

# CSC 371 - Final Project

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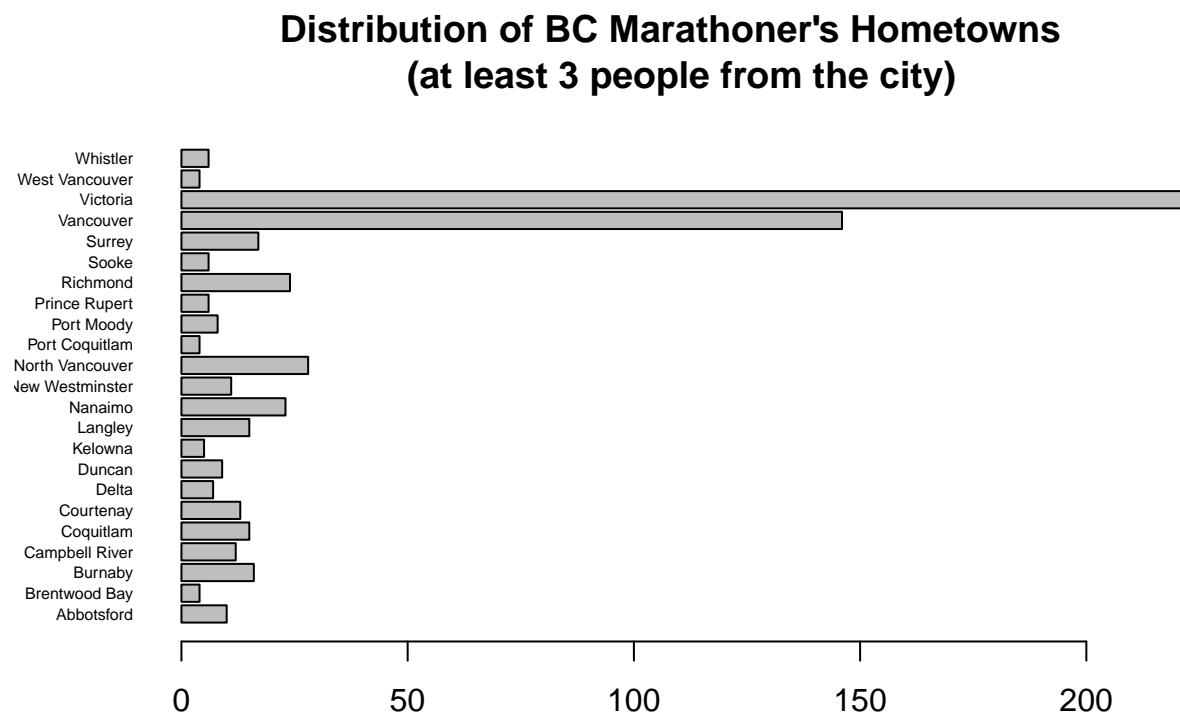
This project is to illustrate data visualization techniques used on the Victoria Marathon 2016 dataset ([https://connex.csc.uvic.ca/access/content/group/788529df-e04c-4ee7-a7e7-886b19555ec0/misc/victoria\\_marathon\\_2016.sql](https://connex.csc.uvic.ca/access/content/group/788529df-e04c-4ee7-a7e7-886b19555ec0/misc/victoria_marathon_2016.sql))

Sqlite3 was used to convert the victoria\_marathon\_2016.sql into a .csv file which was then analyzed using R.

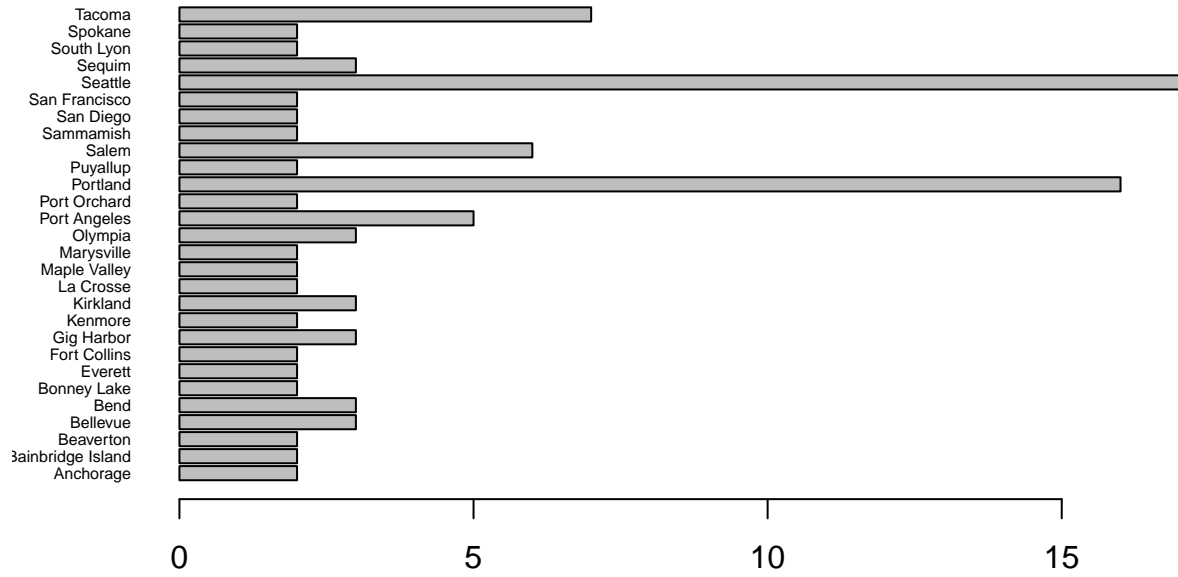
Three particular aspects of the dataset was chosen to be analyzed

- Distribution of Marathoners by Hometown
- Distribution of Marathoners by Division
- Distribution of Marathoner Finish Times filtered by Division and Hometown

