

Data of members of Toronto City Council - Voting Records*

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This study examines the voting records of Toronto City Council members from 2018 to 2022, a period highlighted by substantial political and social changes. The dataset is used to calculate voting trends, attendance, and council member alignment. This study uses substantial data processing and analysis to uncover voting patterns and council political dynamics. The analysis focuses on decision-making tendencies, important votes, and the relationships between council members' votes and political factors. These findings provide insight into Toronto municipal governance, enriching local politics.

1 Introduction

This study examines the voting behaviors of Toronto City Council members from 2018 to 2022, focusing on their participation rates, vote results and external factors influencing voting decisions. The analysis uses a dataset in R studio (R Core Team 2022) and rigorous data cleaning, transformation, and statistical techniques to interpret complex voting patterns. However, the analysis will also includes tables and bar chart. The study's goal is to determine the consistency and variety in members participation and decisions, as well as to identify any links between voting patterns and political affiliations or external influences.

Table 1: Voting results

Member	n
Mike Layton	1144
Frances Nunziata	1116
Gord Perks	1099

*Code and data are available at: [https://github.com/Cheyuwang/Toronto-data-analysis-tree/main/input%20skatches](https://github.com/Cheyuwang/Toronto-data-analysis/tree/main/input%20skatches).

Member	n
Brad Bradford	1088
Joe Cressy	1085

refer to (fig_1?) Source 2.33 (Alexander 2023)

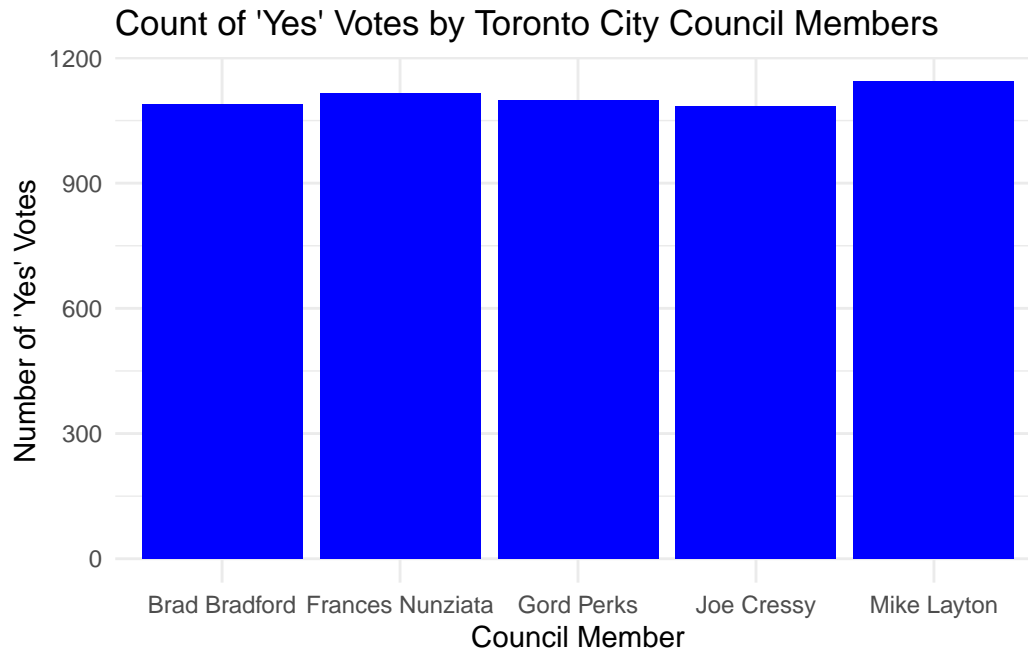


Figure 1: Voting results

Figure.1

2 Data

In this cases, since their's multiple voting results, I picked the five highest voting results from the multiple candidate. However, we can conclude that the gap between the five highest voting results for candidate are really close, so is mean the term "close candidate votes" refers to an election outcome in which the leading candidates obtain almost identical numbers of votes, resulting in a tight margin of victory. Table 1 Figure 1

The way I created this table by the (knitr?) to created the table and bar chart. From the Bar plot figure 1, we see the the same results from the tables that Mike Layton having highest votes in this election.

3 References

(R Core Team 2022) (Firke 2023) (Gelfand 2022)

Alexander, Rohan. 2023. *Telling Stories with Data: With Applications in r*. CRC Press.

Firke, Sam. 2023. *Janitor: Simple Tools for Examining and Cleaning Dirty Data*. <https://github.com/sfirke/janitor>.

Gelfand, Sharla. 2022. *Opendatatoronto: Access the City of Toronto Open Data Portal*. <https://sharlagelfand.github.io/opendatatoronto/>.

R Core Team. 2022. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.