

NYC Marathon 1970-2023

mth161-fa24 Project 2

Gaël de Montigny

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In this activity we are going to explore Marathon times of runners in the Men and Women divisions of the New York City Marathon from 1970 to 2023. We will generate simple graphical and numerical summaries of data on these marathons times.

```
library(tidyverse)
library(openintro)
```

For this project we will be using (Wikipedia, List of winners of the New York City Marathon. Retrieved 6 November, 2023) for our dataset.

https://en.wikipedia.org/wiki/List_of_winners_of_the_New_York_City_Marathon

```
glimpse(nyc_marathon)
```

Rows: 108

Columns: 7

```
$ year      <dbl> 1970, 1970, 1971, 1971, 1972, 1972, 1973, 1973, 1974, 1974, 1~
$ name      <chr> "Gary Muhrccke", NA, "Norman Higgins", "Beth Bonner", "Sheldon~
$ country   <chr> "United States", NA, "United States", "United States", "Unite~
$ time      <time> 02:31:38,      NA, 02:22:54, 02:55:22, 02:27:52, 03:08:41, ~
$ time_hrs  <dbl> 2.527222, NA, 2.381667, 2.922778, 2.464444, 3.144722, 2.36500~
$ division  <chr> "Men", "Women", "Men", "Women", "Men", "Women", "Men", "Women~
$ note      <chr> "Course record", "No woman finishers", "Course record", "Worl~
```