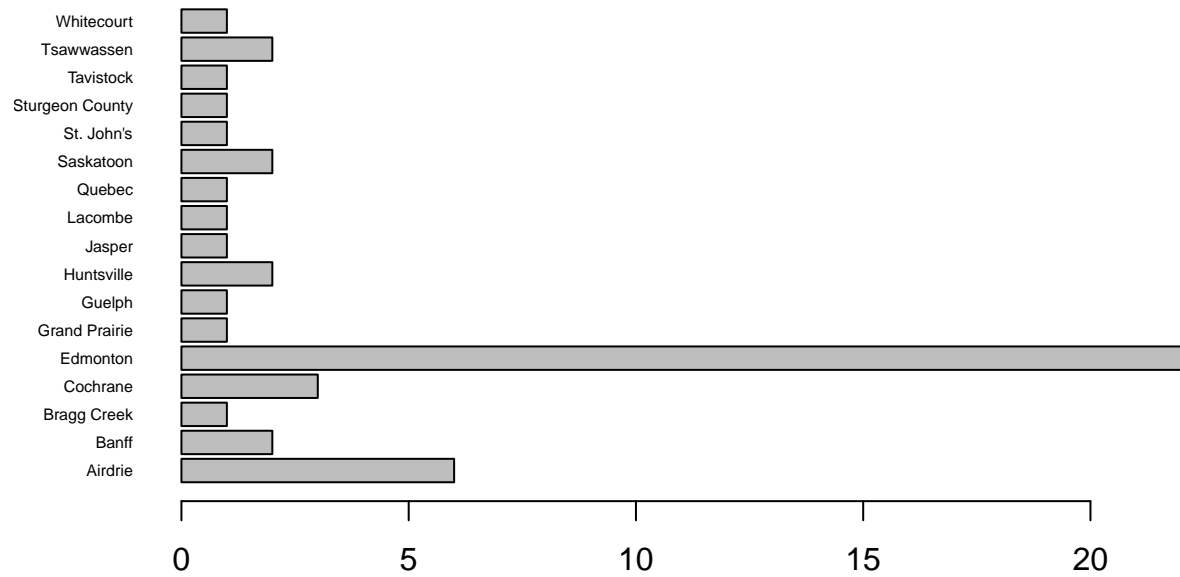
## Plots of Distribution of Marathoner's Home Town



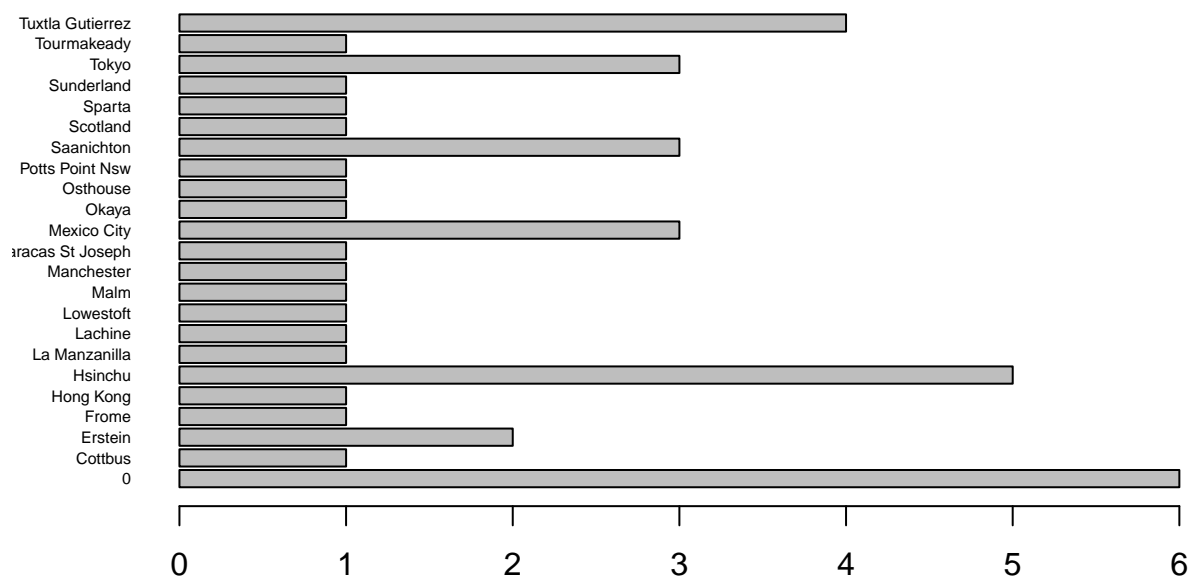
## Distribution of US Marathoner's Hometowns (at least 2 people from the city)



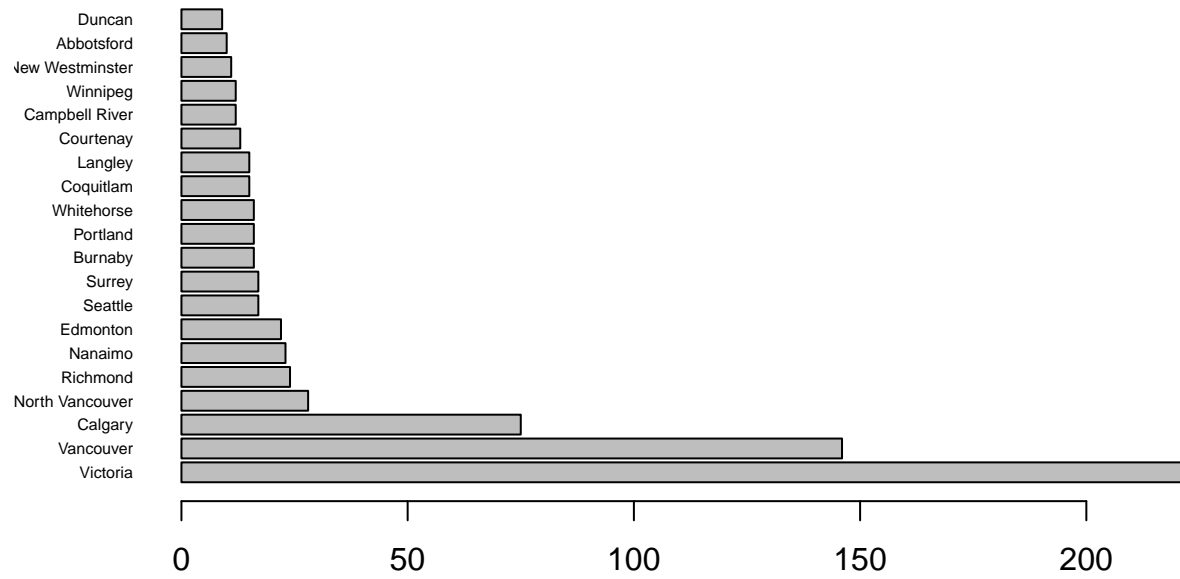
## Distribution of Canadian Marathoner's Hometowns from outside of B (at least 2 people from the city)



