Going the Distance

The Rise and Dominance of Endurance Athletes From the Great Rift Valley

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Historical Context

Marathons as events

From myth to main event

Originating from a Greek myth in which Pheidippides ran from Athens to Marathon, the marathon has been a mainstay in the modern Olympic Games, in which time we've seen the times drastically improve by nearly a full hour.

Political

Bans and Boycotts

Political statements, terror threats, and acts of defiance have long been a part of the Olympic Games

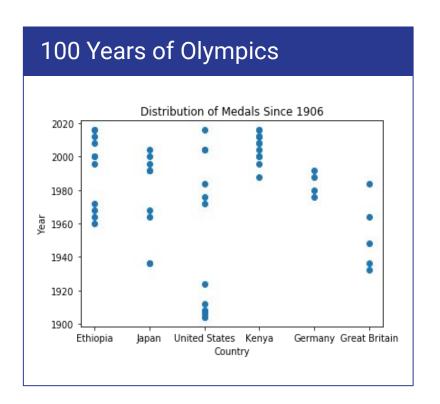
- Thus, the participating countries vary due to the political climate
- Is GDP related to performance?

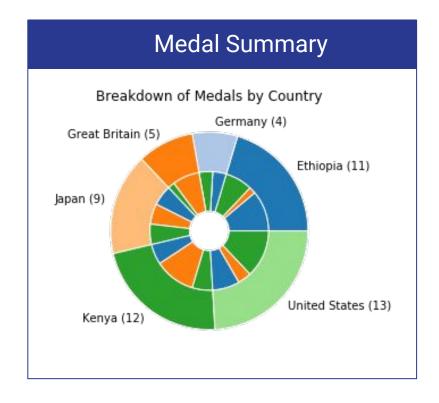
Geography

"Ciao firenj!"

Are there factors beyond years spent training and natural ability that impact success in marathon and distance running? Is geography more indicative than genetics?

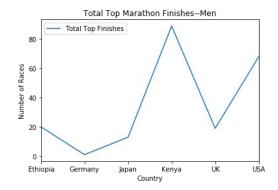
Historical Perspective:

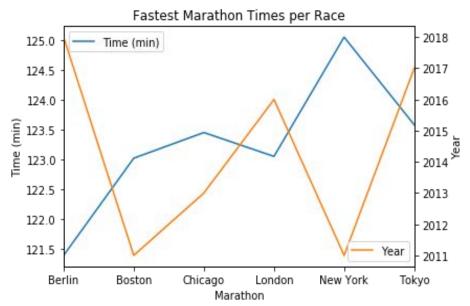


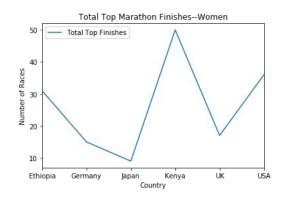


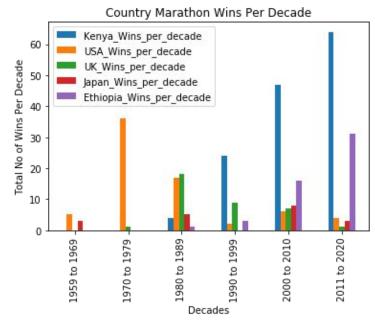
Abbot World Marathon Majors

- Berlin
- Boston
- Chicago
- London
- New York
- Tokyo







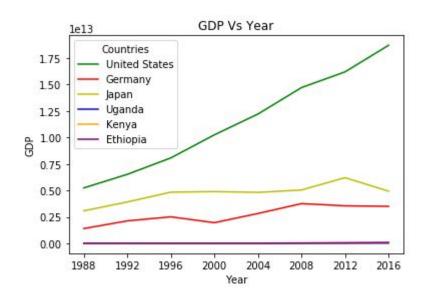


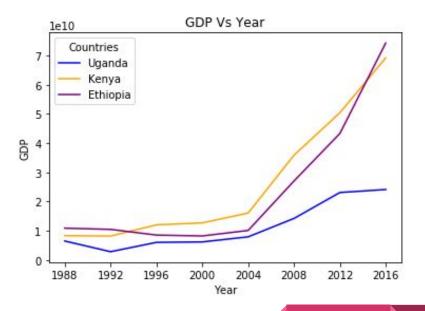
Money Matters?

In fact one athlete told me that the motivation to run your way out of poverty is so strong, that if Kenya were to become a rich country he believed it would stop producing such fast runners."

