

CSC 371 - Final Project

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April 8, 2017

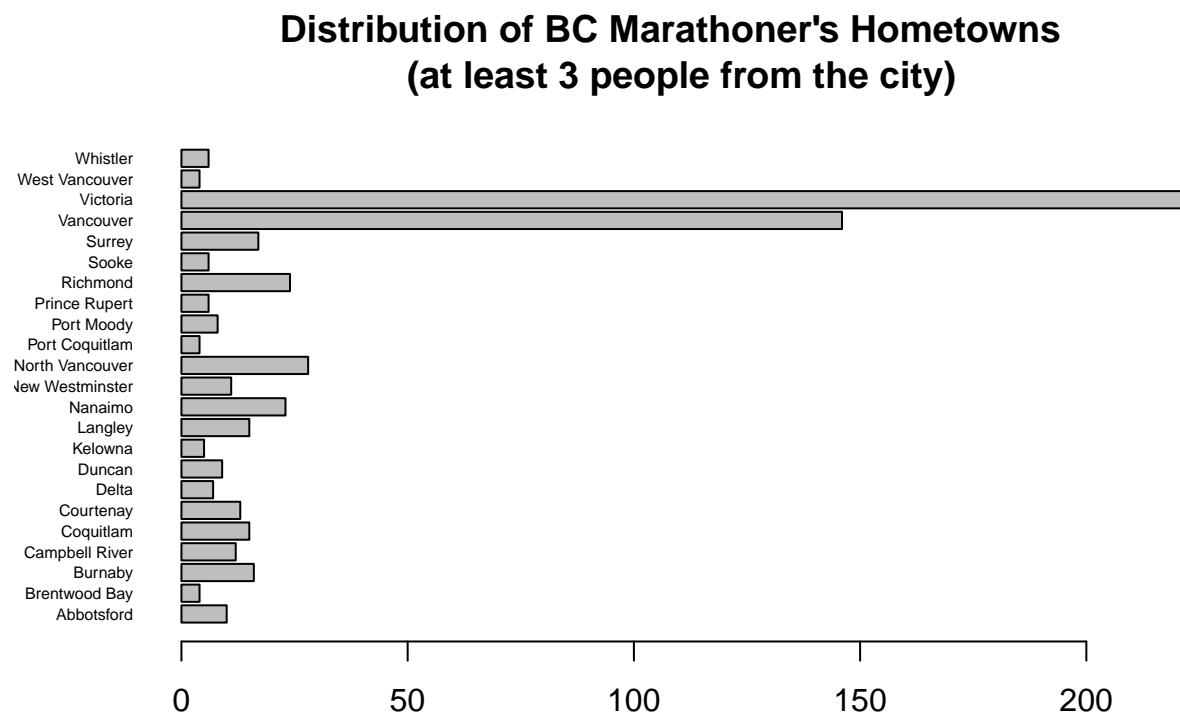
This project is to illustrate data visualization techniques used on the Victoria Marathon 2016 dataset (https://connex.csc.uvic.ca/access/content/group/788529df-e04c-4ee7-a7e7-886b19555ec0/misc/victoria_marathon_2016.sql)

Sqlite3 was used to convert the victoria_marathon_2016.sql into a .csv file which was then analyzed using R.

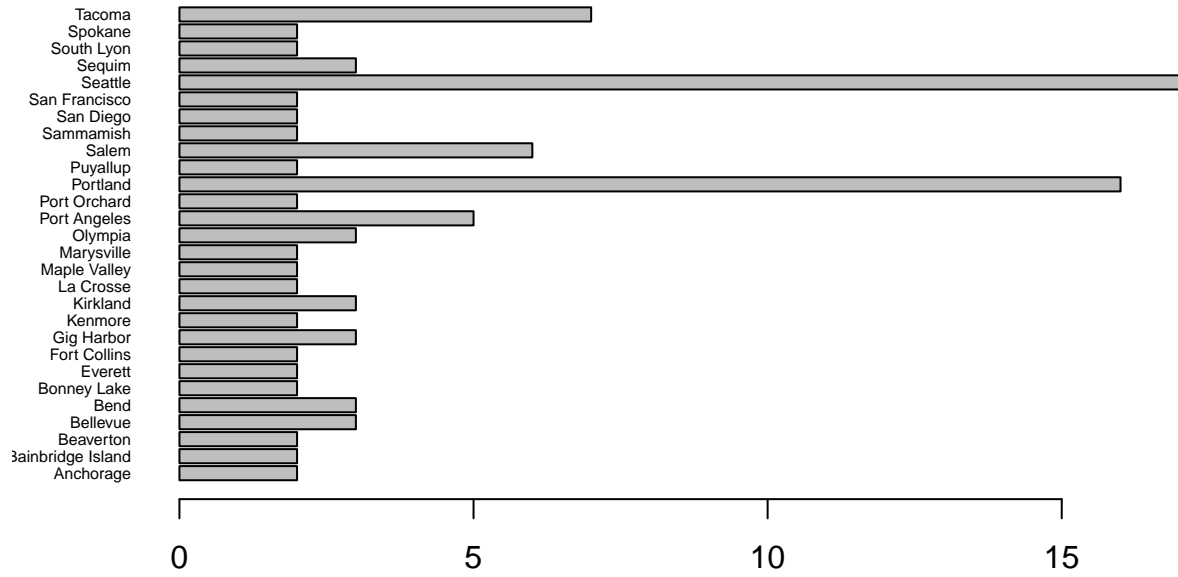
Three particular aspects of the dataset was chosen to be analyzed

