

Olympic Data

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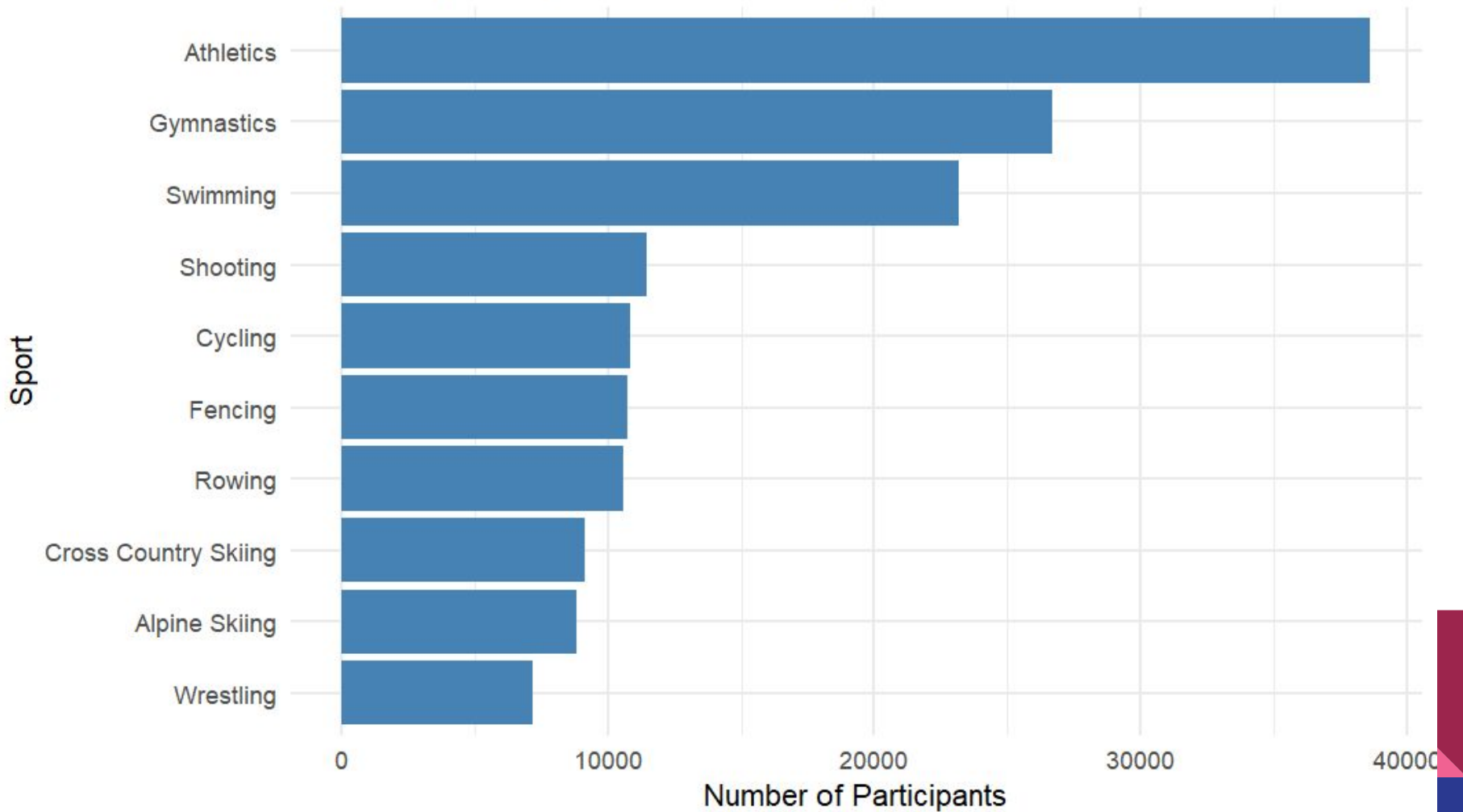