## Distribution Marathoner's Hometown outside of Canada/US

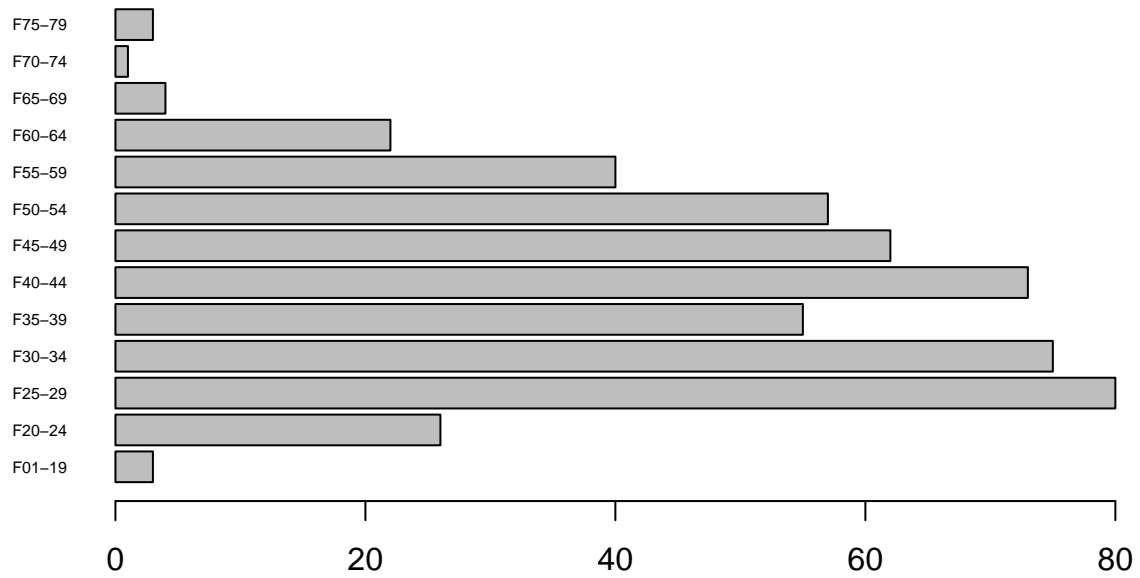


## Top 20 City Representation by Marathoners

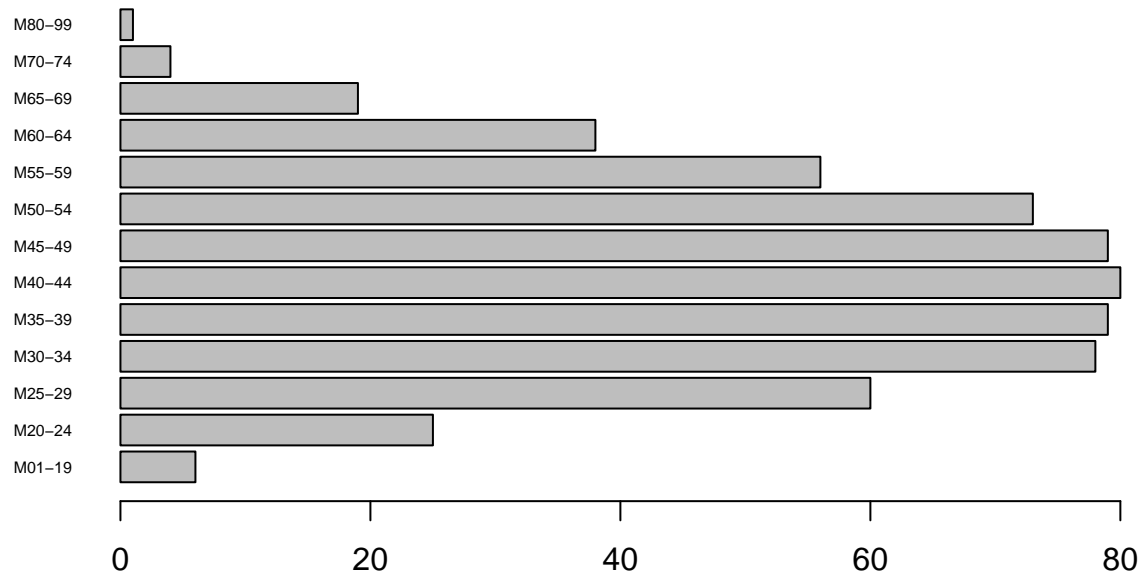


## Age Distribution by Gender

**Distribution of Age of Female