

Analyzing the Results of the 2021 Canadian Federal Election

Benny Rochweg

GitHub Repository Link

<https://github.com/bennyrochweg/STA302H1-Tutorial-1.git>

This GitHub Repository contains Figures and R code used to generate this report.

Dataset Sketch

A sketch of the necessary dataset (Figure 1) is shown in **Figure 1.JPG** on the GitHub repository.

Graph Sketch

A sketch of a pertinent graph (Figure 2) is shown in **Figure 2.JPG** on the GitHub repository.

Preamble Documentation

```
#### Preamble ####
```

```
# Purpose: Use 2021 Canadian Federal Election outcome data  
# to generate a graph displaying the total number of ridings  
# held by different political parties.  
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# Date: January 9, 2024
```

```
# Prerequisites: Access to data containing the results of the
# 2021 Canadian Federal Election.
```

Data Simulation

Table 1: Partial Simulated Results of the 2021 Canadian Federal Election

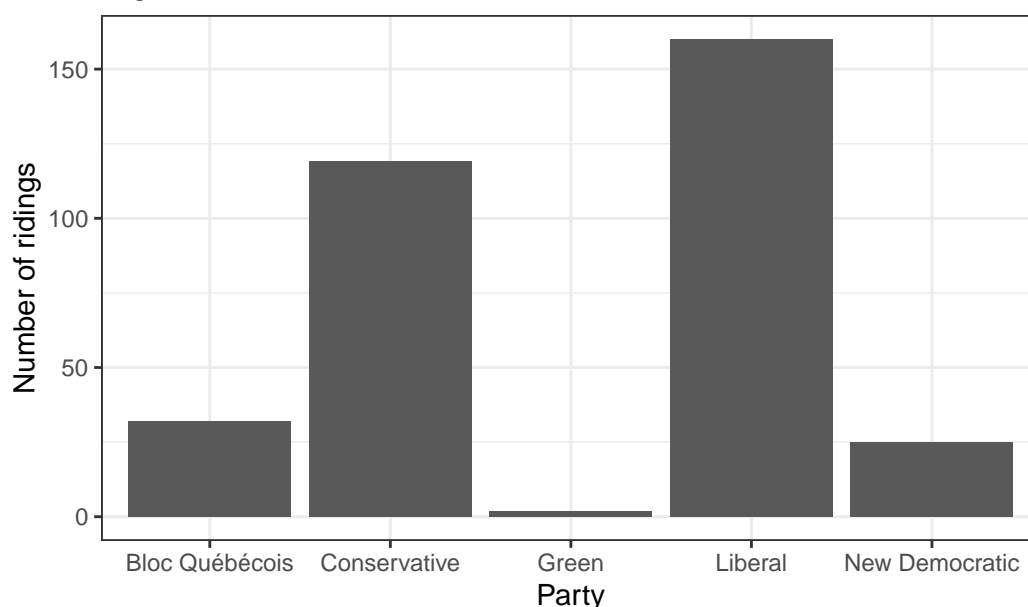
| Riding | Party |
|--------|----------------|
| 1 | Conservative |
| 2 | Other |
| 3 | Bloc Québécois |
| 4 | Liberal |
| 5 | Conservative |
| 6 | Other |

Election Results

Table 2: Number of Ridings Won by Each Party in the 2021 Canadian Federal Election

| Party | Number of ridings |
|----------------|-------------------|
| Bloc Québécois | 32 |
| Conservative | 119 |
| Green | 2 |
| Liberal | 160 |
| New Democratic | 25 |

Figure 3: Results of the 2021 Canadian Federal Election



Discussion

Canada's lower house, the House of Commons, consists of 338 seats represented by several political parties (Alexander 2023). The Liberal and Conservative parties are the main parties, while the Bloc Québécois, New Democratic, and Green parties are minor parties (Alexander 2023). On September 20, 2021, a federal election was held in Canada (Aiello 2021); the outcome of this election was examined in this report.

The results of this election were obtained from Elections Canada (Elections Canada). Next, the resulting data was cleaned by employing the R programming language (R Core Team 2023) and the packages `janitor` (Firke 2023), `tidyverse` (Wickham et al. 2019), and `knitr` (Xie 2023).

Table 2 and Figure 3 depict the results of the 2021 Canadian Federal Election in tabular and graphical form, respectively. The Liberal party secured 160 seats, followed by the Conservative party (119 seats), the Bloc Québécois party (32 seats), the New Democratic party (25 seats), and the Green party (2 seats).

The results of the 2021 Canadian Federal Election closely matched those of the 2019 election (Kestler-D'Amours 2021). This suggests that voters' preferences did not substantially change between the two elections, possibly due to an overall sense of approval of the federal government among the Canadian population (Kestler-D'Amours 2021). However, it was reported that Canadians with disabilities encountered difficulties voting for reasons including inaccessible polling stations (Bernard 2021). This indicates that the election results, and thus the resulting

composition of the federal government, were likely not representative of the general population as a whole.

Acknowledgements

This report was adapted from *Telling Stories with Data* by Rohan Alexander (Alexander 2023).

References

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