Introduction

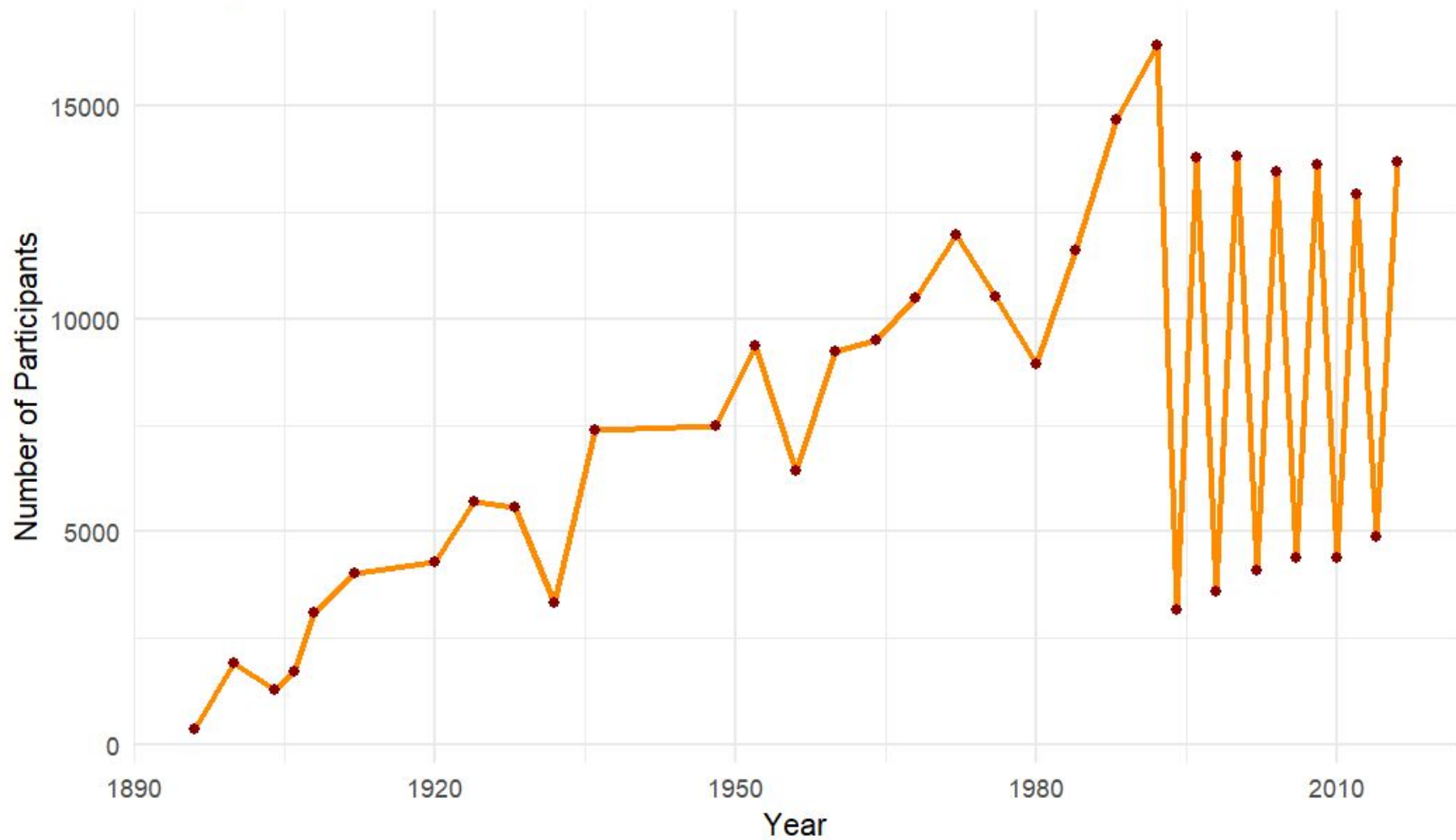
- Olympic data ← TidyTuesday
- Examined Sports:
 - Shooting, Rowing, Football, Swimming, Alpine Skiing, Cross Country Skiing, Figure Skating, Speed Skating
- Examined Variables:
 - Participation
 - Height, Weight, Age, Gender
 - Country
 - Medals