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

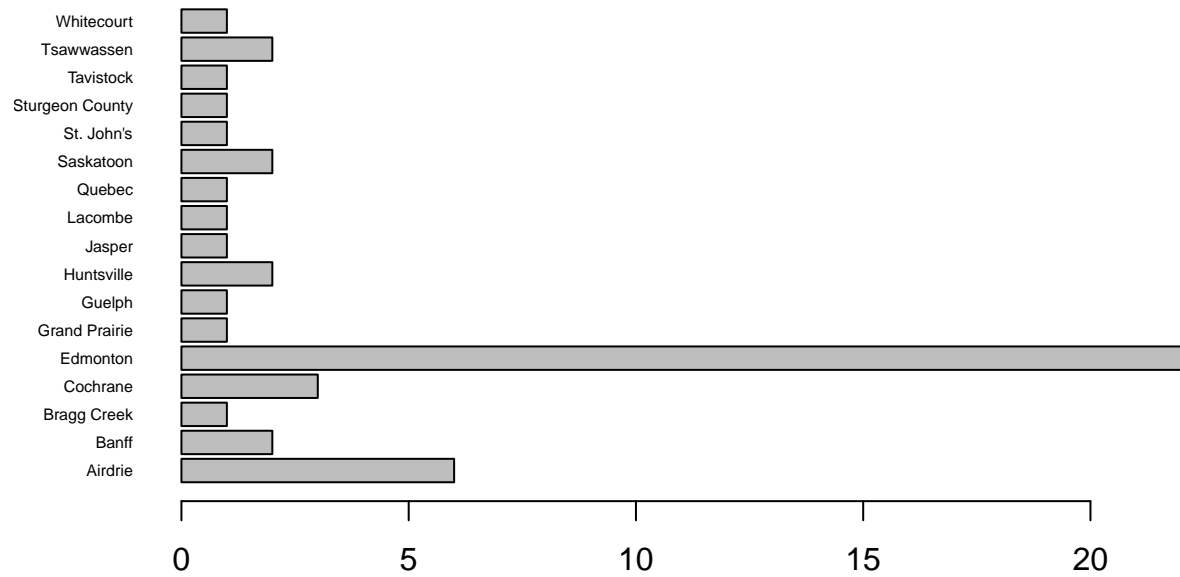
Plots of Distribution of Marathoner's Home Town



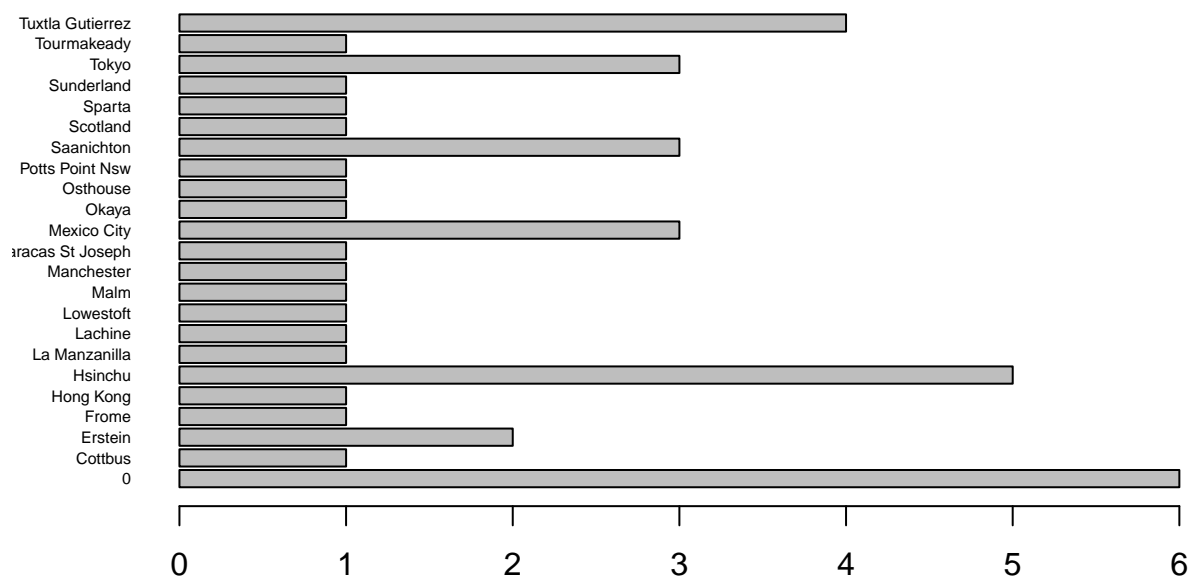
Distribution of US Marathoner's Hometowns (at least 2 people from the city)



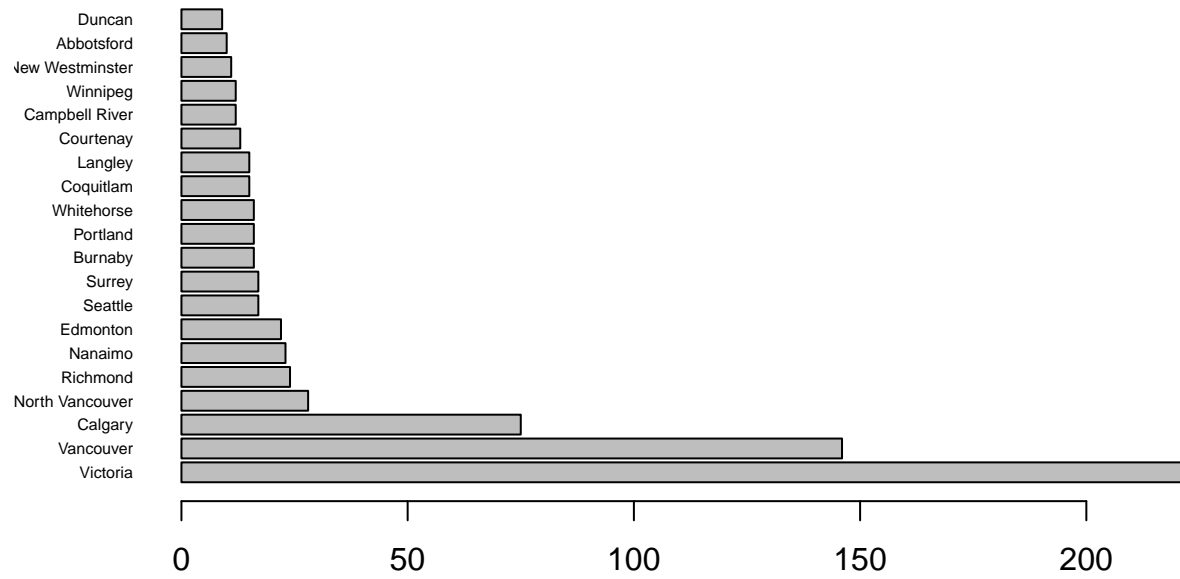
Distribution of Canadian Marathoner's Hometowns from outside of B (at least 2 people from the city)



