How long did each Australia Prime Minister lived, by year of birth?*

Joseph Chung

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Abstract

Tutorial 7 topic Web Scraping

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1 Findings

I tried to copy one of the examples from the textbook after reading about what was expected for this week's tutorial (Alexander 2023). I first attempted to scrape data from the provided Wikipedia websites using the "SelectorGadget," but I couldn't seem to get it to work. When I couldn't get it to work, I manually scraped the data from the websites using the html element (".wikitable") code. For each site, on three out of the four sites, the code extracted the data from a small table, which is unimportant for the tutorial. But luckily, one site (Australia) came back with information from a large table with the dataset we need (although we found some missing values that will be discussed later in the paper).

2 Data

The data was scraped from "List of prime ministers of Australia – Wikipedia" (Wikipedia, n.d.) The scraped data contained 10 variables and 76 observations named 'parse_data_selector_gadget." From this set, we cleaned the data to our needs, and it was reduced to 4 variables and 31 observations: name, born, died, and age_at_death, as shown in Table 1. Figure 1 illustrates each Prime Minister's lifespan on a graph.

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*Code and data are available at: https://github.com/UtopianYoungChung/Tutorial-7.git

Table 1: Australian Prime Minister and their life span

Prime Minister	Birth year	Death year	Age at death
Edmund Barton	1849	1920	71
Alfred Deakin	1856	1919	63
Chris Watson	1867	1941	74
George Reid	1845	1918	73
Andrew Fisher	1862	1928	66
Joseph Cook	1860	1947	87

How long each UK Prime Minister lived, by year of birth
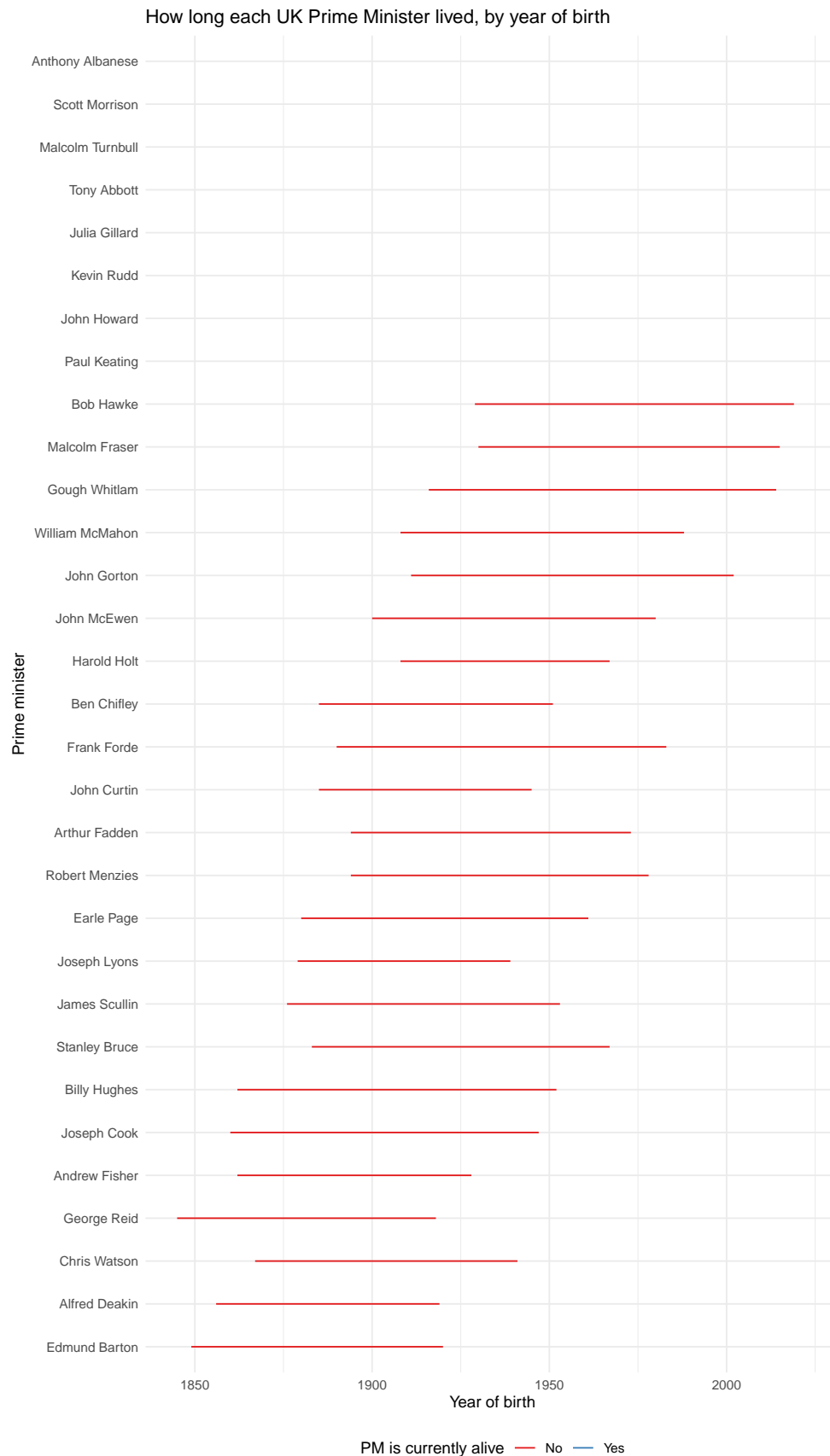
Figure 1: Australian Prime Minister and their life span

3 Reflection

However, there was missing data on the Prime Ministers who were still alive; 8 observations were removed from the plot. Therefore, we are missing the information of the PMs who have yet to die; all 4 variables on the PM are missing.

With more resources and time, I propose doing some more scraping and developing codes to scrape all the information.

References

Alexander, Rohan. 2023. *Telling Stories with Data.* https://tellingstorieswithdata.com/.
Wikipedia. n.d. https://en.wikipedia.org/wiki/List_of_prime_ministers_of_Australia.