Marathoners**

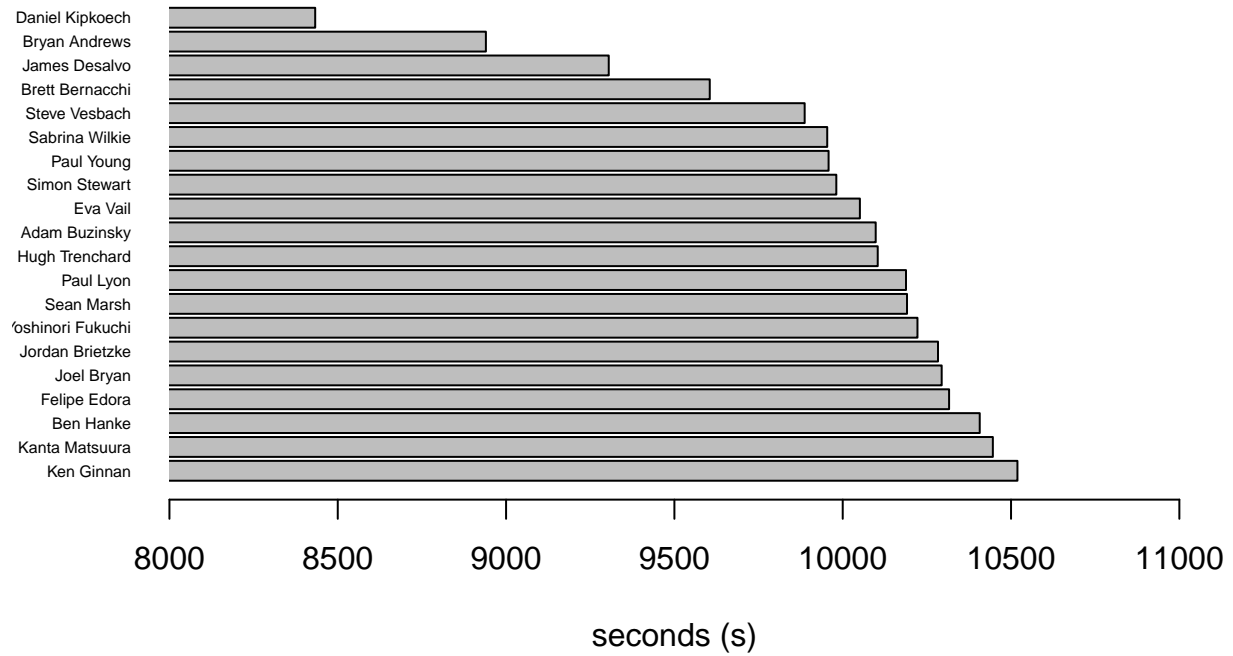


## Distribution of Age of Male Marathoners



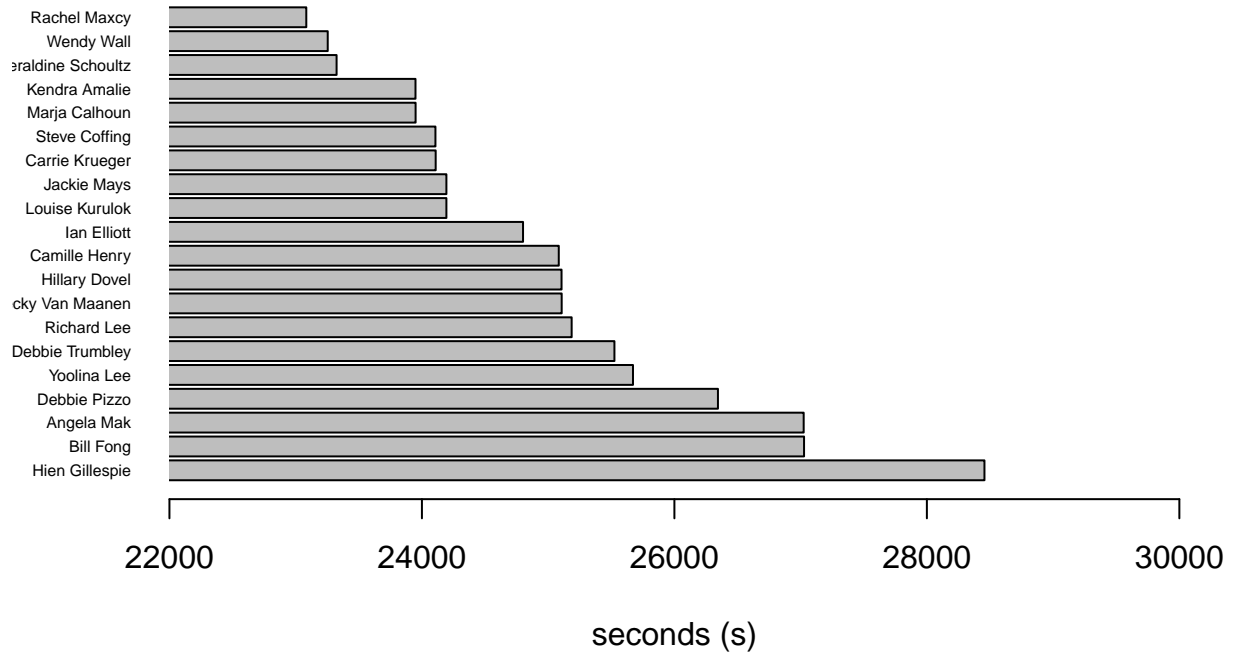
## Distribution of Finish Times

### Top 20 Marathoner Finish Times

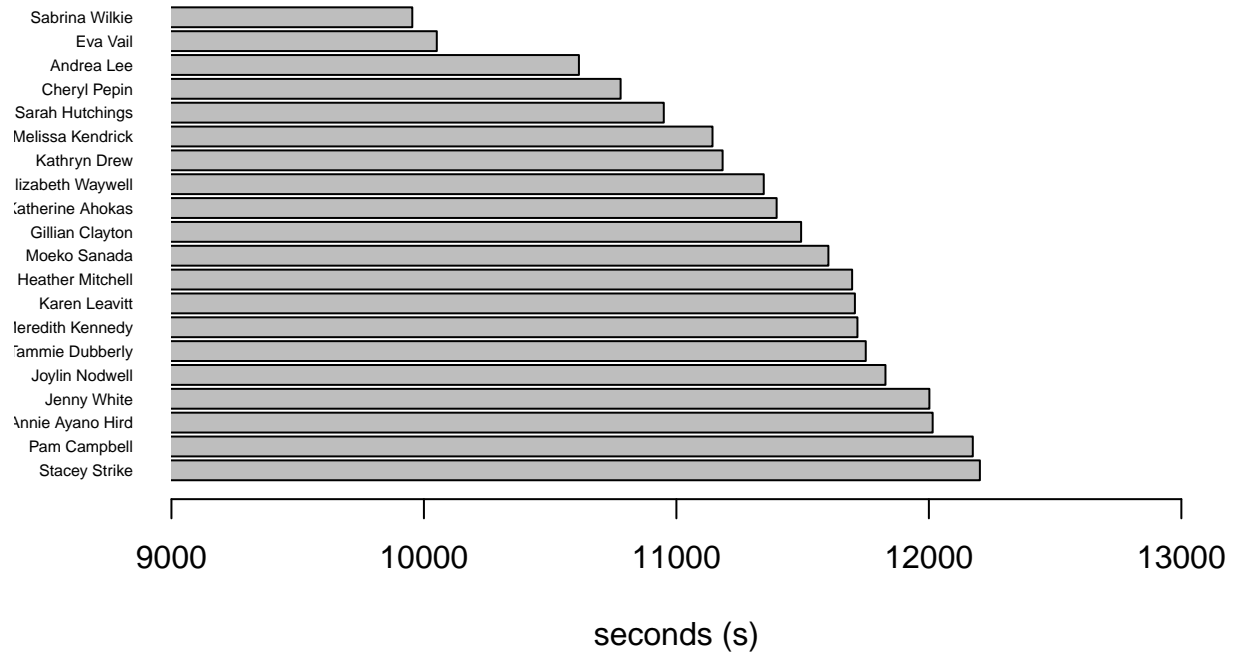




