.0
4	Sinner, Jannik	2.0
5	Alcaraz, Carlos	3.0
6	Gauff, Cori	3.0
7	Rybakina, Elena	4.0
8	Zverev, Alexander	4.0
9	Medvedev, Daniil	4.0
10	Rublev, Andrey	6.0

Mirra Andreeva

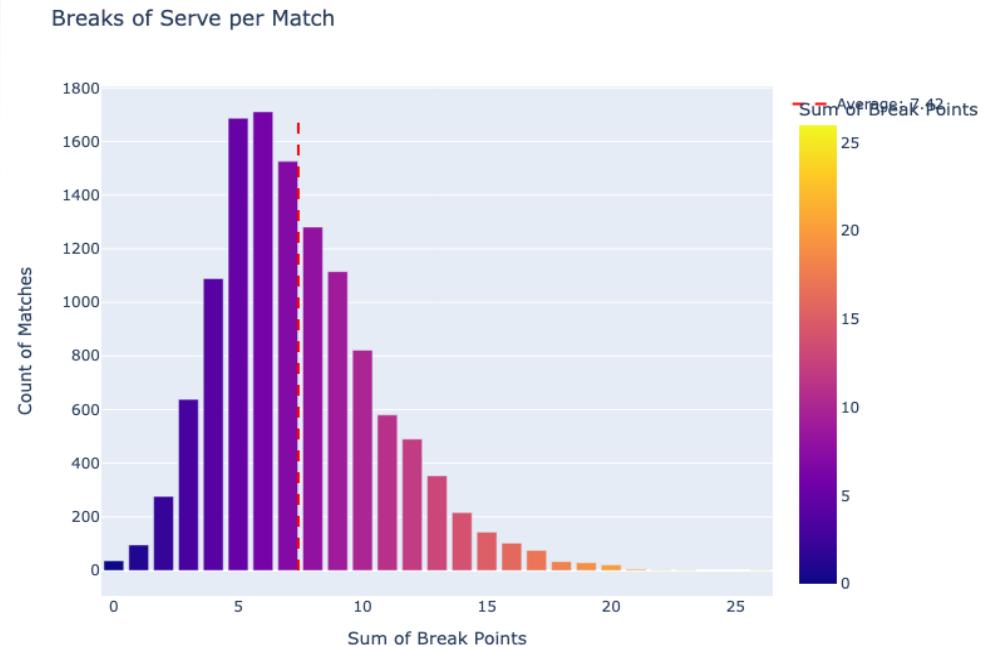


38



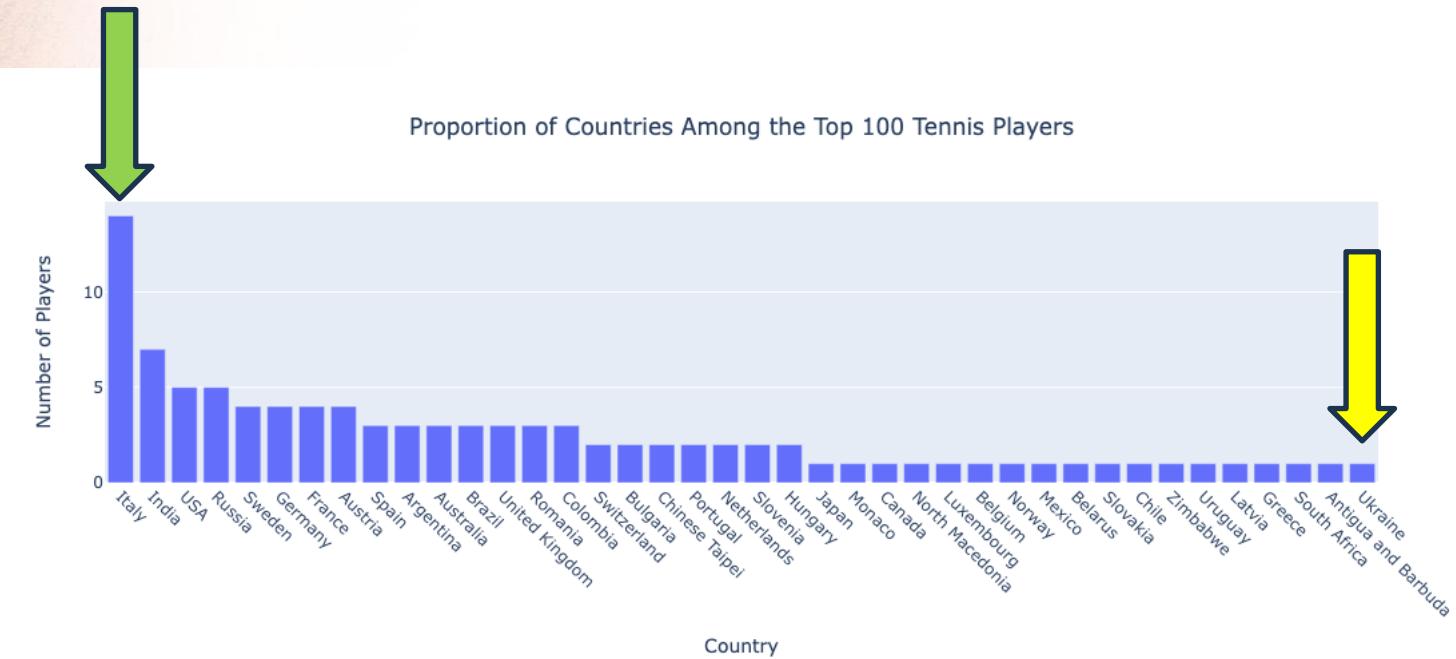
## 17. What is the average number of breaks of serve per match?

