When and Where: Examining Crisis Service Calls in Toronto*

A Detailed Look at Temporal and Spatial Trends in Crisis Response Calls

Xinxiang Gao

September 24, 2024

First sentence. Second sentence. Third sentence. Fourth sentence.

1 Introduction

R Core Team (2023), Wickham et al. (2019), Wickham (2016), Wilke (2024), Auguie (2017)
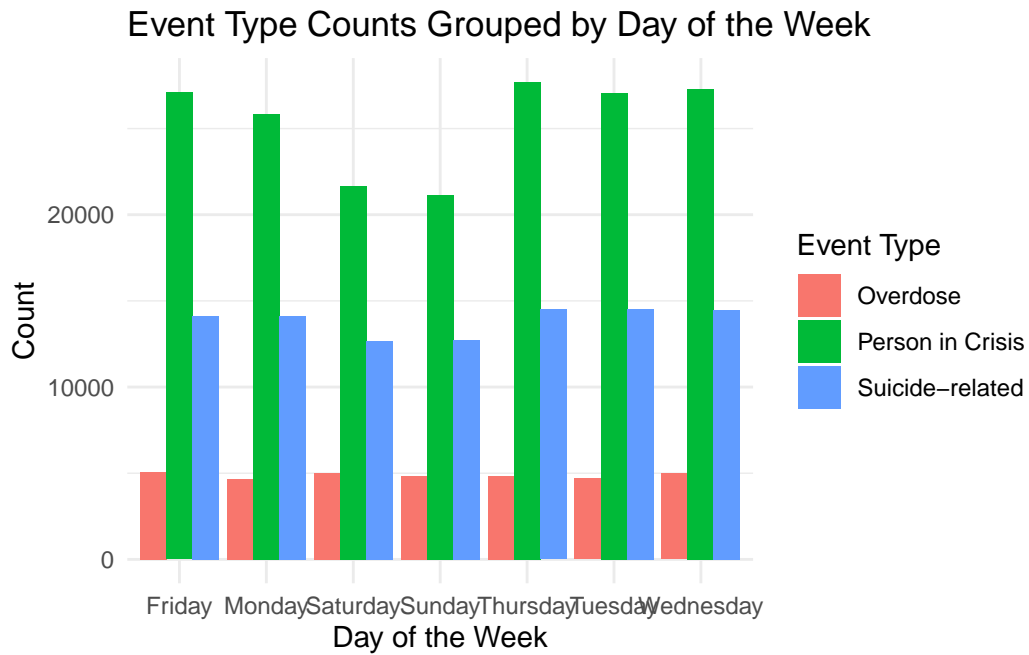
Gelfand (2022)

Figure 1: Event Type Counts Grouped by Day of the Week
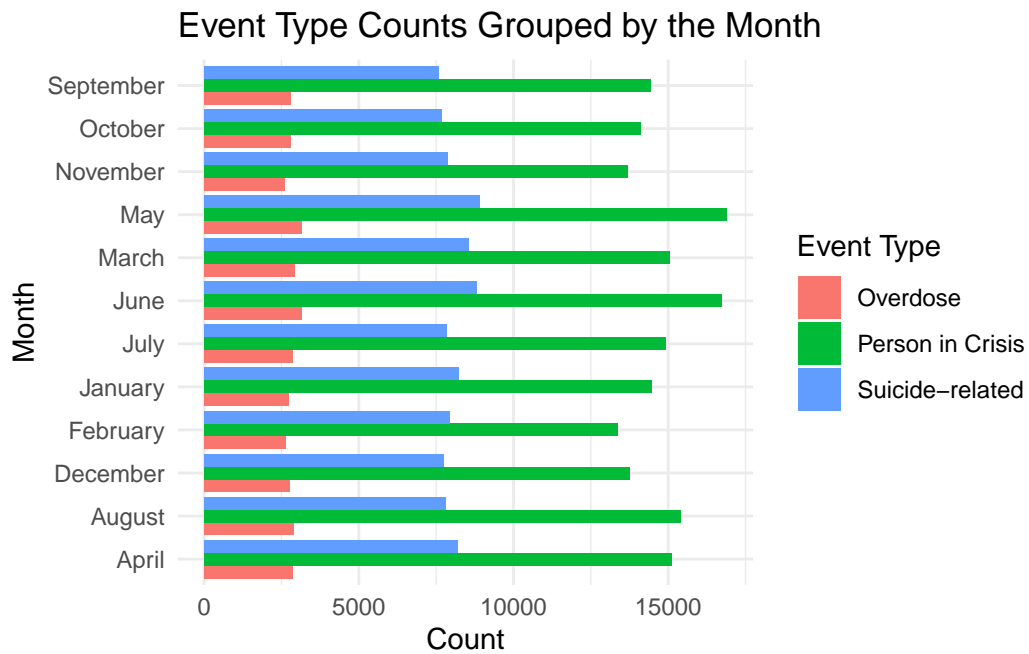