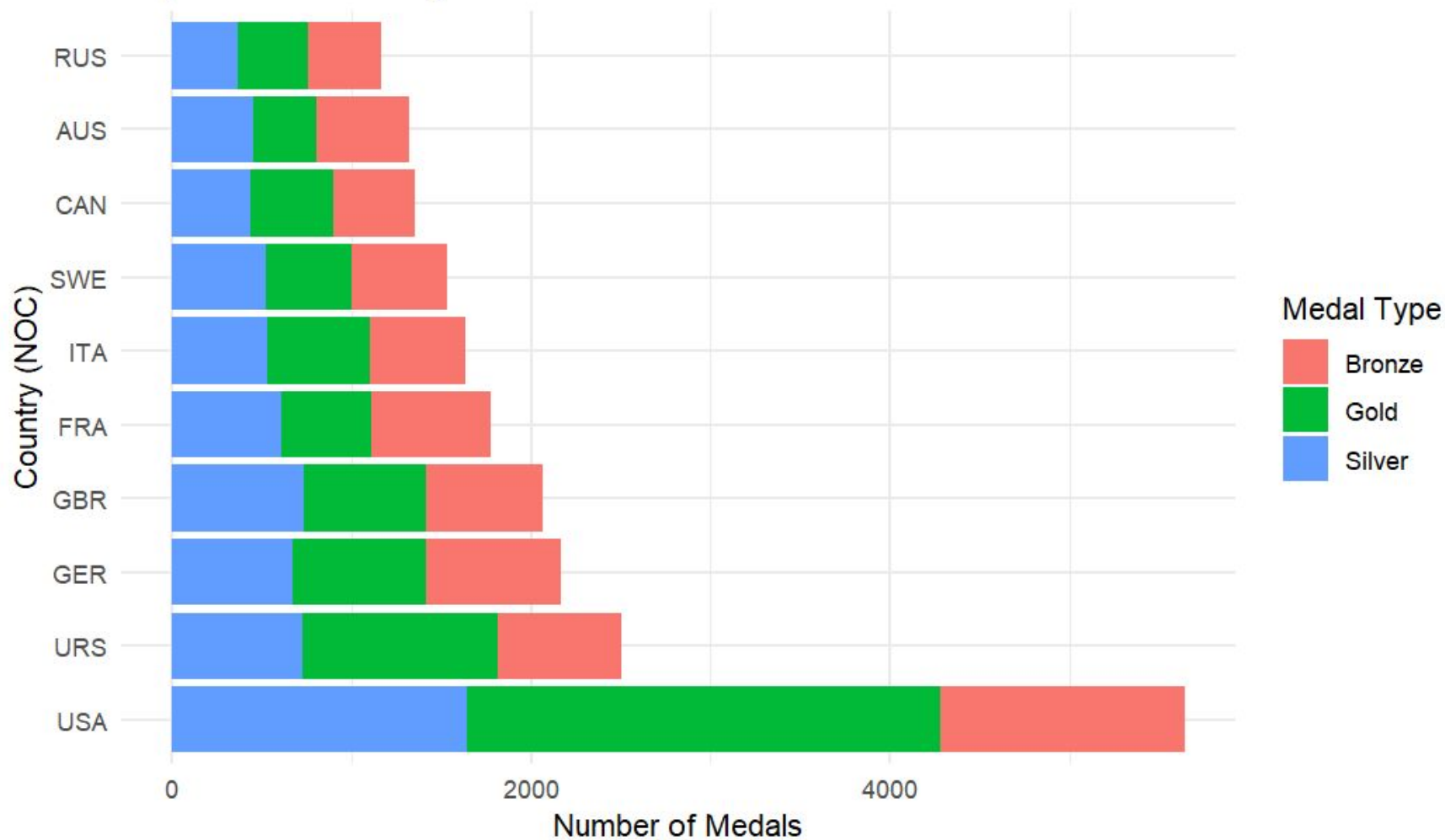
Top 10 Sports by Number of Participants



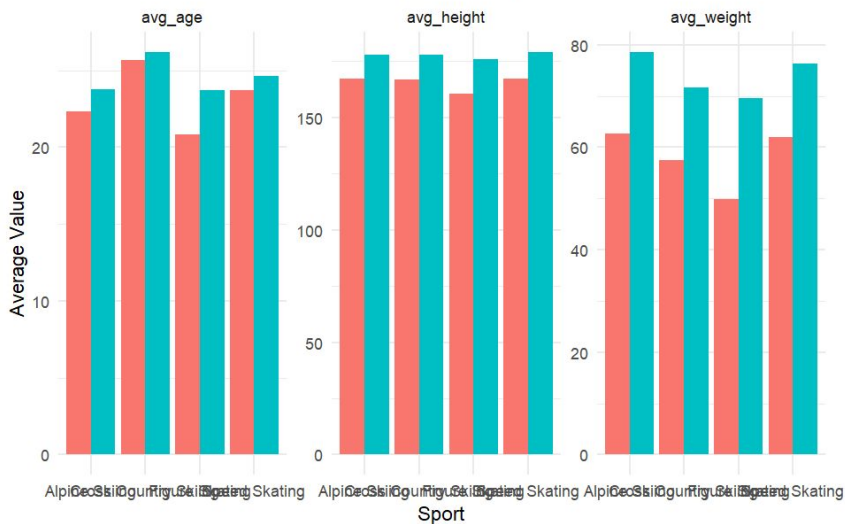
Participation Trends Over Time



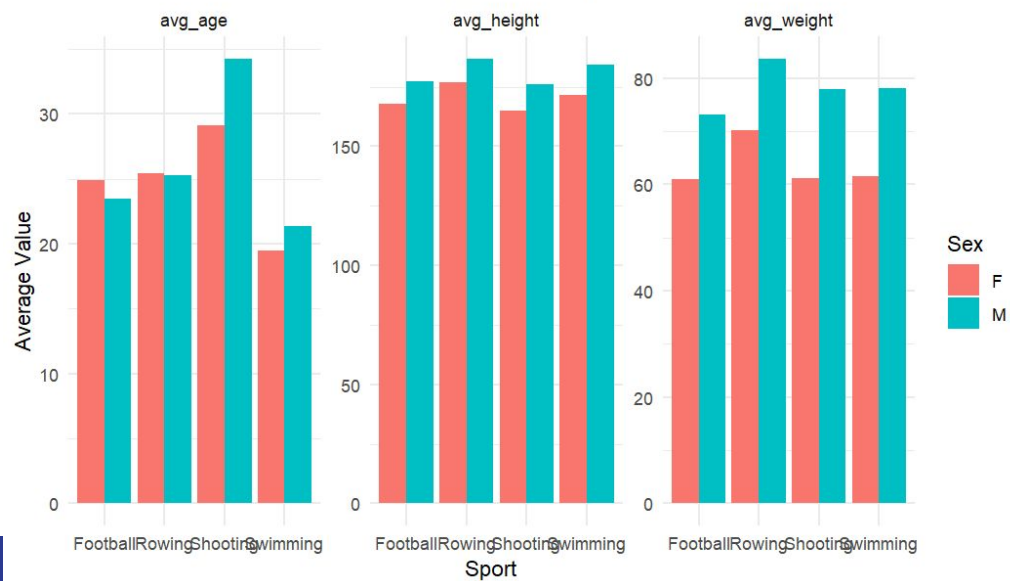
Top 10 Countries by Medals Won