Mean = 7.42

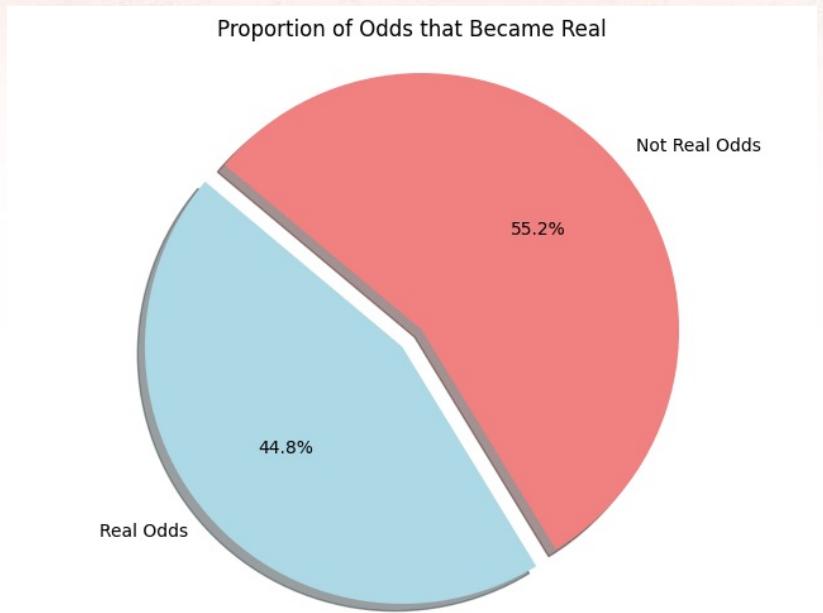




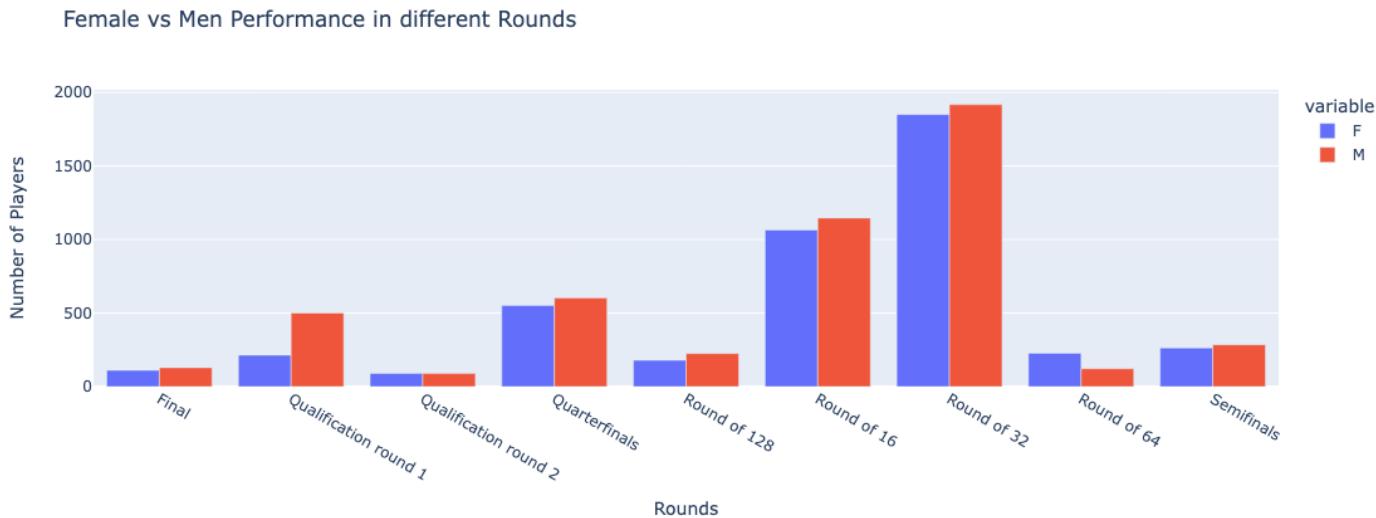
# 18. What is the proportion of countries represented by the top 100 tennis players?