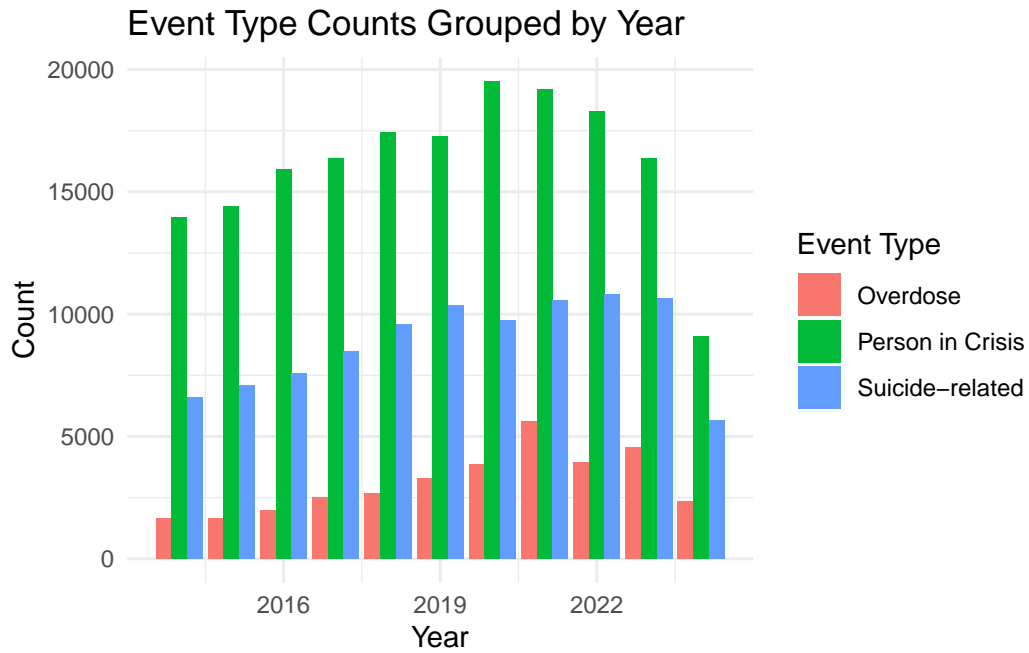Figure 2: Event Type Counts Grouped by the Month
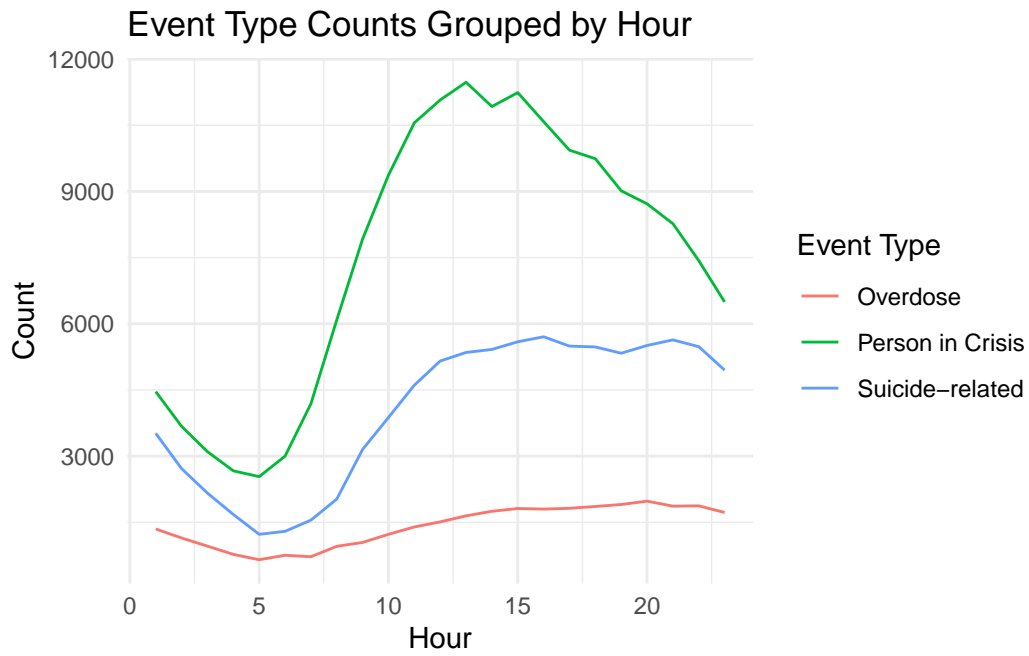
Figure 3: Event Type Counts Grouped by Year
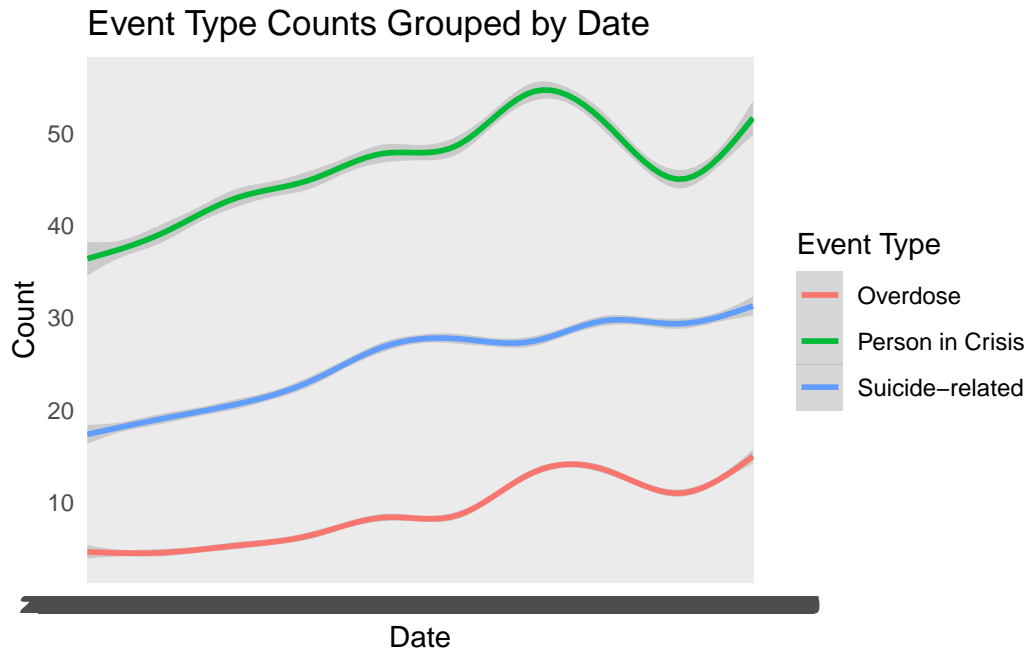