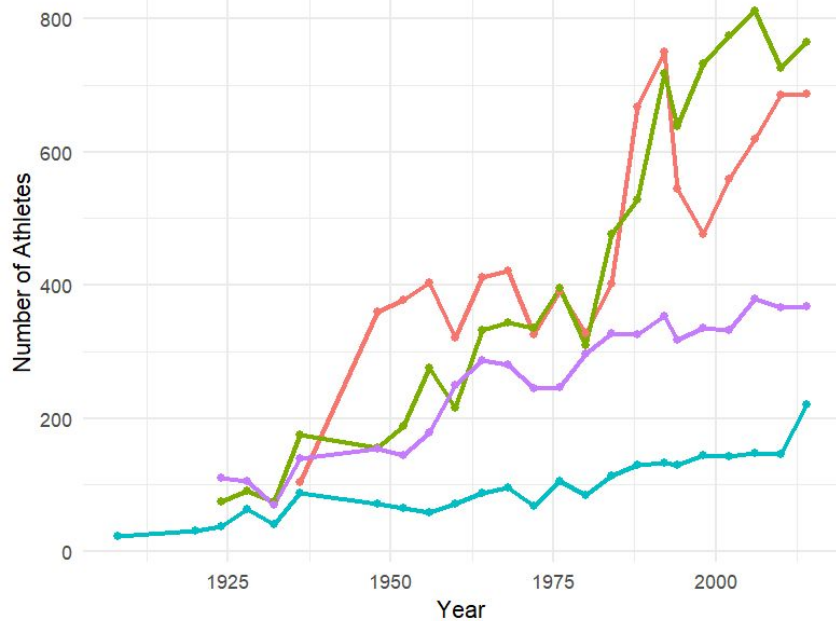
Trends in Athlete Characteristics by Winter Sport and Sex



Trends in Athlete Characteristics by Summer Sport and Sex



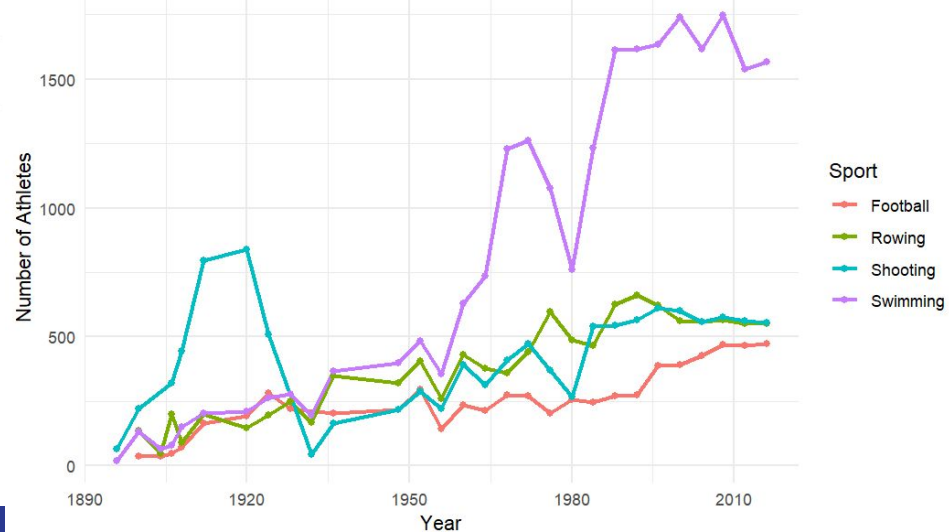
Participation Over the Years in Winter Sports