## 19. What proportion of the predictions became real ?



# 20. Comparison the performance of players in different rounds by gender

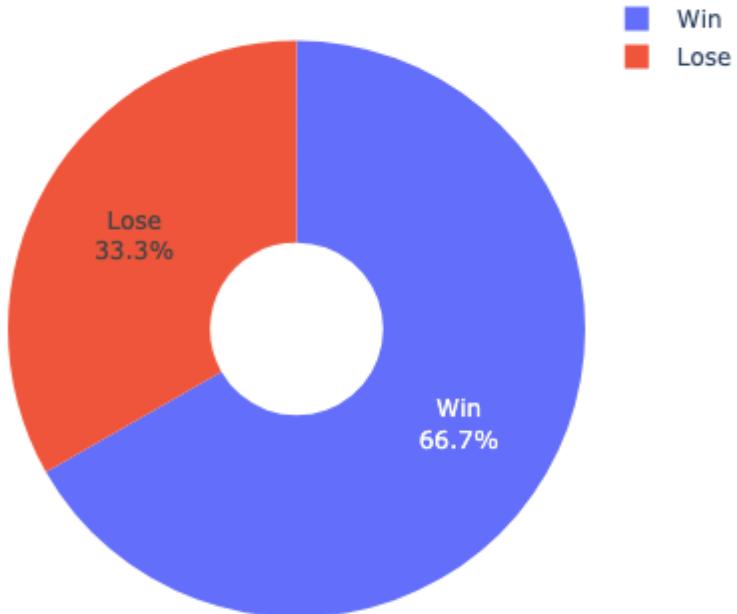




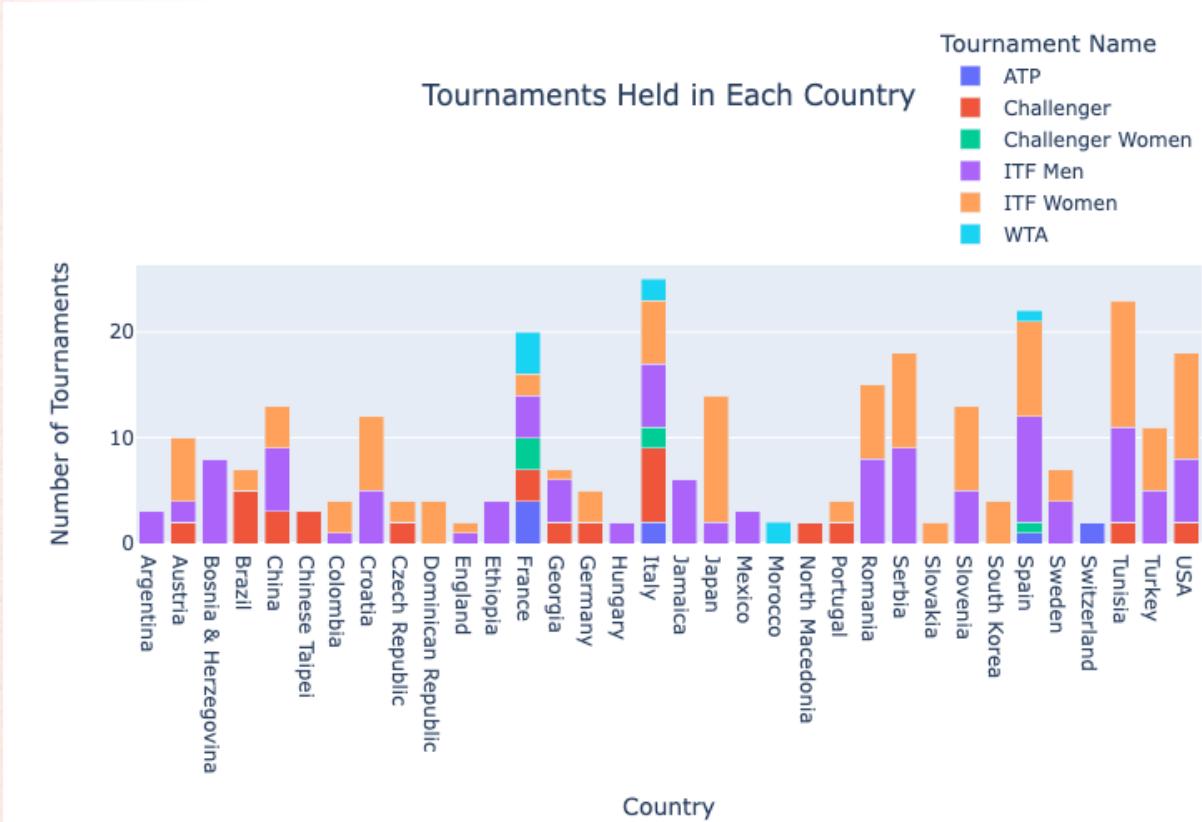
## 21. How often does the player win the match after losing the first point?