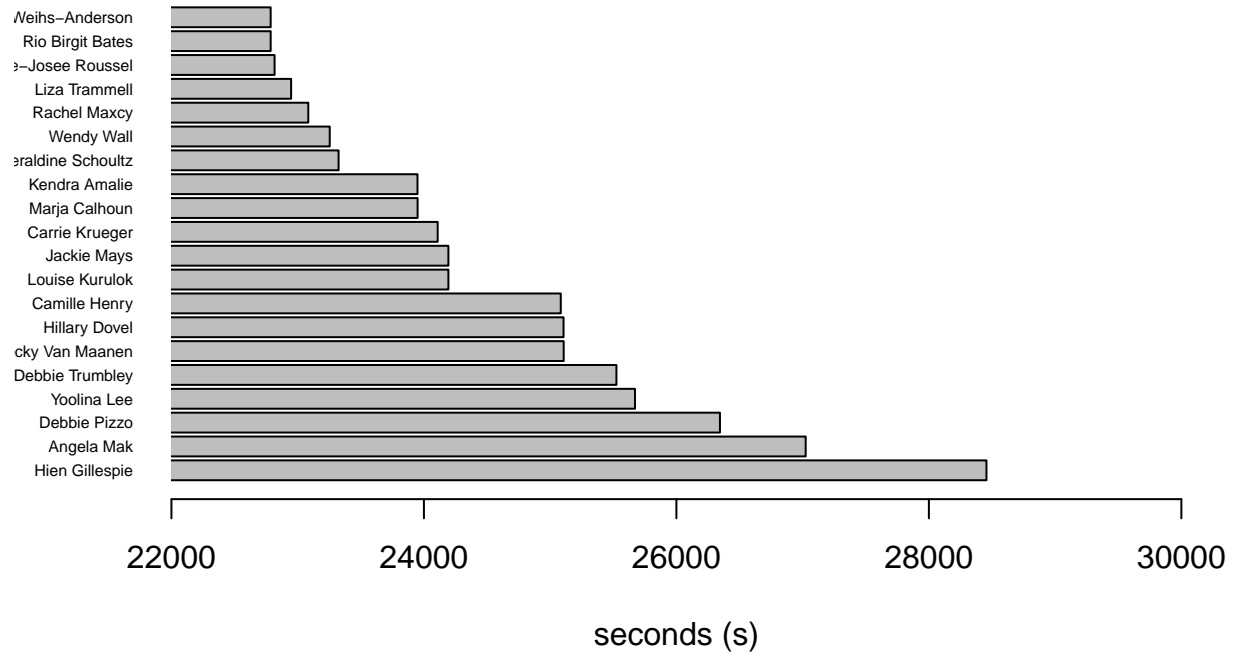
## Bottom 20 Marathoner Finish Times



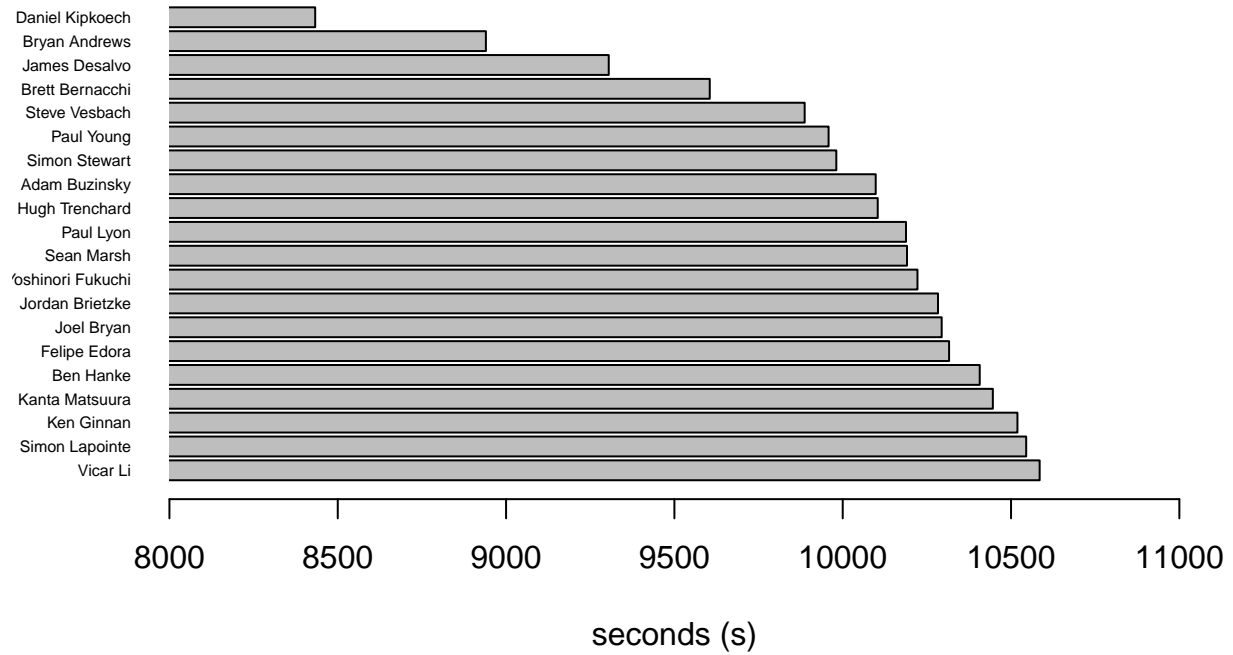
## Top 20 Female Marathoner Finish Times



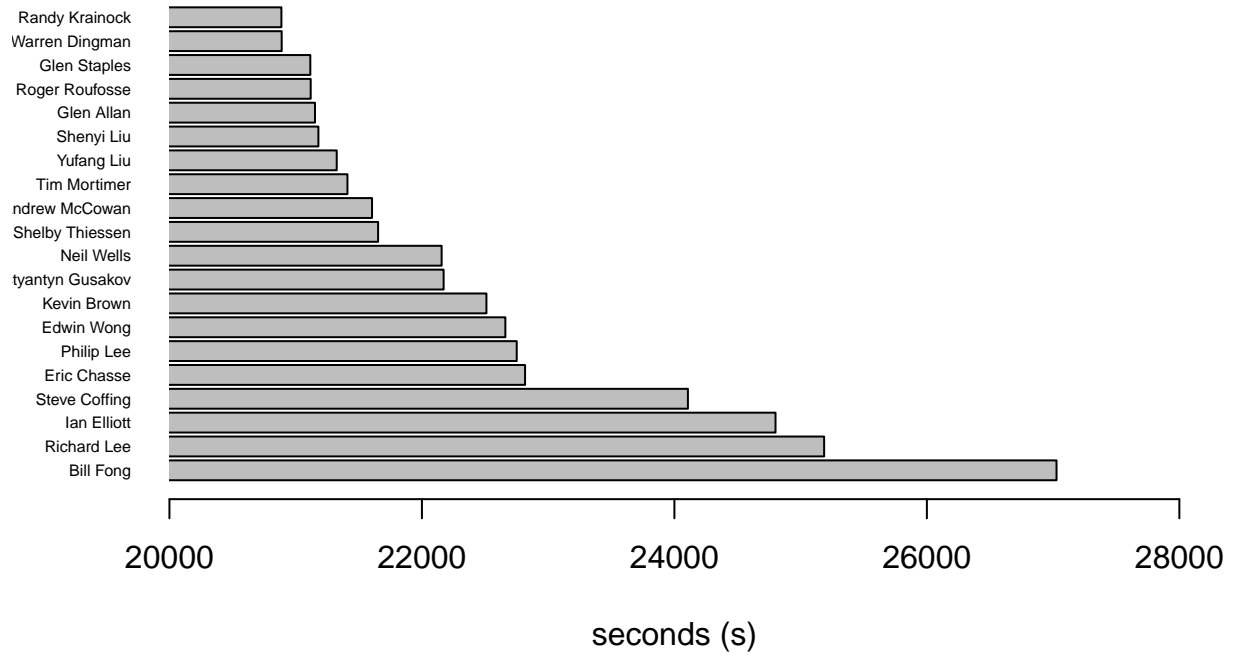
## Bottom 20 Female Marathoner Finish Times



