

# Death Registry Analysis\*

My subtitle if needed

Chloe Thierstein

24 January 2023

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

## Introduction

{two or three paragraphs of content. and there should be an additional final paragraph that sets out the remainder of the paper}

You can and should cross-reference sections and sub-sections. For instance, Section @ref(data). Quarto automatically makes the sections lower case and adds a dash to spaces to generate labels, for instance, Section @ref(first-discussion-point).

“This dataset includes information relating to the registration of deaths documented by Registry Services staff located in four of the civic centres (Scarborough, North York, Toronto and Etobicoke). Registration of death data is entered into the Registry Services Tracking System (RSTS), from which aggregate statistical information is generated to create the dataset. The dataset resides in an Oracle database in the City’s environment.

The dataset is created in support of the Vital Statistics Act, which is a Provincial legislation. The dataset also supports the City’s operational requirements and business functions.” (Gelfand 2022)

“\_id = unique row identifier for Open Data database

civic\_centre = civic centre code

death\_licenses = number of deaths registered in the month

place\_of\_death = place where death occurred

time\_period = month death registered” (Gelfand 2022)

---

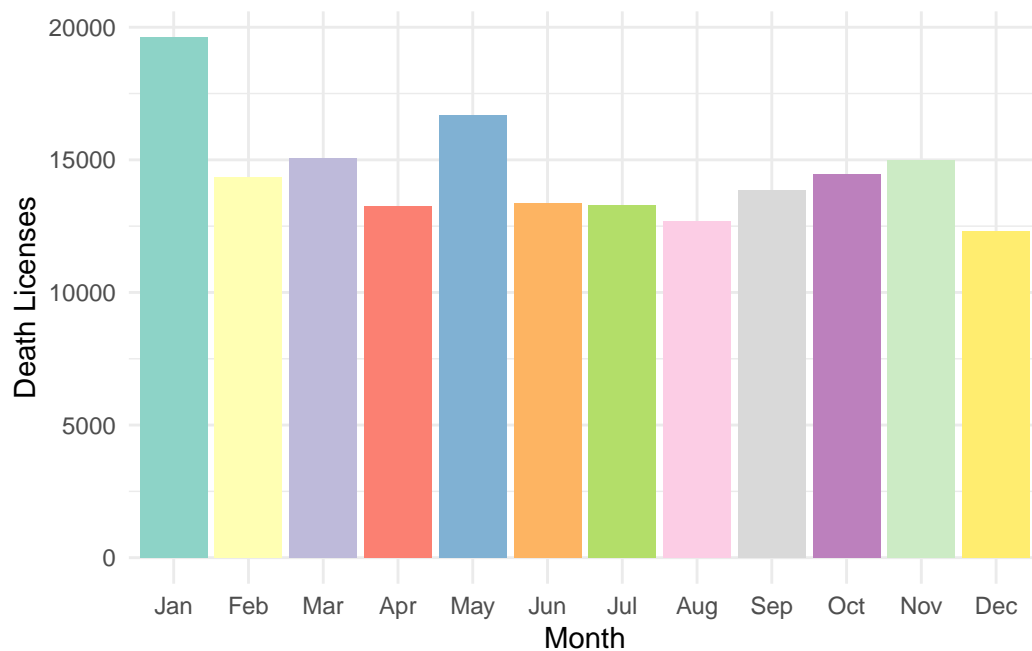
\*Code and data are available at: [https://github.com/cthierst/death\\_registry\\_analysis.git](https://github.com/cthierst/death_registry_analysis.git).