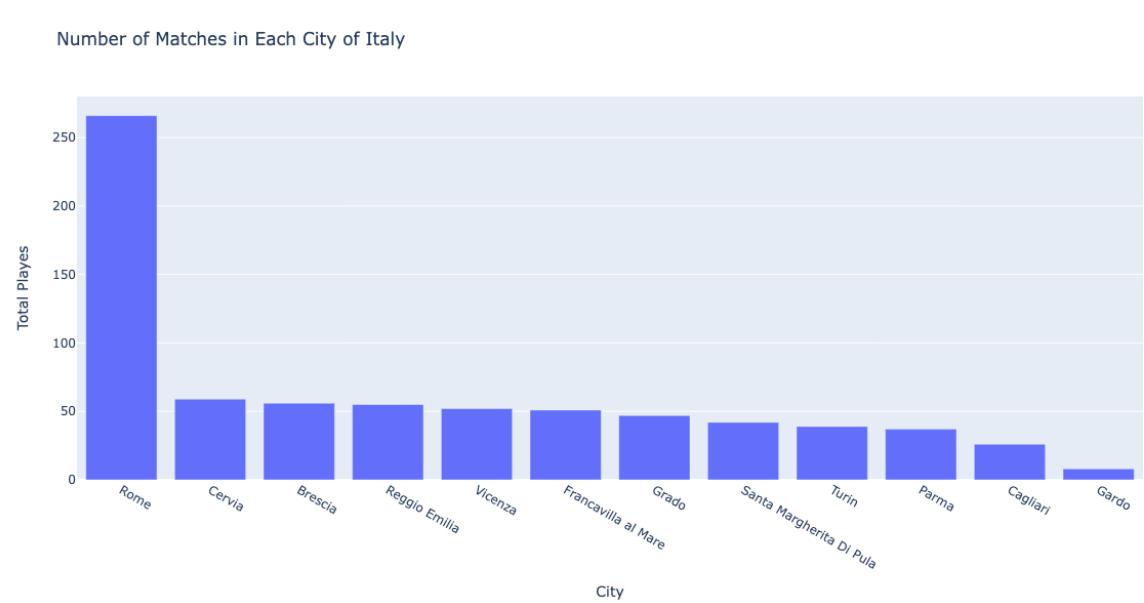
Comeback after loosing first point



## 22. What kind of Tournaments have been held in each country?



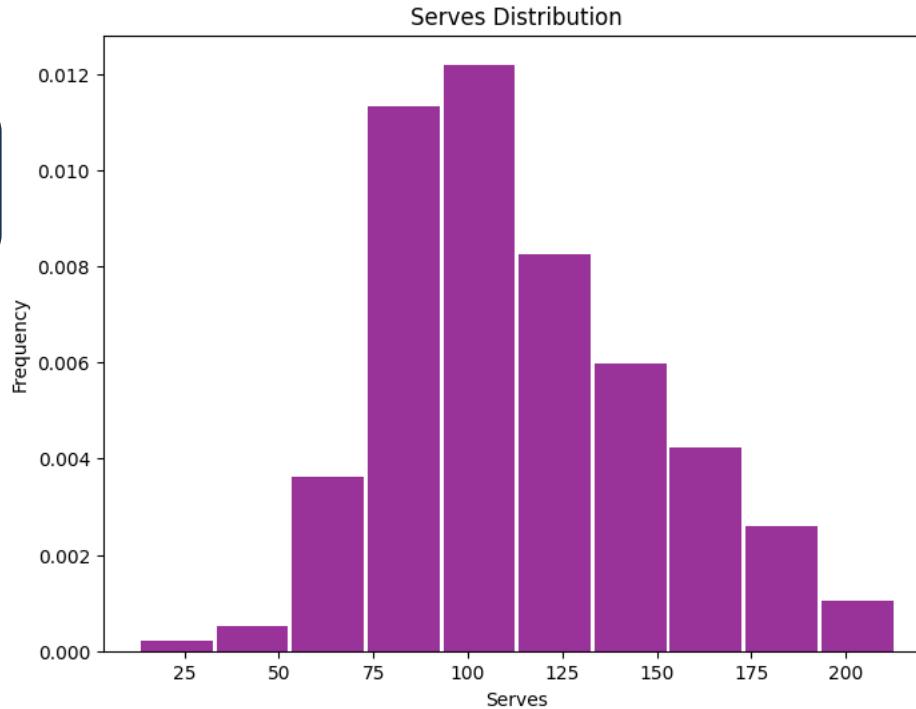
## 23. In which cities of the most popular host country are most tournaments held?





## 24. What is the Average number of Serves per match?

Average  
= 113.53



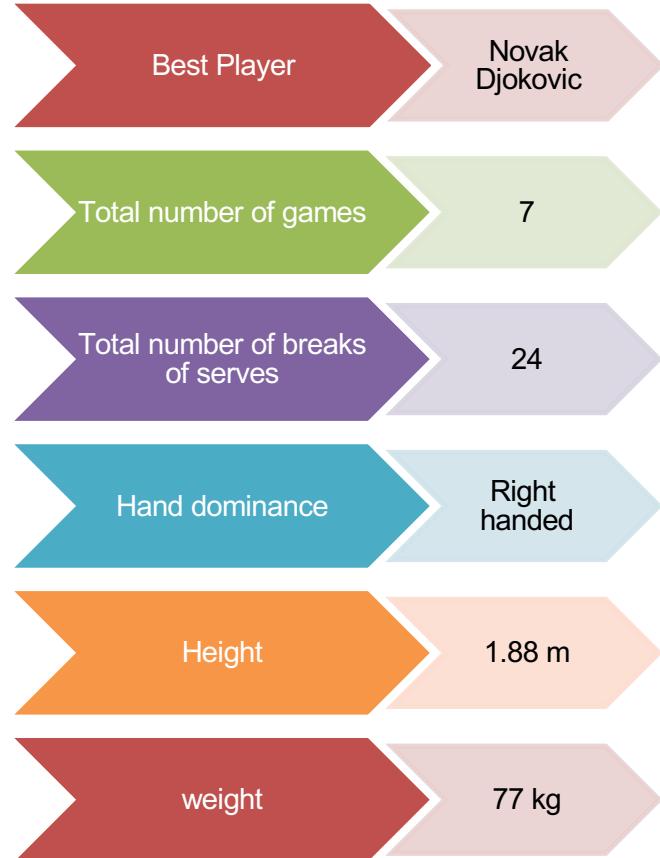


## 25. Which tennis court holds the record for the most aces?

Red Clay Court



## 26. Performance of Top Ranked Player



# GitHub Address

-  [https://github.com/Mahlagha1994/Tennis\\_Game.git](https://github.com/Mahlagha1994/Tennis_Game.git)
-  <https://github.com/Mohsenmohebbi1993/TennisGame.git>
-  [https://github.com/SobhanSalarian/TennisGame\\_Repository.git](https://github.com/SobhanSalarian/TennisGame_Repository.git)
-  <https://github.com/MoloudAram/>