Sport

- Alpine Skiing
- Cross Country Skiing
- Figure Skating
- Speed Skating

Participation Over the Years in Summer Sports

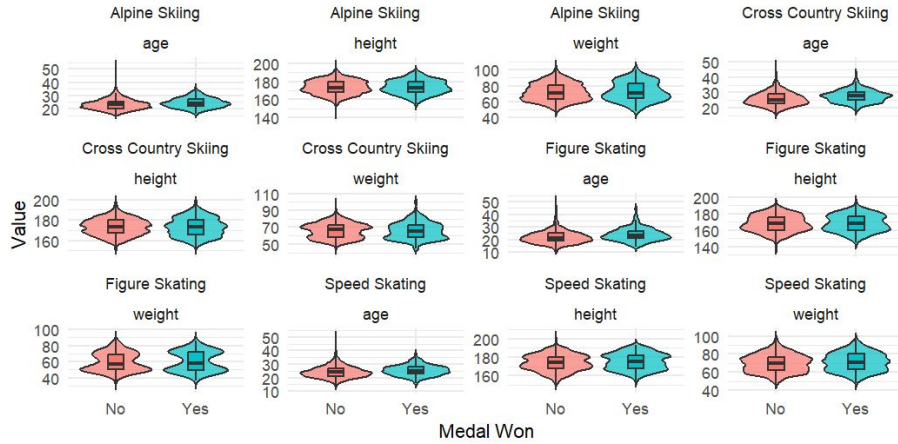


Sport

- Football
- Rowing
- Shooting
- Swimming

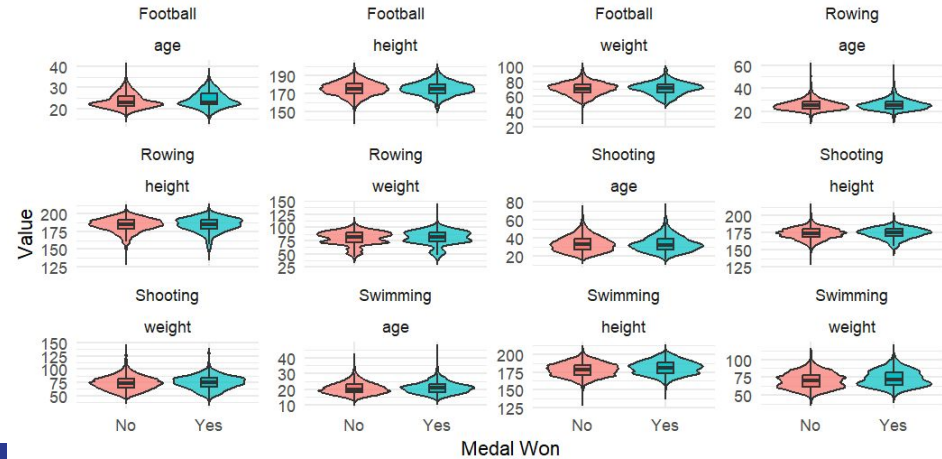
Comparison of Physical Attributes by Medal Status on Winter Sport