Distribution Marathoner's Hometown outside of Canada/US

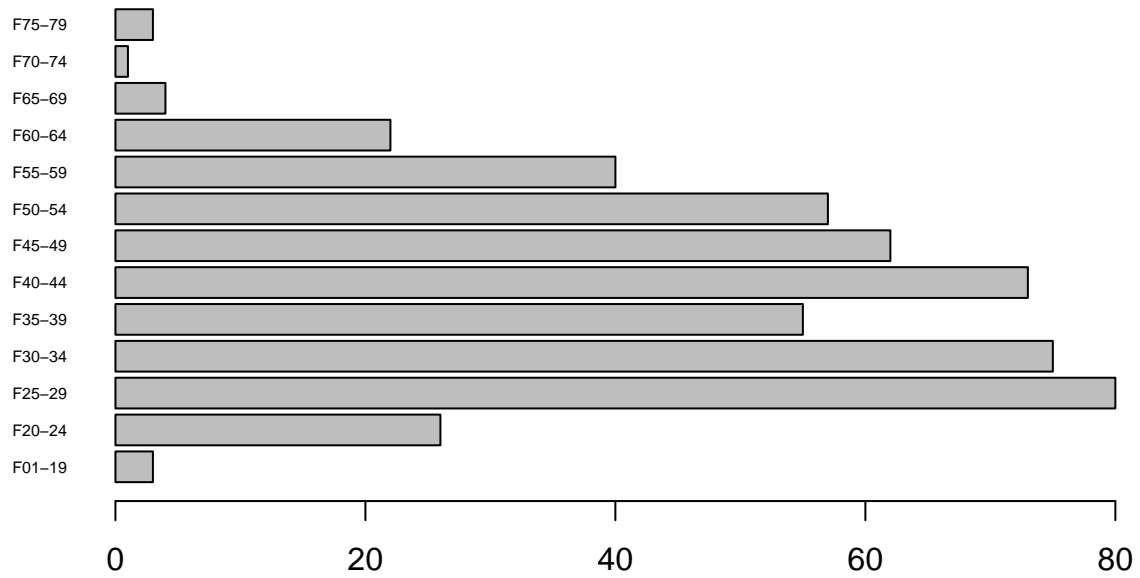


Top 20 City Representation by Marathoners

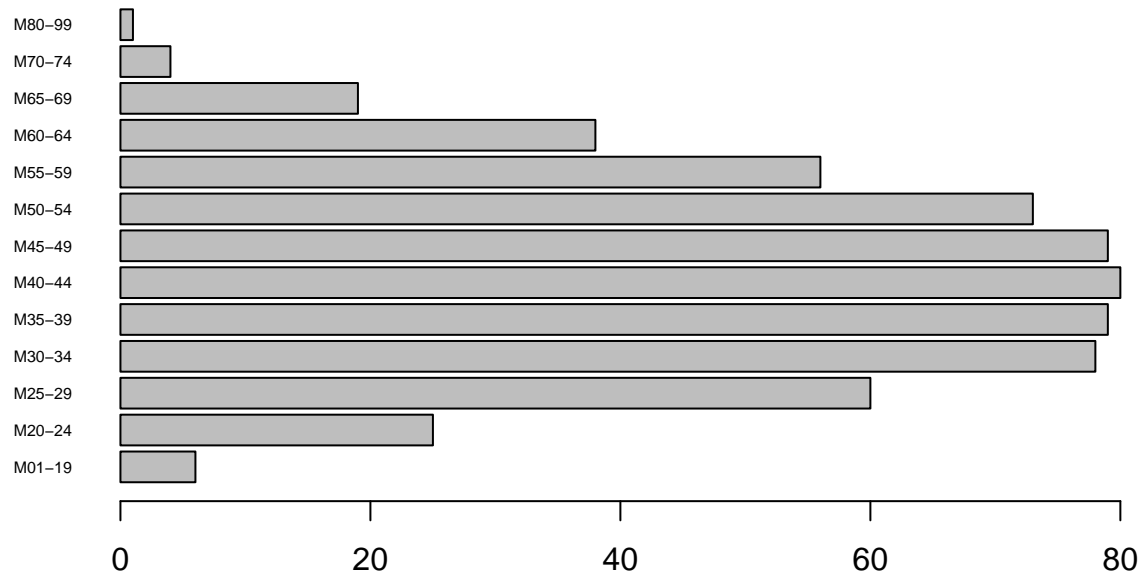


Age Distribution by Gender

Distribution of Age of Female Marathoners