Figure 4: Event Type Counts Grouped by Hour of the Day
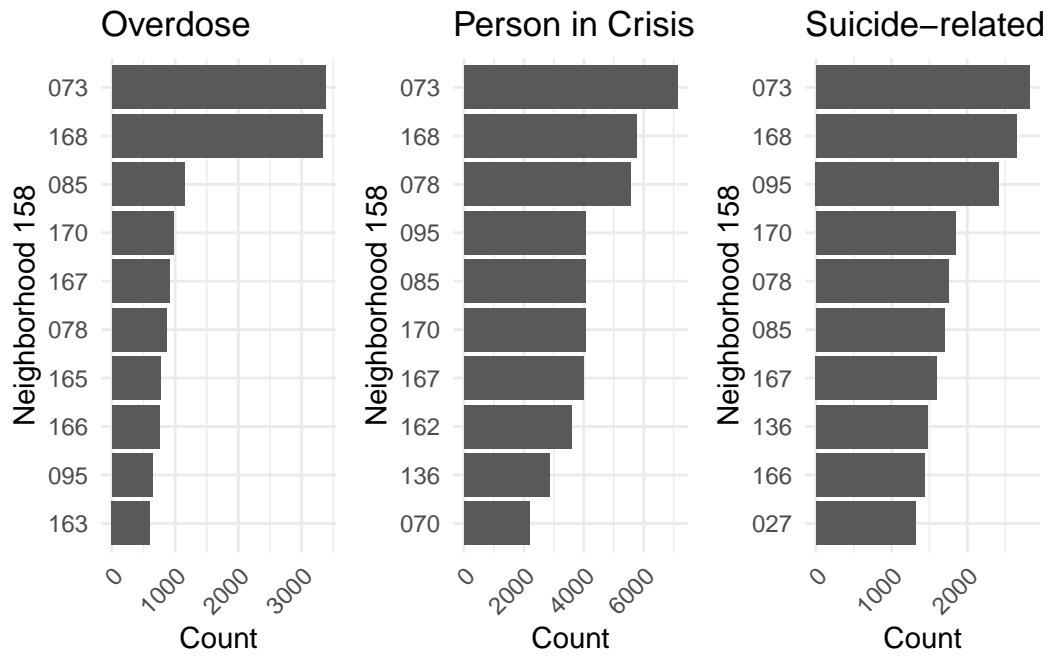
Figure 5: Event Type Counts Grouped by Date