Medal Won ■ No ■ Yes

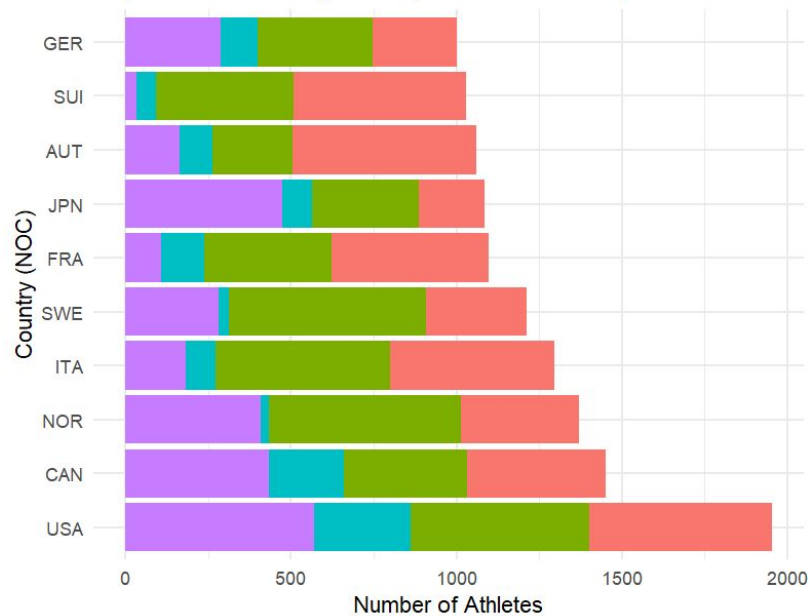


Comparison of Physical Attributes by Medal Status on Summer Sport

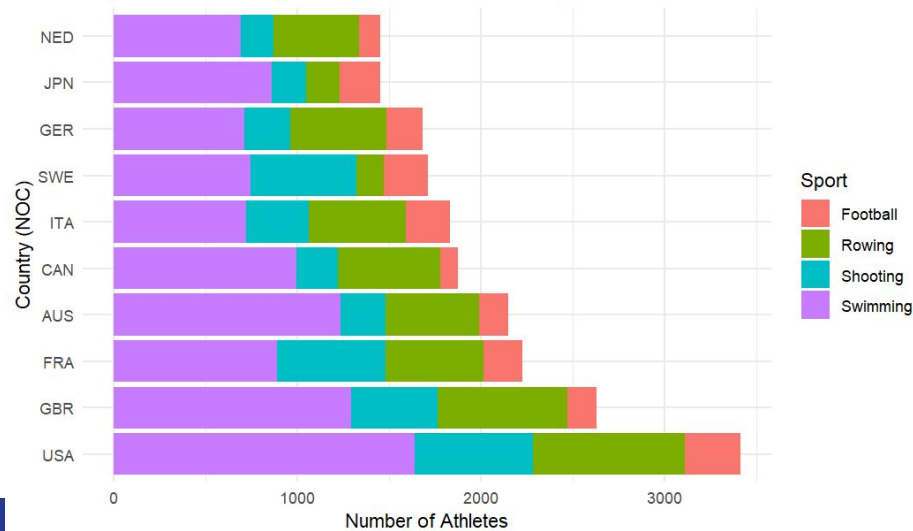
Medal Won ■ No ■ Yes