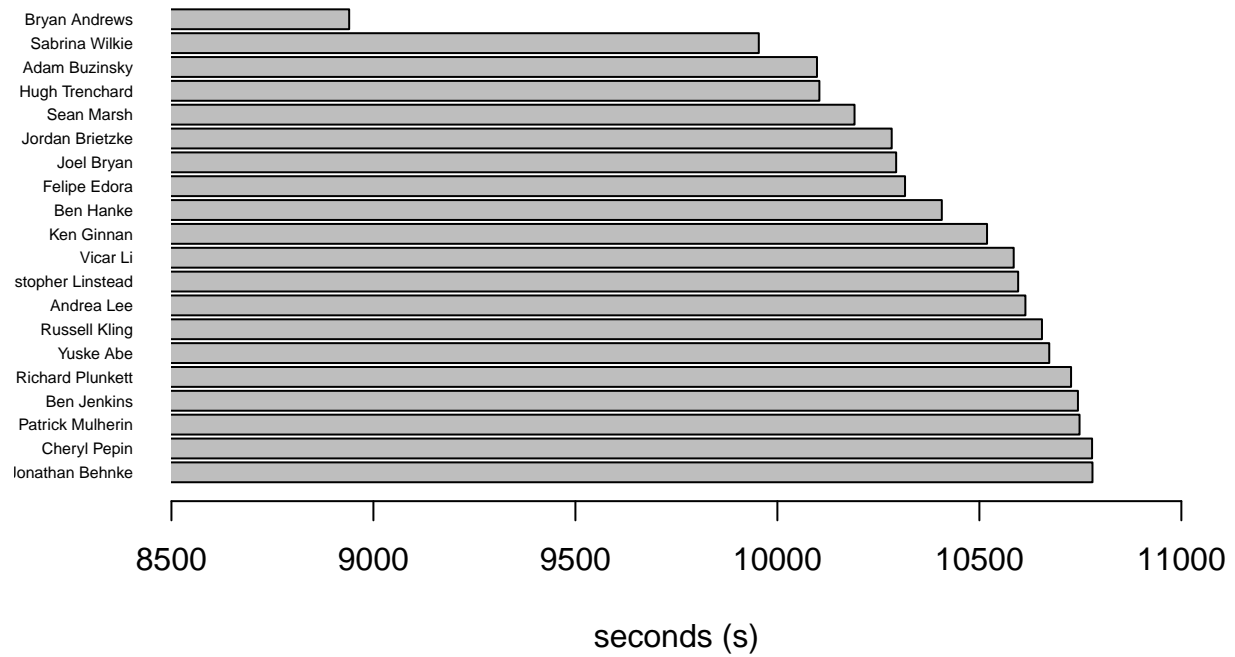
## Top 20 Male Marathoner Finish Times



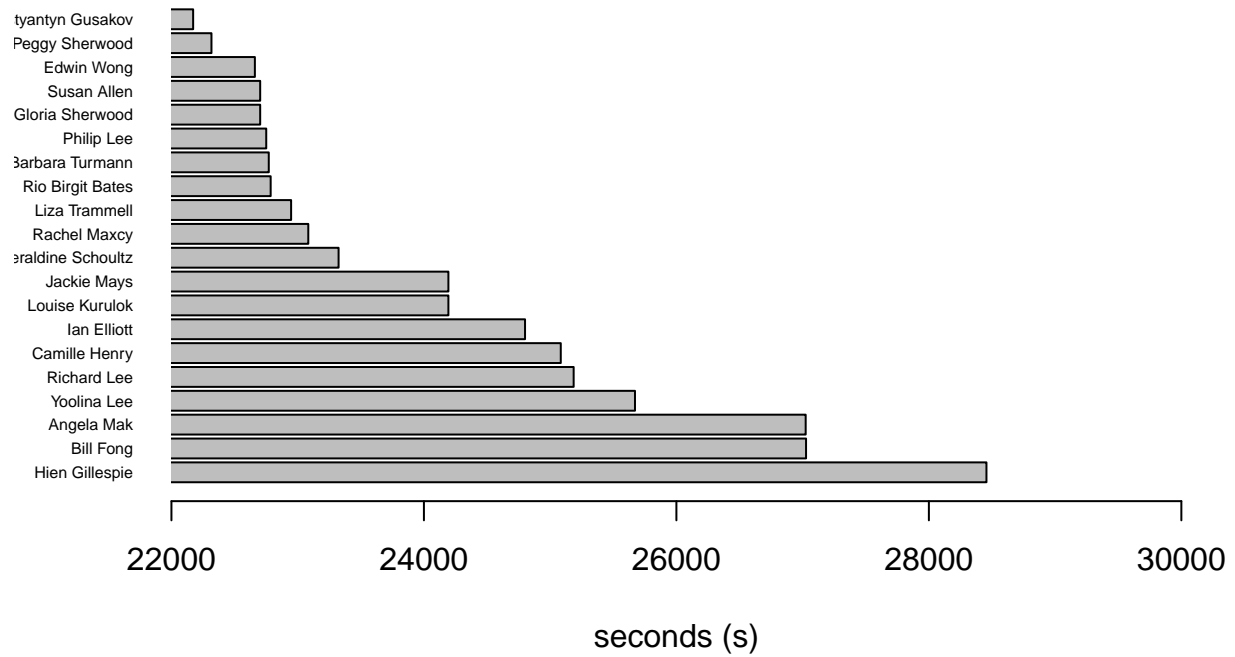
## Bottom 20 Male Marathoner Finish Times