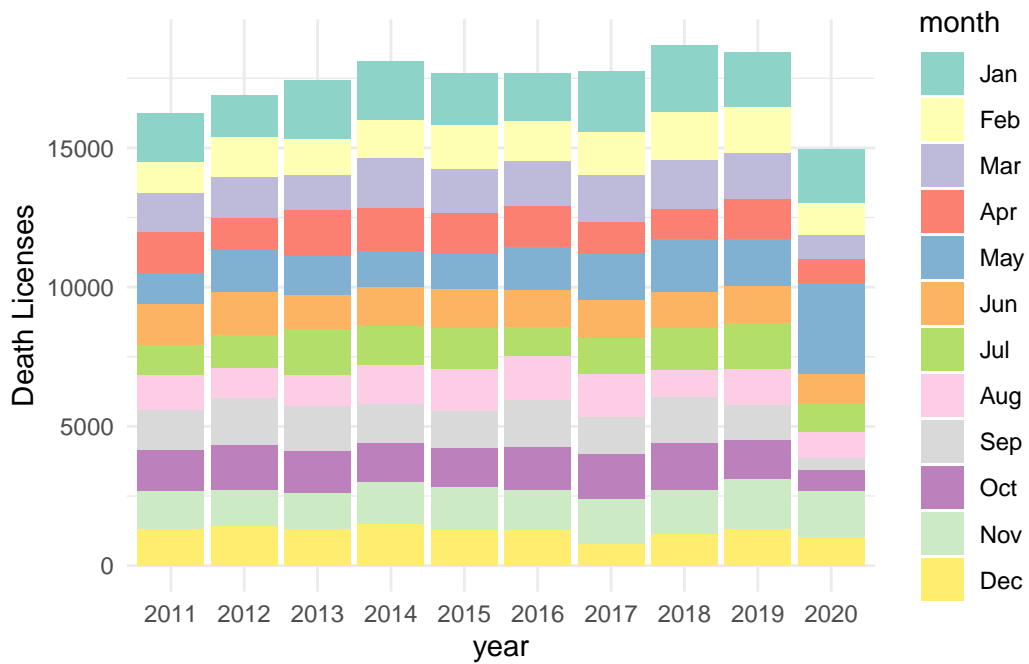
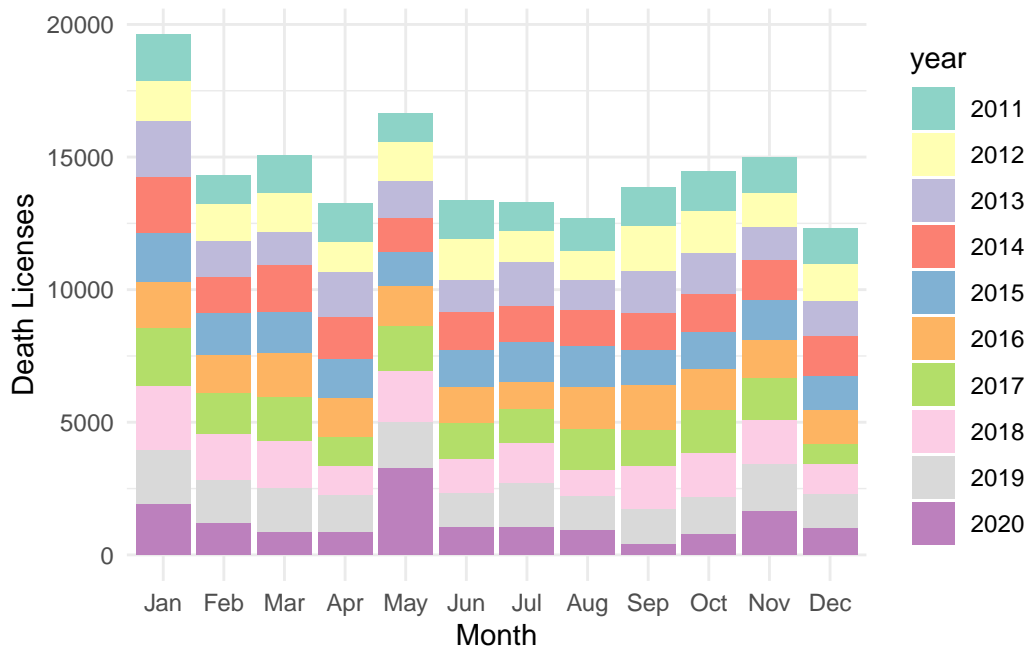
---