Top 10 Countries by Participation in Winter Sports

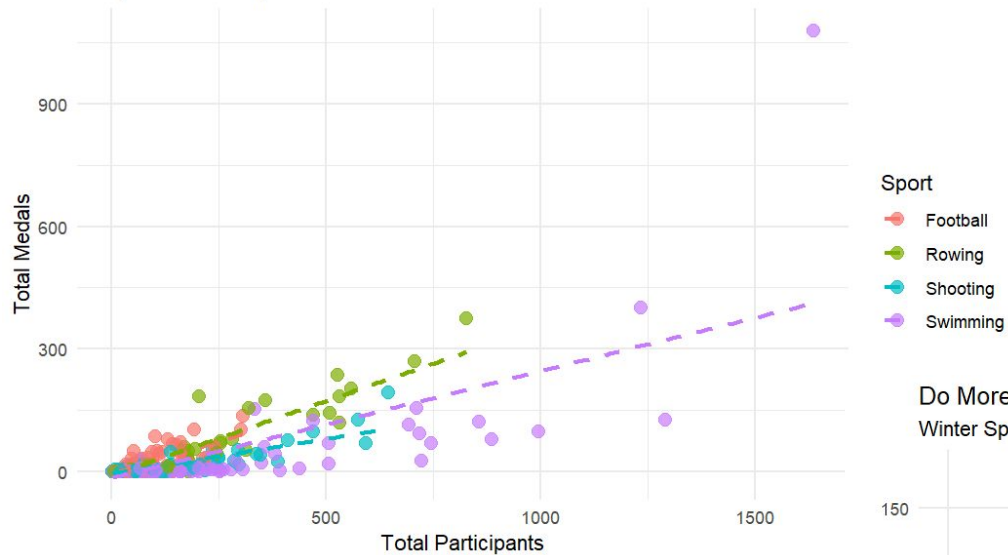


Top 10 Countries by Participation in Summer Sports



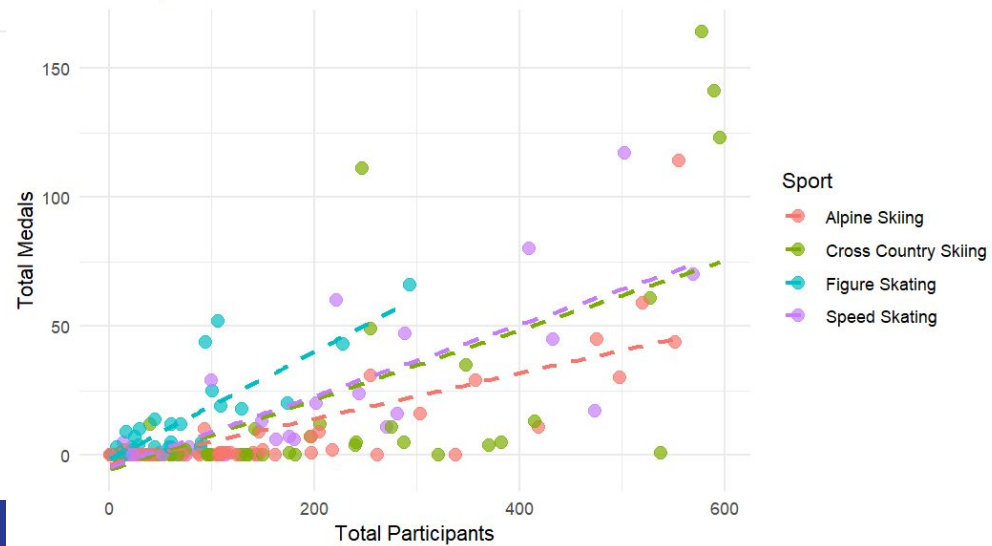
Do More Participants Per Country Equal More Medals?