Figure 6: Event Counts in Neighbourhood Grouped by Event Type

2 Data

1	027	York University Heights (27)
2	070	South Riverdale (70)
3	073	Moss Park (73)
4	078	Kensington–Chinatown (78)
5	085	South Parkdale (85)
6	095	Annex (95)
7	136	West Hill (136)
8	162	West Queen West (162)
9	163	Fort York–Liberty Village (163)
10	165	Harbourfront–CityPlace (165)
11	166	St Lawrence–East Bayfront–The Islands
12	167	Church–Wellesley (167)
13	168	Downtown Yonge East (168)

Figure 7: A Look-up Table for Hood Number and Hood Name

References

Auguie, Baptiste. 2017. *gridExtra: Miscellaneous Functions for "Grid" Graphics.* https://CRAN.R-project.org/package=gridExtra.

Gelfand, Sharla. 2022. *Opendatatoronto: Access the City of Toronto Open Data Portal.* https://CRAN.R-project.org/package=opendatatoronto.

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. 2016. *Ggplot2: Elegant Graphics for Data Analysis.* Springer-Verlag New York. https://ggplot2.tidyverse.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.

Wilke, Claus O. 2024. *Cowplot: Streamlined Plot Theme and Plot Annotations for 'Ggplot2'.* https://CRAN.R-project.org/package=cowplot.