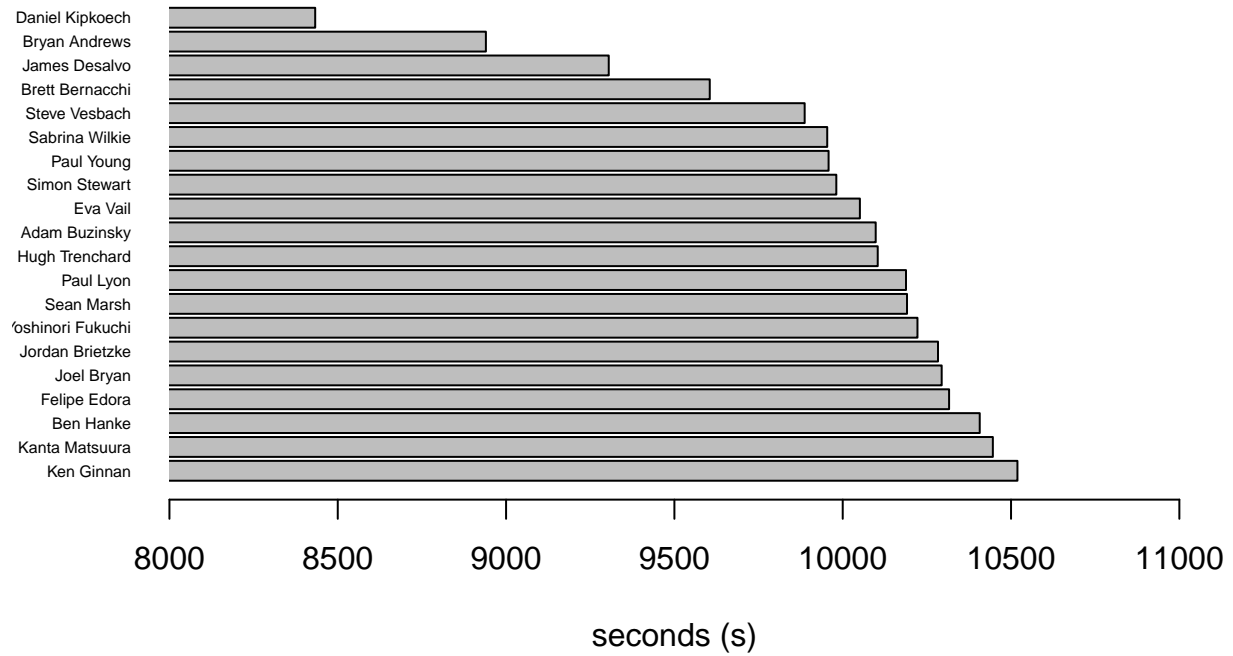


Distribution of Age of Male Marathoners

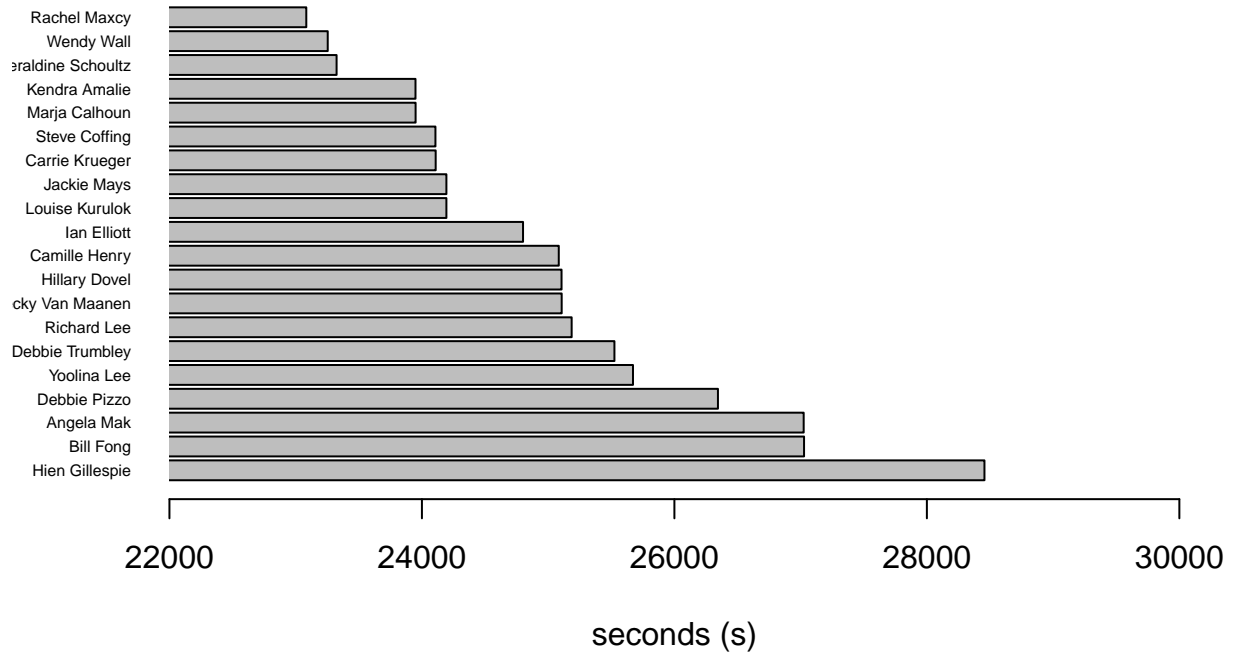


Distribution of Finish Times

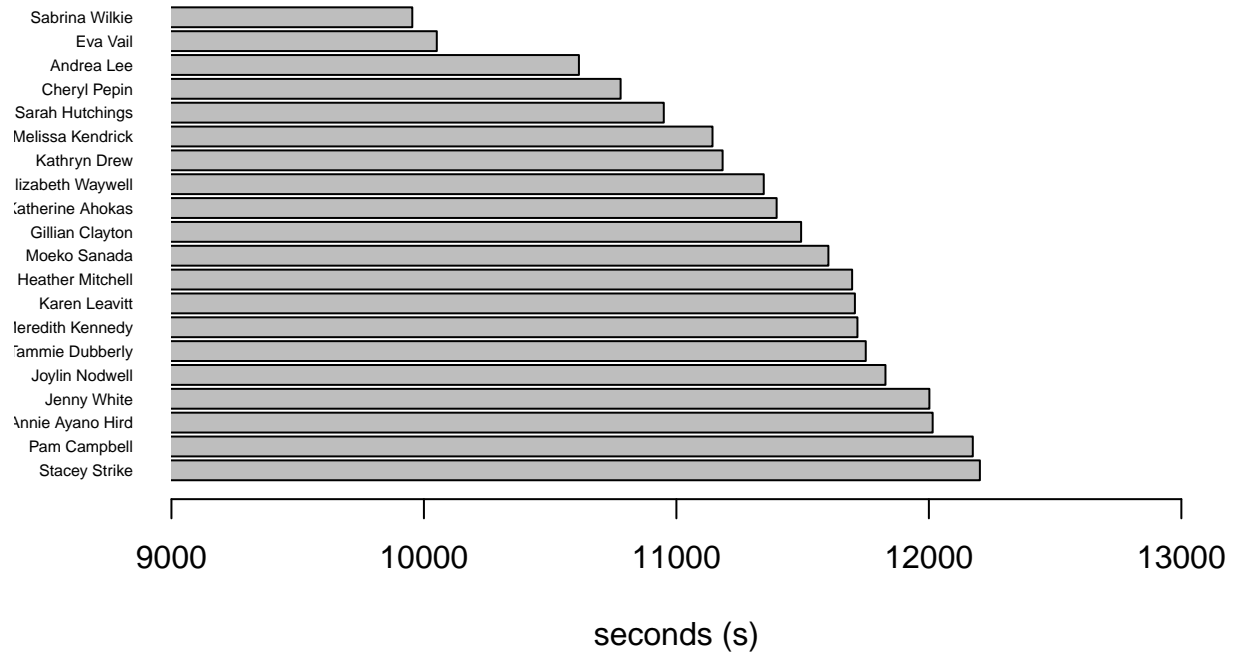
Top 20 Marathoner Finish Times