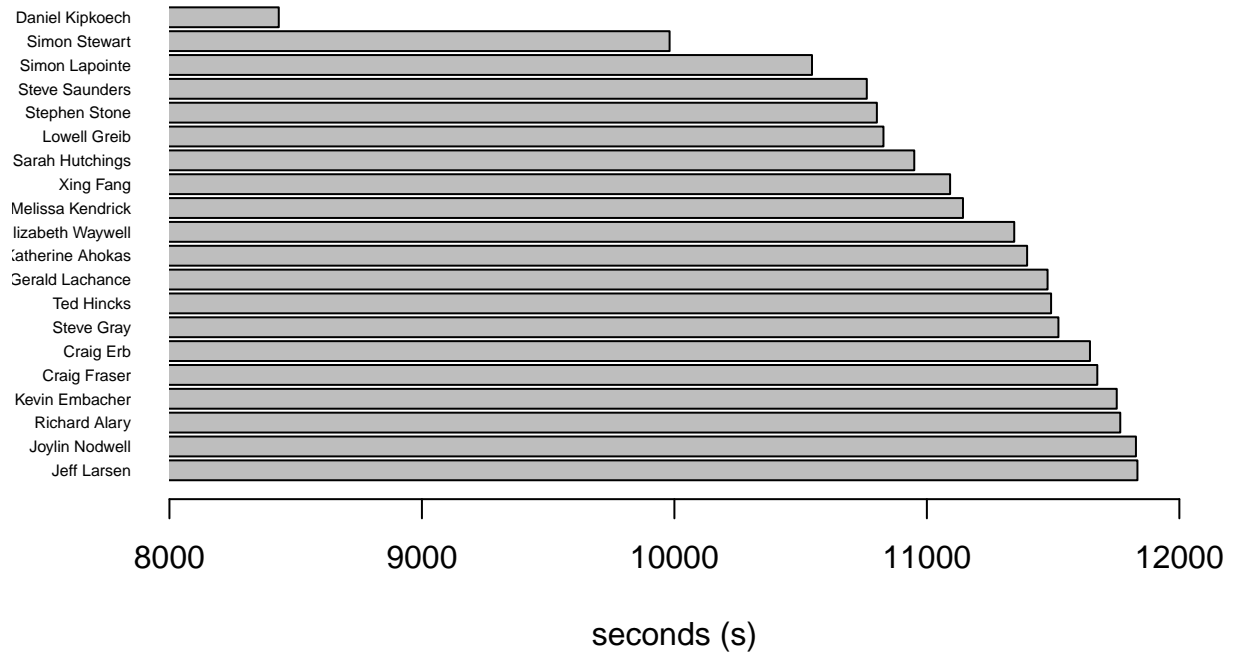
## Top 20 BC Marathoner Finish Times



## Bottom 20 BC Marathoner Finish Times

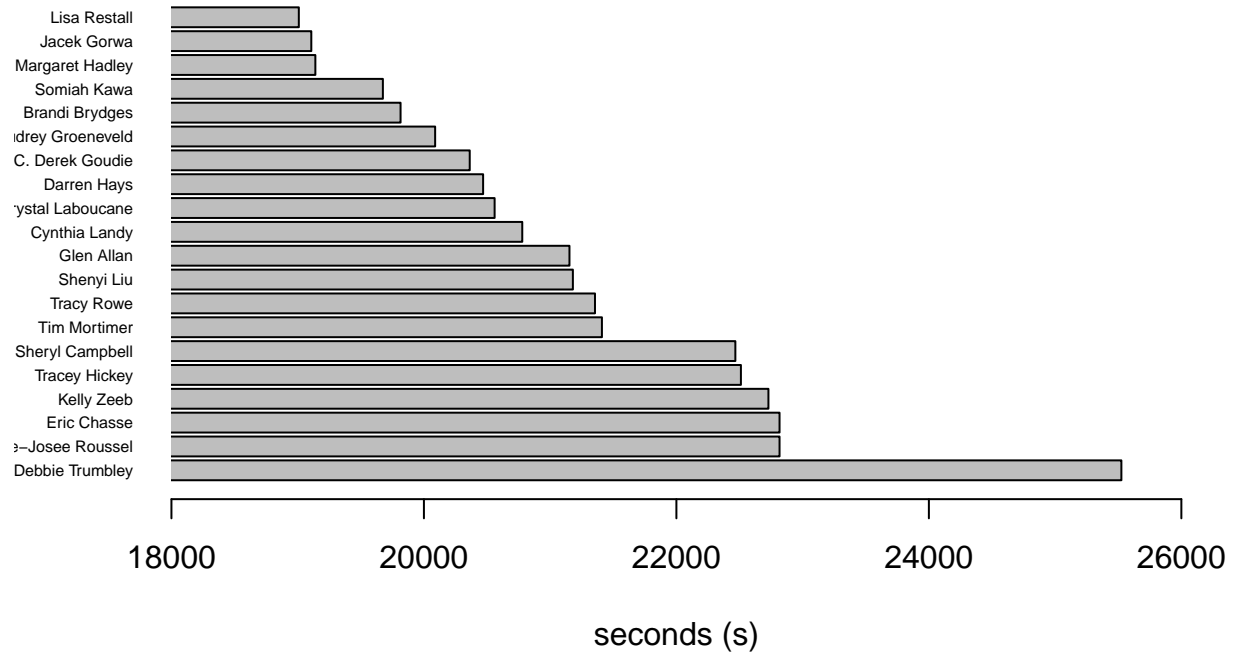


## Top 20 BC Marathoner Finish Times

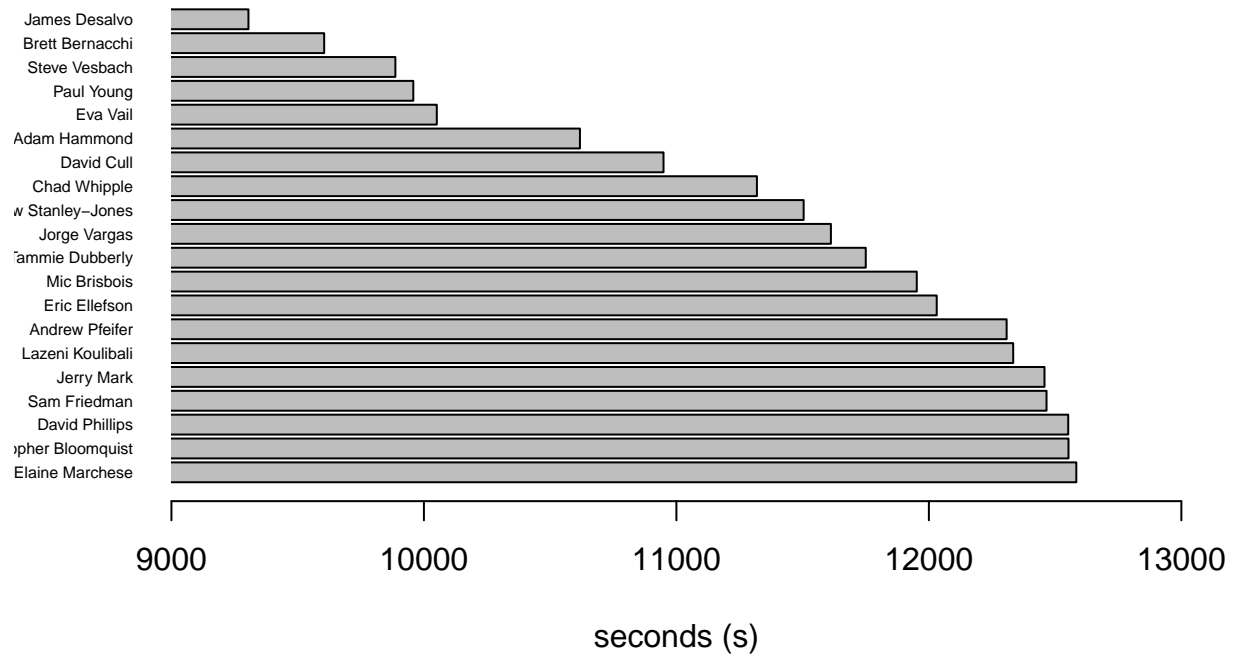




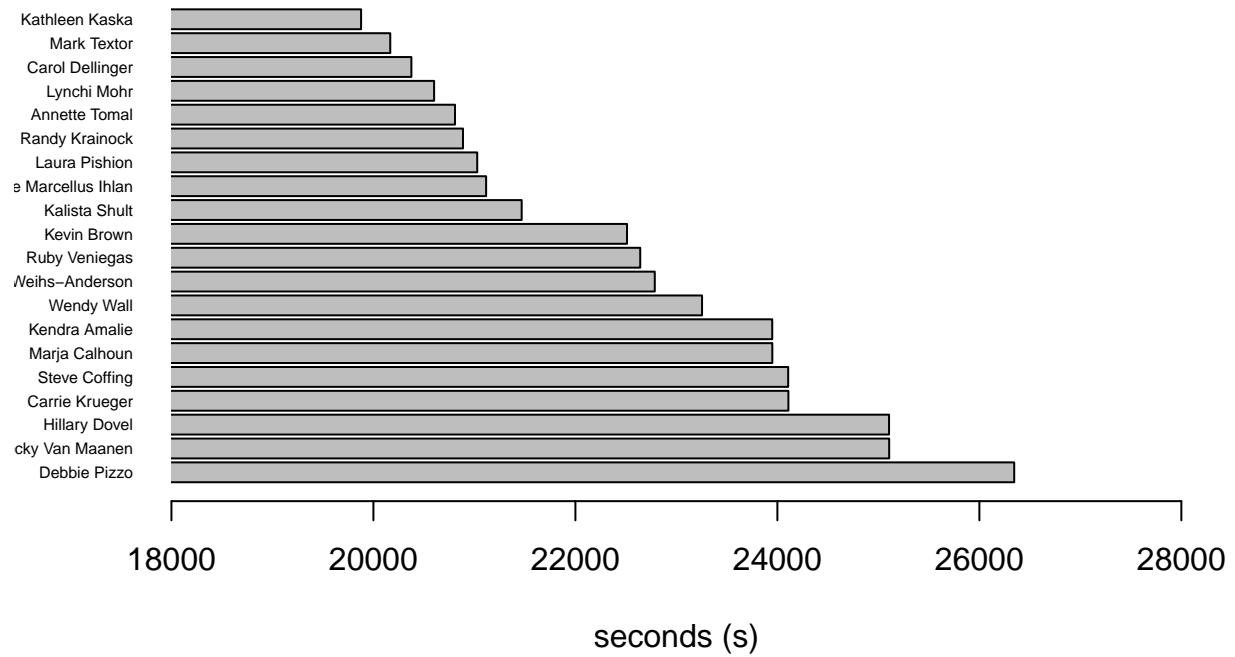
