Group 3 Project Proposal

**Group Members**

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**Topic**

The oldest sport is running. Running is something that all humans can do, and the fastest compete at a level far above average. Throughout the history of the sport people have continued to improve and perceived barriers have been surpassed. Previously a 10 second 100m, a 4 minute mile, and a 2 hour marathon were all considered impossible. Worldathletics.org compiles the top performances by athletes into one place. Our analysis will show what trends exist in this data.

Our emphasis will be to see how the results have changed and progresses throughout the years in this database. We also hope to better understand how the results from a given year are distributed.

**Data sources**

The data that will be retrieved from the World Athletics Website. The following link shows the 2019 results.

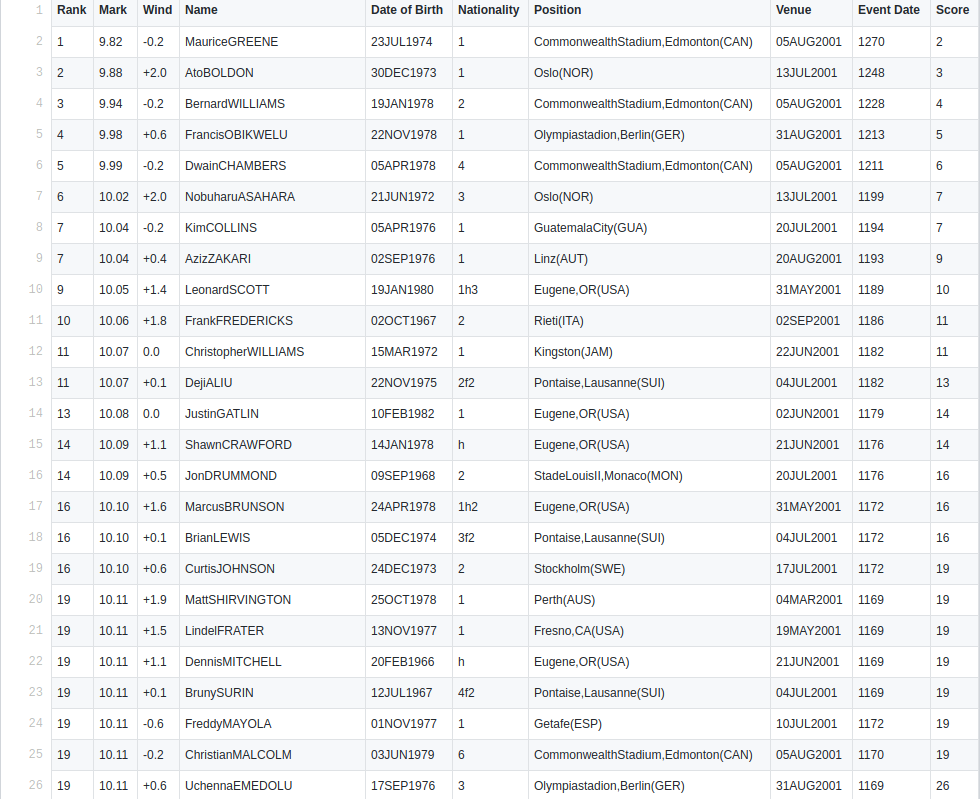
<https://www.worldathletics.org/records/toplists/sprints/100-metres/outdoor/men/senior/2019?regionType=world&timing=electronic&windReading=regular&page=1&bestResultsOnly=true>

**Data description**

**Research questions**

1. How has the best time of the Men’s 100m dash changed? What about the mean of the top 50 results?
2. How has the best time of the Men’s Marathon changed? What about the mean of the top 50 results?
3. How do the distributions of the Men’s 100m dash and marathon compare?
4. Given a specific event, is the distribution curve for 2018 much different from the earliest year in the data?
5. Does the data “peak” around Olympic years or is the ineffectual to the data?
6. When in a year does the top performance happen? Is this completely random?

**Data**



The data that will be needed for the Proposal will first have to be properly parsed for each event before it can be used. The image above shows partially parsed data.