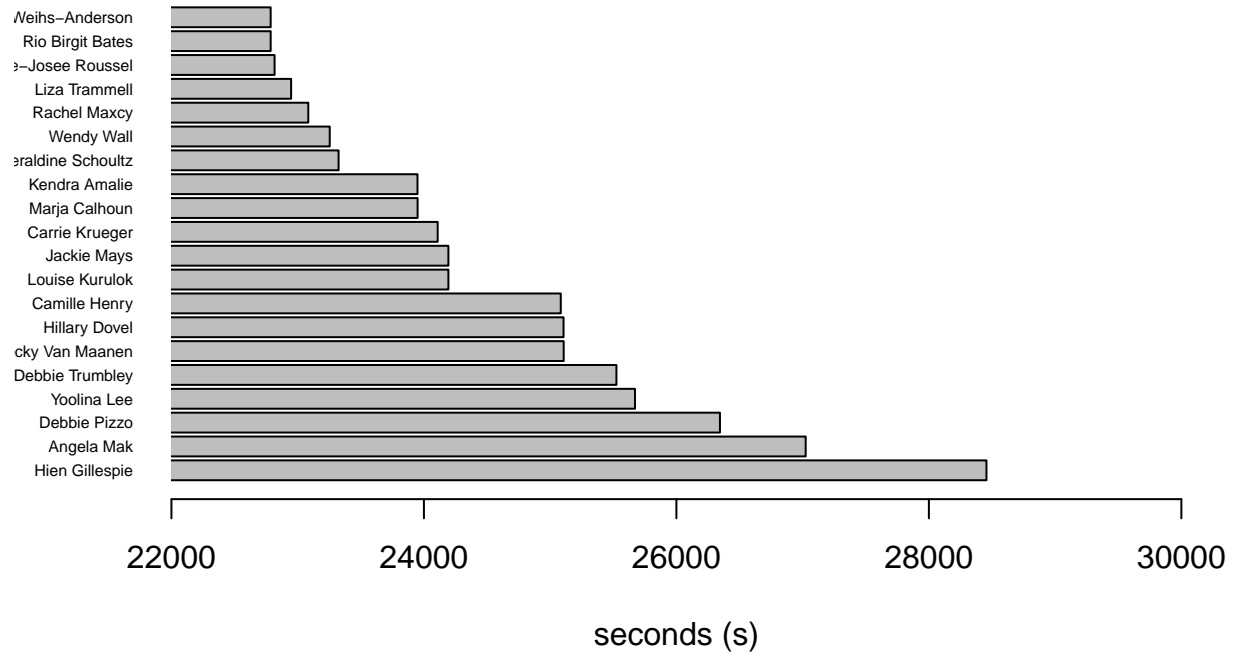
Bottom 20 Marathoner Finish Times



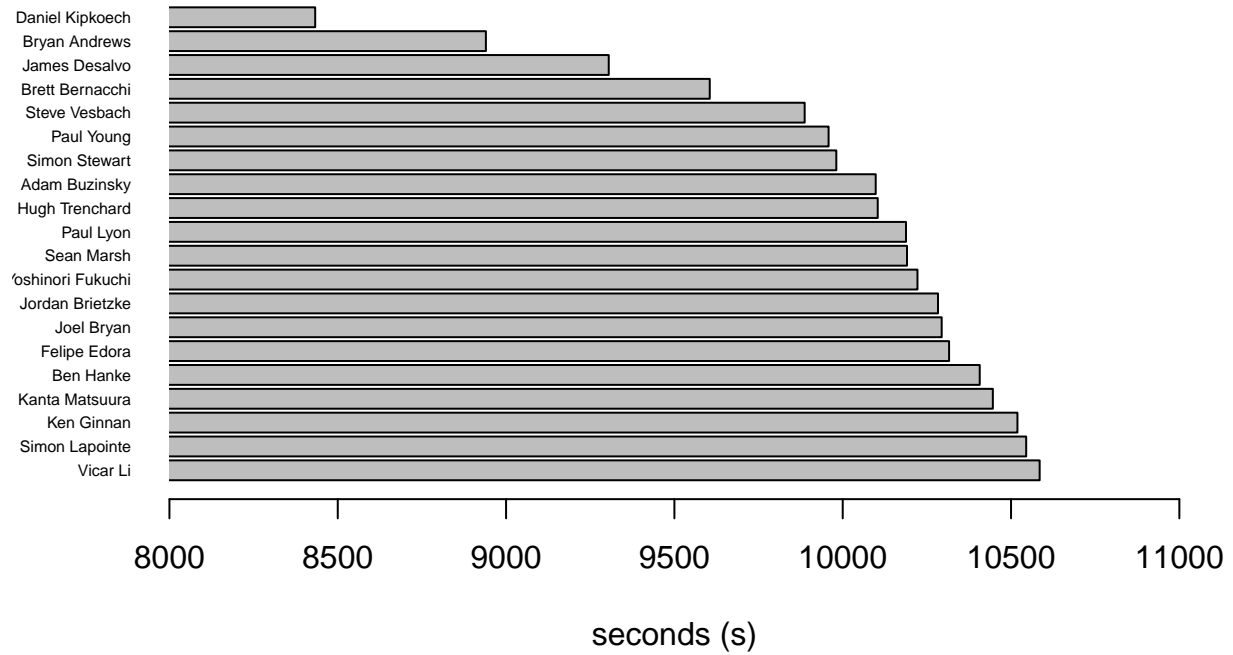
Top 20 Female Marathoner Finish Times



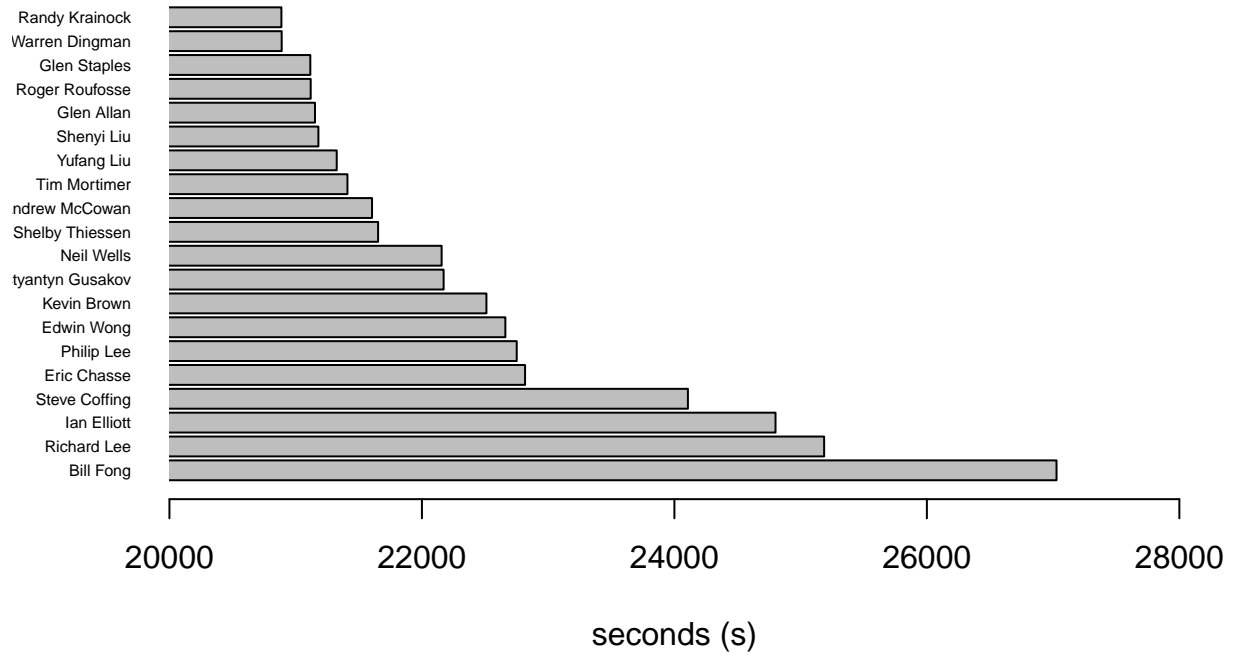
Bottom 20 Female Marathoner Finish Times