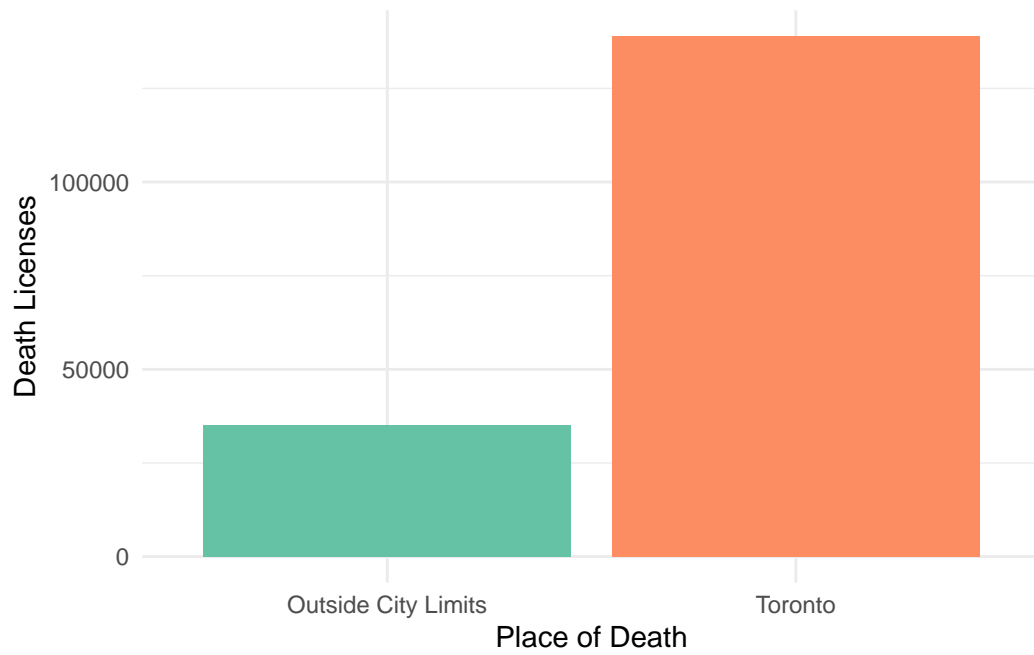
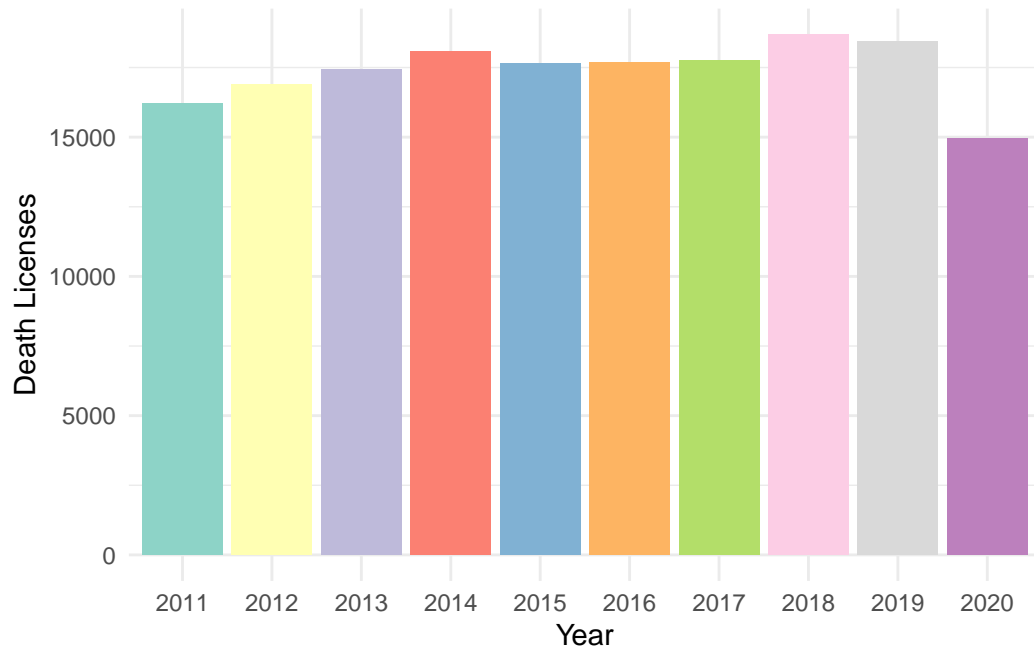
In this paper I will be analyzing death registry data from four civic centers in the greater Toronto area, Etobicoke, North York, Scarborough, and Toronto. First, I will compare rates of death registration from these civic centers over the period of 2011-2022. Next, I will compare rates of death registration against place of death in order to discuss the rate of deaths inside and outside the Toronto city limits. Finally, I will discuss trends in death registrations from each civic center. My analysis will be performed using R (R Core Team 2020), tidyverse (Wickham et al. 2019), janitor (Firke 2021), and dplyr (Wickham et al. 2022) packages. All figures in my paper have been created using ggplot2 (Wickham 2016) and tables have been created with \_\_\_\_\_