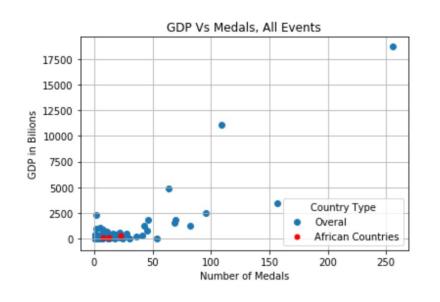
~Claudia Hammond

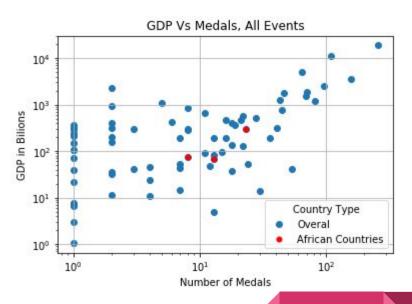
Examine of GDP VS. Performance



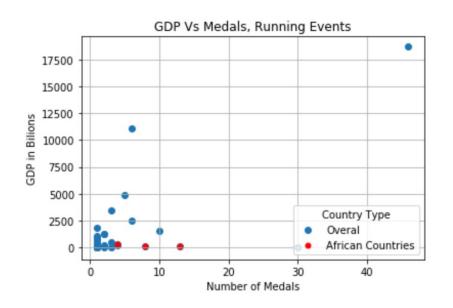


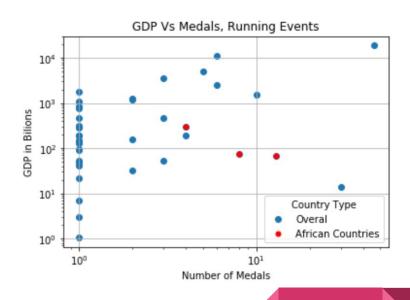
Examine of GDP compared to number of medals





Examine of GDP compared to running medals

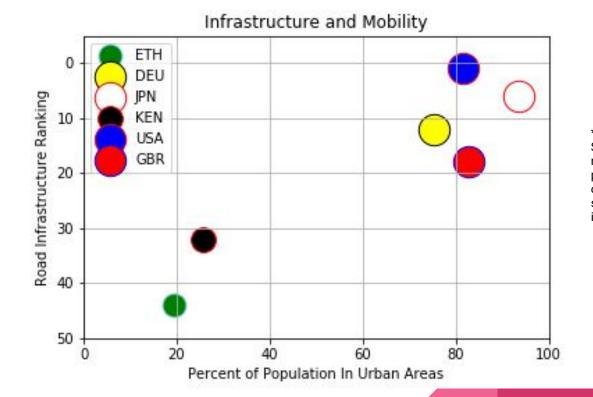




Development Visualized

Unimproved drinking water - use any of the following sources: unprotected spring; cart with small tank or drum; tanker truck; surface water, which includes rivers, dams, lakes, ponds, streams, canals or irrigation channels; or bottled water.

~CIA World Factbook



*Note: Size of circle represents percentage of water sources improved

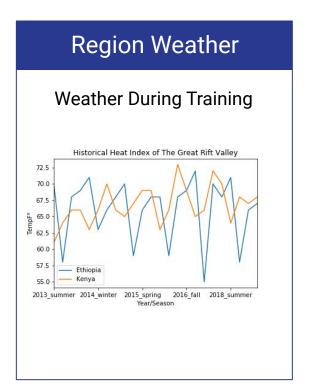
Environmental Advantages

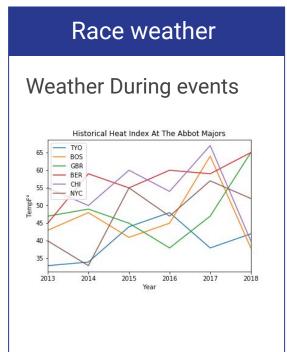
"The world's best runners come from three mountainous districts near the Rift Valley in Africa, according to the BBC: Nandi in Kenya and Arsi and Shewa in Ethiopia.

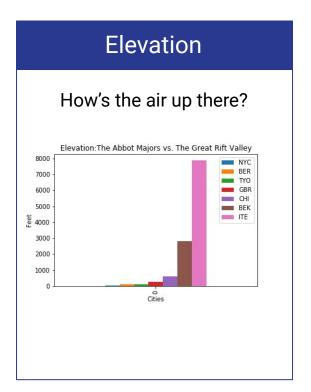
Out of 149 male marathon performances faster than 2 hour and 10 minutes in 2013, 80 were by Kenyans, 47 by Ethiopians, and eight by Eritreans and Ugandans, who are from the same region and of similar ethnicity, as Runner's World Reports."

~Shekhtman

Weather and Environment







Conclusion

Citation

Steele, M. (2013, November 1). How One Kenyan Tribe Produces the World's Best Runners. https://www.npr.org/sections/parallels/2013/11/01/241895965/how-one-kenyan-tribe-produces-the-worlds-best-runners

Roster M. (2018, September 20) Literacy. https://ourworldindata.org/literacy#historical-perspective

The World Bank (2019) https://data.worldbank.org/indicator/ny.gdp.mktp.cd

Broughton, G. (2019, November) World Marathon Majors https://www.kaggle.com/gjbroughton/world-marathon-majors/discussion

Griffin, R (2018) 120 Years of Olympic history:athletes and results https://www.kaggle.com/heesoo37/120-years-of-olympic-history-athletes-and-results

Onywe, Vincent O. (2007) Demographic Characteristics of elite Kenyan endurance runners

Hattenstone, Simon (2012) The Ethiopian town that's home to the world's greatest runners

Shekhtman, Lonnie (2016) Marathon: Why do the Ethiopians keep winning?

Hammond, Claudia (2012) Kenya's Rift Valley, where everyone runs

Crawley, Micheal (2018) Why Ethiopia's running success is more than poverty and altitude

CIA World Factbook: https://www.cia.gov/library/publications/the-world-factbook/fields/361.html#BG

World Weather Online: https://www.worldweatheronline.com/developer/api/docs/historical-weather-api.aspx