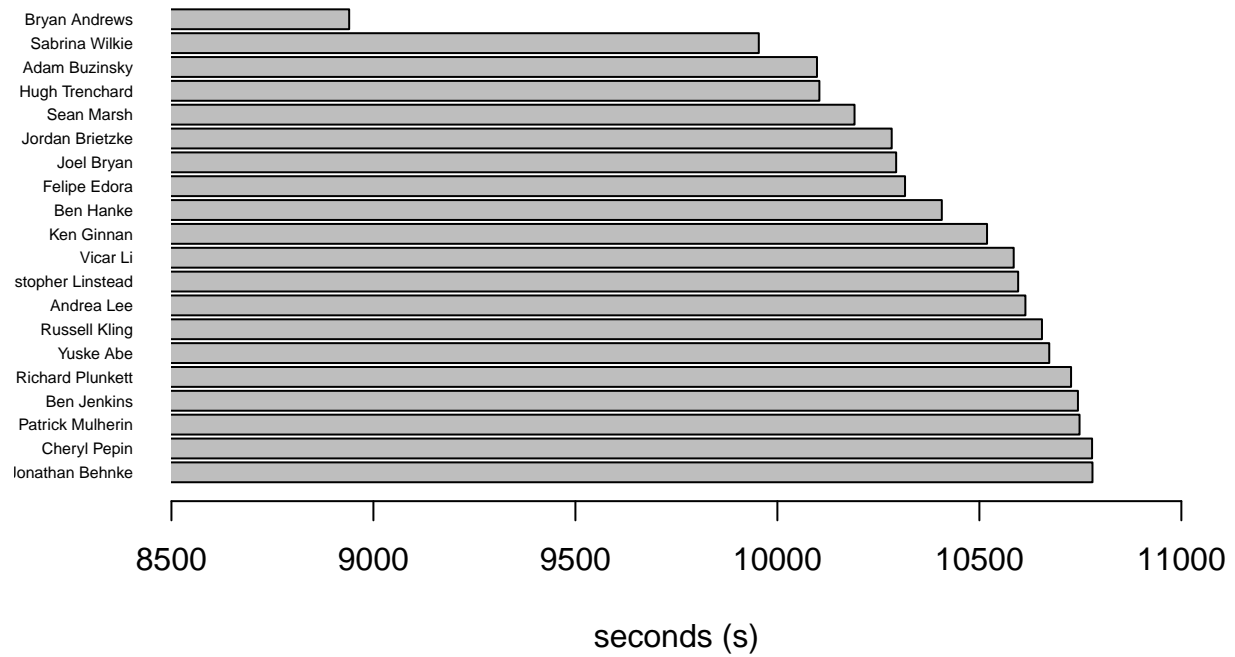
Top 20 Male Marathoner Finish Times



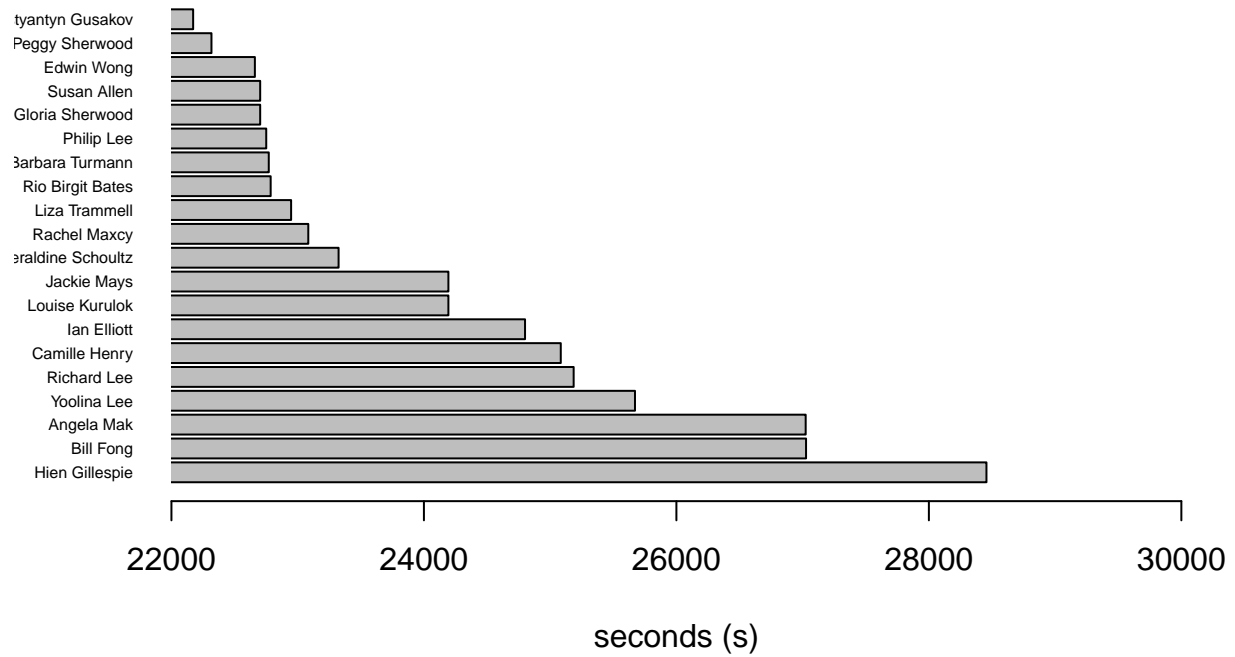
Bottom 20 Male Marathoner Finish Times



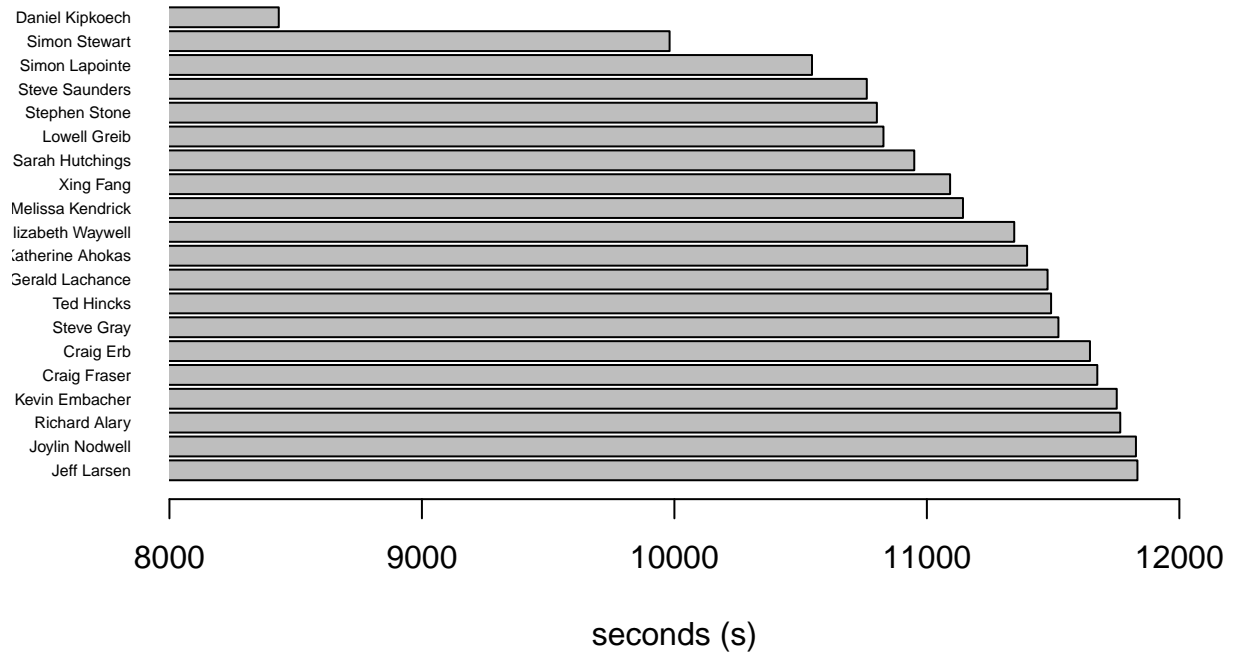
Top 20 BC Marathoner Finish Times