## Bottom 20 Non-BC Canadian Marathoner Finish Times



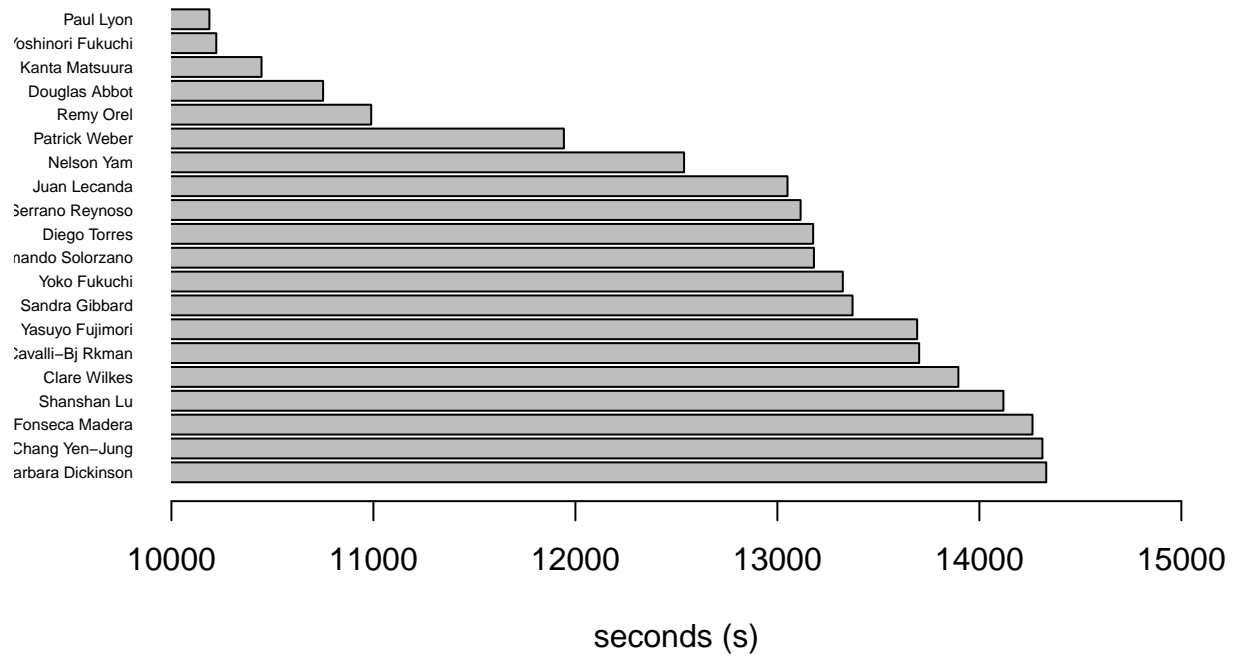
## Top 20 American Marathoner Finish Times



## Bottom 20 American Marathoner Finish Times



## Top 20 non Canadian/American Marathoner Finish Times



## Bottom 20 non Canadian/American Marathoner Finish Times