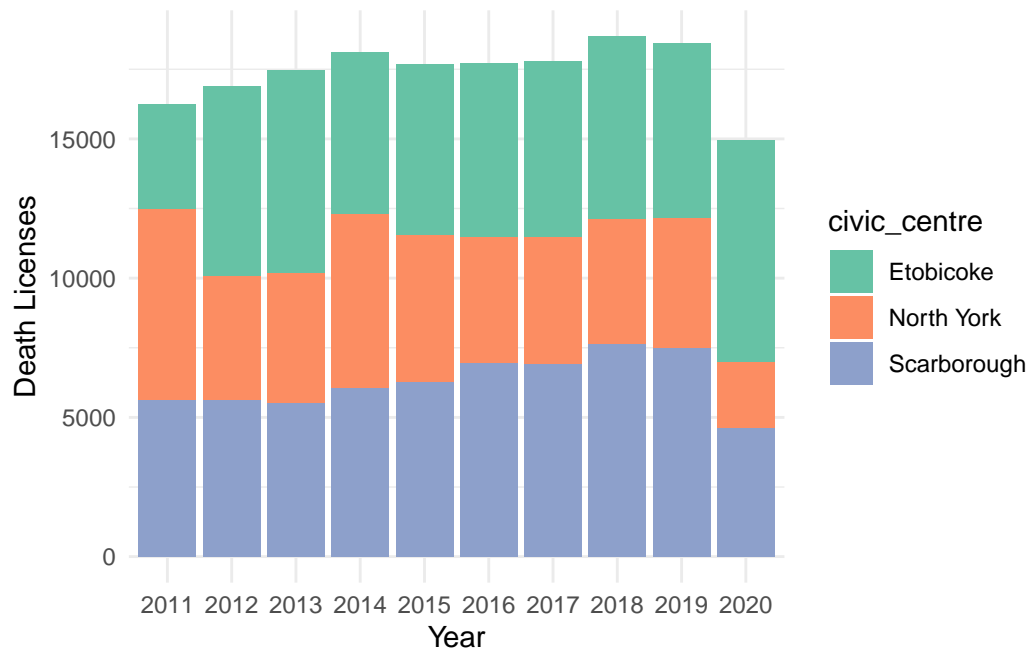
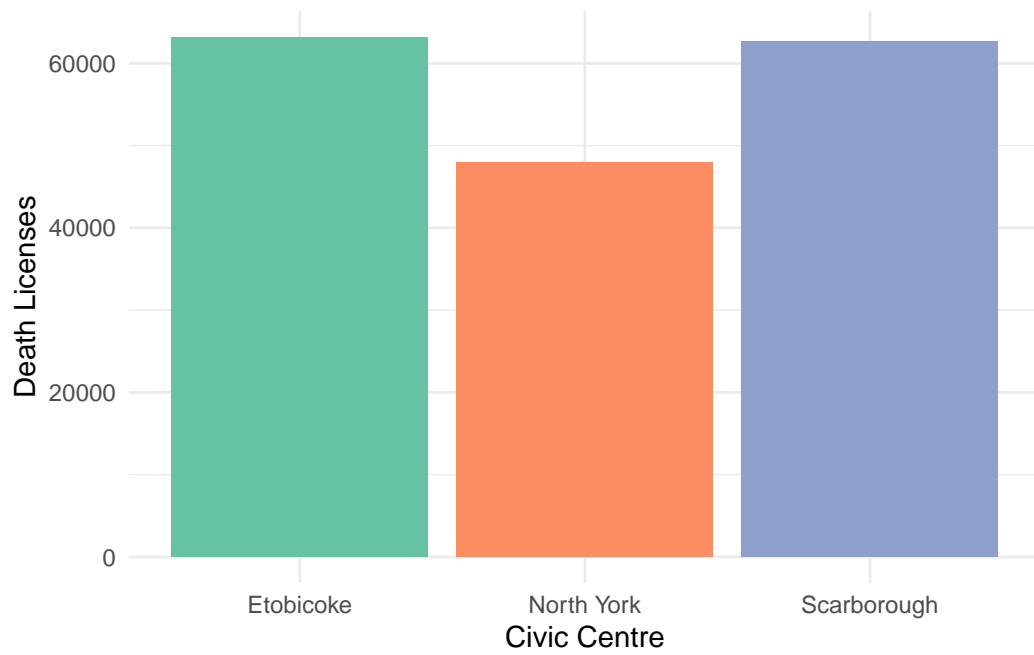
## Data