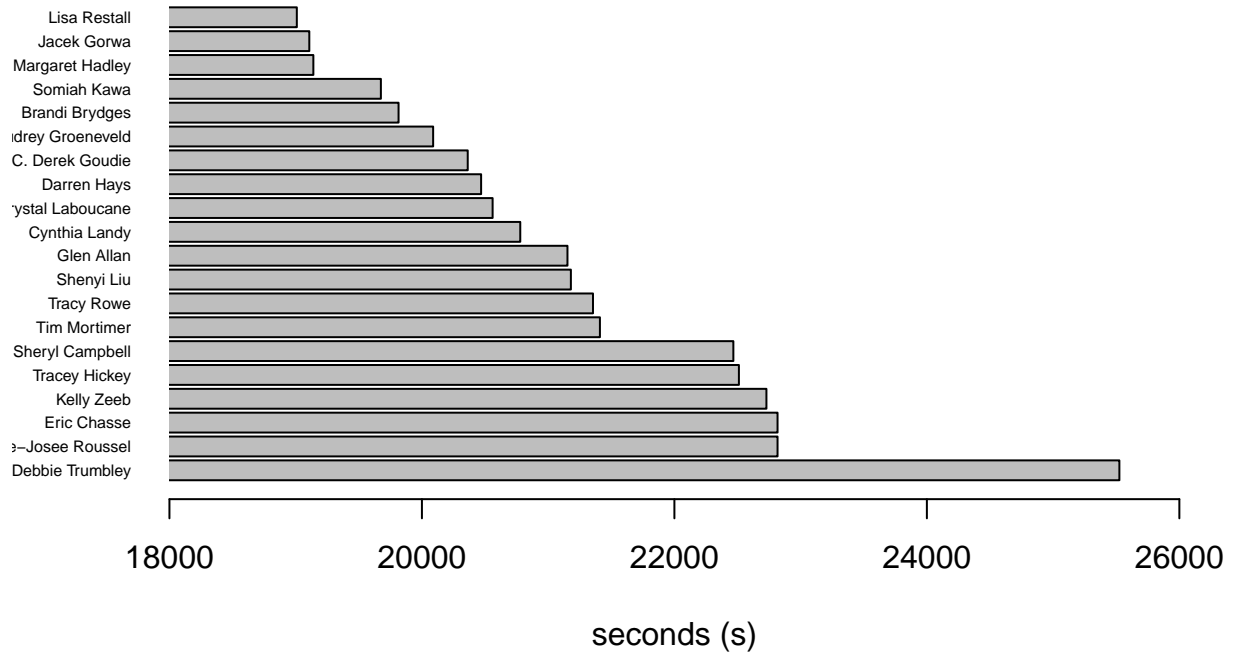
Bottom 20 BC Marathoner Finish Times



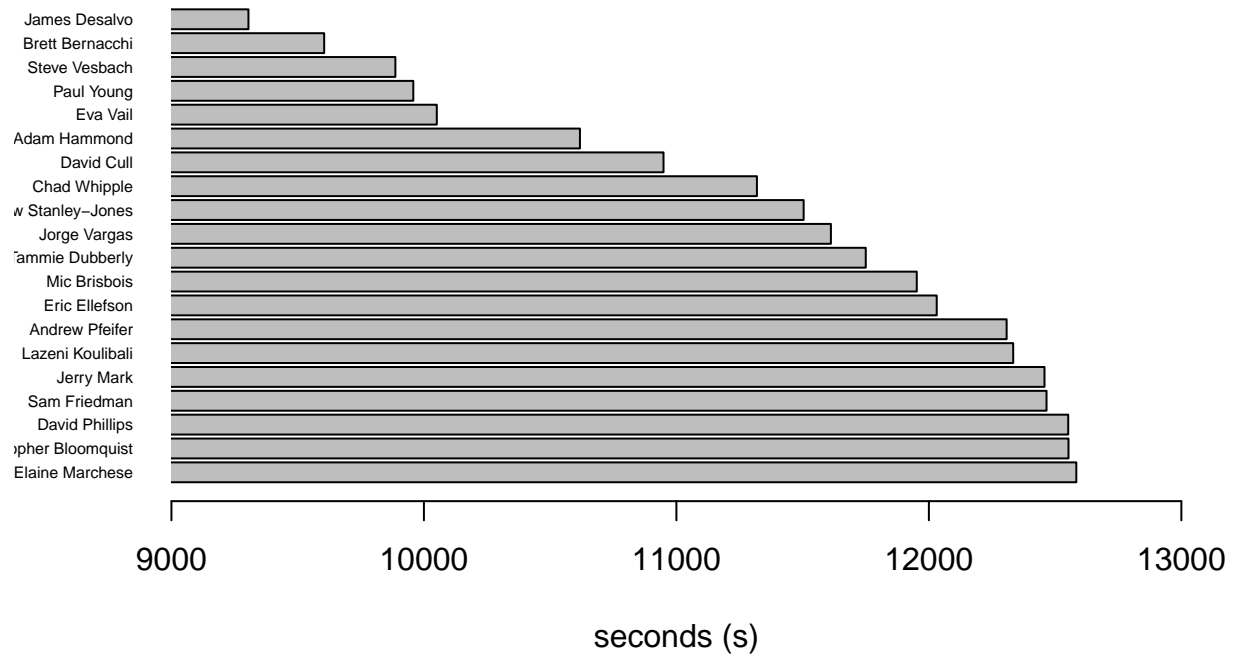
Top 20 BC Marathoner Finish Times



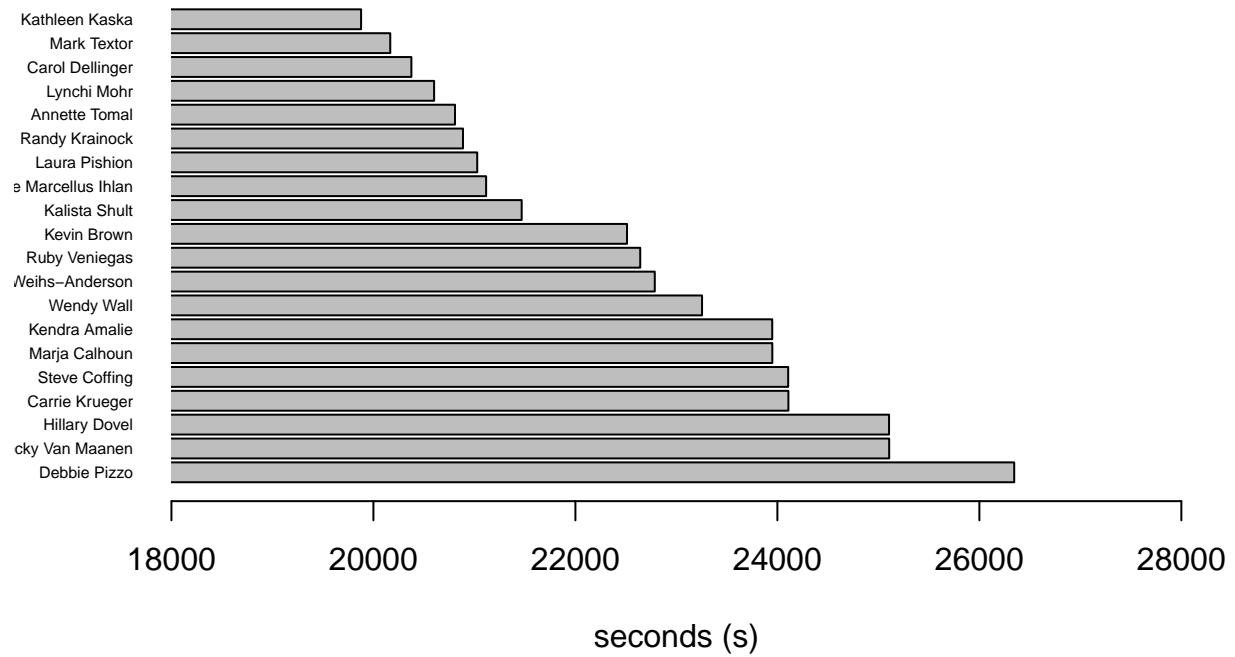
Bottom 20 Non-BC Canadian Marathoner Finish Times