Analysis Summer Sport



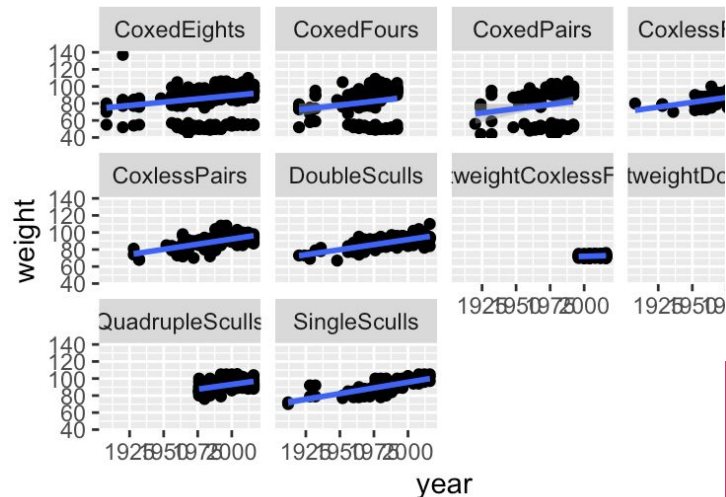
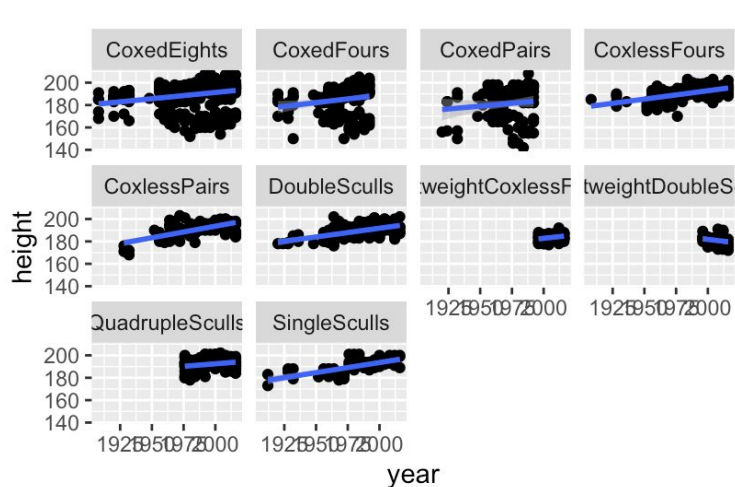
Do More Participants Per Country Equal More Medals?

Winter Sport



Effect from Event

There exist large differences between events in some sports, for example, rowing, which includes restrictions to the weight of the athletes. For rowing, higher weight means huge dominance in the match. The age of shooting athletes is also affected by events a lot, where younger athletes will have obvious dominance in events that requires running while they don't have this dominance in other.



Height and weight vs year for male rowing athletes

Conclusion

Summer Sports:

- **Swimming:** Highest participation, consistent growth.
- **USA:** Leads in athletes and medals.
- **Rowing & Shooting:** Steady growth.
- **Football:** Regionally concentrated popularity.

Winter Sports:

- **Key Sports:** Alpine & Cross-Country Skiing.
- **Top Nations:** Norway, Canada, USA (geographic advantage).
- **Trends:** Slow but steady global growth.

Overall:

- **Participation:** Summer > Winter.
- **Success Factors:** Investment, infrastructure, athlete development.

