Toronto is becoming more bigoted: An analysis of hate crime in Toronto over time and groups*

My subtitle if needed

Justin Klip

September 23, 2024

Despite Canada's diversity, hate crimes continue to grow in Canada's most multicultural areas. Using data from Open Data Toronto, this paper the tracks the evolution of hate crime in Toronto from 2018 to the end of 2023. Third sentence. Fourth sentence.

1 Introduction

You can and should cross-reference sections and sub-sections. We use R Core Team (2023) and Wickham et al. (2019).

The remainder of this paper is structured as follows. Section 2….

2 Data

Some of our data is of penguins (**?@fig-bills**), from Horst, Hill, and Gorman (2020).

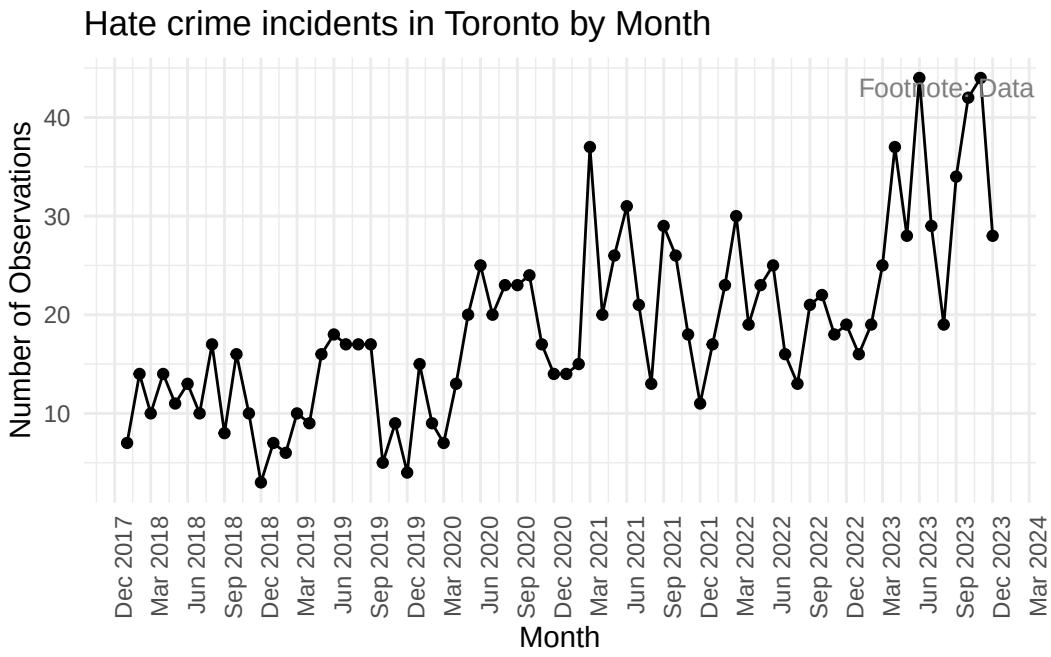
```
hate_crime_analysis_data <- read_csv(here::here("data/analysis_data/hate_crime_analysis_data
```

```
Rows: 1350 Columns: 20
-- Column specification --------------------------------------------------------
Delimiter: ","
chr  (16): event_unique_id, division, location_type, age_bias, mental_or_phy...
dbl   (3): id, occurrence_year, occurrence_time
```

*Code and data are available at: https://github.com/justinklip/hate_crime_toronto_paper.

```
date  (1): occurrence_date

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
#| label: Monthly Hate Crimes in Toronto from 2018-2023
#| fig-cap: Number of reported hate crimes from month to month, labels are quarterly due to s
#| echo: false


# Extract year and month from the 'occurrence_date' column
hate_crime_analysis_data <- hate_crime_analysis_data %>%
  mutate(year_month = floor_date(occurrence_date, "month"))

# Group by year and month, then count observations
monthly_counts <- hate_crime_analysis_data %>%
  group_by(year_month) %>%
  summarise(count = n())

# Plot the number of observations per month, with x-axis labels every quarter
ggplot(monthly_counts, aes(x = year_month, y = count)) +
  geom_line() +   # Use line plot to show trends over time
  geom_point() +  # Add points for better visualization
  labs(title = "Hate crime incidents in Toronto by Month",
       x = "Month",
       y = "Number of Observations") +
  theme_minimal() +
  scale_x_date(date_labels = "%b %Y", date_breaks = "3 months") +
  theme(axis.text.x = element_text(angle = 90, hjust = 1)) +
  annotate("text", x = as.Date("2023-01-01"), y = max(monthly_counts$count),
           label = "Footnote: Data is plotted monthly, but labelled quarterly due to space",
           hjust = 0, vjust = 1, size = 3.5, color = "grey50")
```



‘‘‘

Talk more about it.

And also planes (**?@fig-planes**). (You can change the height and width, but don't worry about doing that until you have finished every other aspect of the paper - Quarto will try to make it look nice and the defaults usually work well once you have enough text.)

Talk way more about it.

3 Results

Our results are summarized in **?@tbl-modelresults**.

4 Discussion

4.1 First discussion point

If my paper were 10 pages, then should be be at least 2.5 pages. The discussion is a chance to show off what you know and what you learnt from all this.

4.2 Second discussion point

4.3 Third discussion point

4.4 Weaknesses and next steps

5 Limitations and Next Steps

Weaknesses and next steps should also be included.

Appendix

.1 Diagnostics

?@fig-stanareyouokay-1 is a trace plot. It shows… This suggests…

?@fig-stanareyouokay-2 is a Rhat plot. It shows… This suggests…

References

Horst, Allison Marie, Alison Presmanes Hill, and Kristen B Gorman. 2020. *Palmerpenguins: Palmer Archipelago (Antarctica) Penguin Data*. https://doi.org/10.5281/zenodo.3960218.

R Core Team. 2023. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.

Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Grolemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. https://doi.org/10.21105/joss.01686.