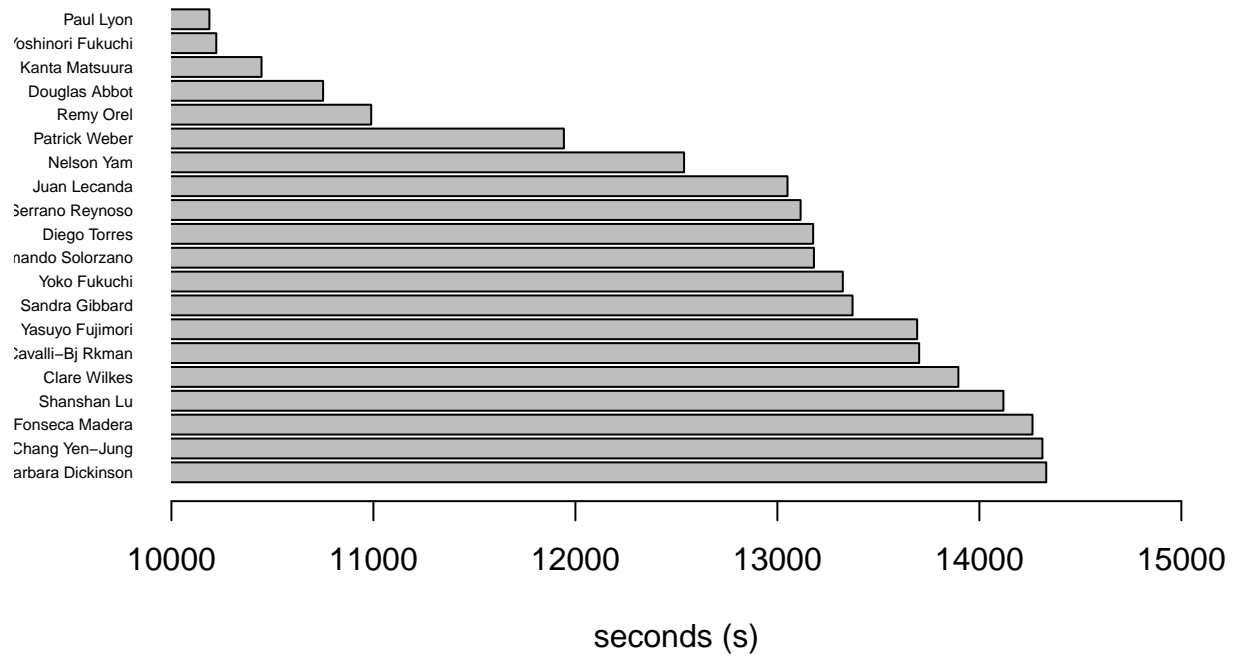
Top 20 American Marathoner Finish Times



Bottom 20 American Marathoner Finish Times



Top 20 non Canadian/American Marathoner Finish Times



Bottom 20 non Canadian/American Marathoner Finish Times