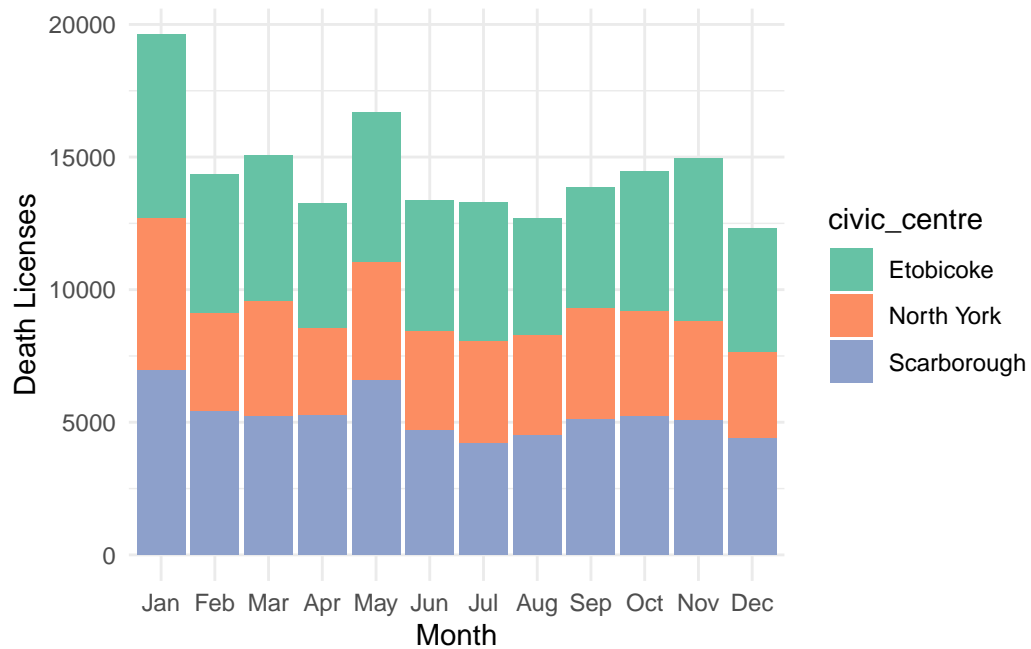
data section should thoroughly and precisely discuss the source of the data and the bias this brings (ethical, statistical, and otherwise). comprehensively describe and summarize the data using text, graphs, and tables must be made iwth knitr or gt. graphs must show the actual data, or as close to it as possible, not summary statistics. (Graphs and tables should be cross-references in the text e.g., ‘Table 1 shows...’)











Talk more about it.

Also bills and their average . (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.)

Talk way more about it.

## References

references should be added using BibTeX. be sure to reference R and any R packages you use, as well as the dataset. strong submissions will draw on related literature and reference those.

----

- Firke, Sam. 2021. *Janitor: Simple Tools for Examining and Cleaning Dirty Data*. <https://CRAN.R-project.org/package=janitor>.
- Gelfand, Sharla. 2022. *Opendatatoronto: Access the City of Toronto Open Data Portal*. <https://CRAN.R-project.org/package=opendatatoronto>.
- R Core Team. 2020. *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 Golemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. <https://doi.org/10.21105/joss.01686>.
- Wickham, Hadley, Romain François, Lionel Henry, and Kirill Müller. 2022. *Dplyr: A Grammar of Data Manipulation*. <https://CRAN.R-project.org/package=dplyr>.