

alexsohn1126 / food\_bank\_usage\_toronto

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# Code Review #1

Open

 julia-ve-kim opened this issue 49 minutes ago · 0 comments

julia-ve-kim commented 49 minutes ago · edited Collaborator

food\_bank\_usage\_toronto

The name of the GitHub Repo is descriptive, immediately giving a sense of its contents & code. You might wish to make this repository *public*, so that the graders are able to examine the work and this GitHub Issue, and revert it to *private* once the grading is finalised. In the **About** section of the Repo, you may wish to put a brief description such as "Contains a reproducible Quarto file that downloads a dataset about food bank usage in Toronto, cleans it and makes a graph...".

README.md

The goals and structure of the repository were detailed well in the `README.md` . Though the structure of the GitHub Repo is sufficiently clear, you might wish to

- file `toronto_foodbank_paper.pdf` and `toronto_foodbank_paper.qmd` under `/outputs/paper`
- file `figures` under `/inputs`

I am not certain whether the `.gitignore` file is necessary for this repository.

toronto\_foodbank\_paper.pdf

It is helpful that your paper begins with an abstract, giving a high-level overview of the purpose of the research, its motives and its results. The date at the top is left "invalid"— you might wish to double check this.

The project closely follows methods mentioned in *Telling Stories with Data* Alexander (2024).

You should revisit your `@drinking_from` in `bibliography.bib` to ensure that this citation is done as (Alexander 2023). What worked for me was:

```
@book{Rohan,
  title    = "Telling Stories with Data with Applications in R",
  author   = "Alexander, Peter",
  year     = 2023,
  publisher = "Chapman & Hall",
  isbn     = "9781032134772",
  url      = {https://tellingstorieswithdata.com/},
}
```

I have used R version 4.3.2. and a library called Tidyverse to create this simulation (R Core Team) (Wickham et al. 2019).

Proper in-text citation syntax would require "I have used R version 4.3.2. (R Core Team) and a library called Tidyverse (Wickham et al. 2019) to create this simulation."

We downloaded the dataset from Toronto's data dashboard (Toronto 2023). ... It could be that Canada is growing in population at its highest rate since 1957 (Canada 2023).

Your **Share** summarises well the purpose, results and conclusions of the research, but again there are a few mistakes with citation. Toronto should really be "City of Toronto" and Canada "Statistics Canada." In `citations.bib` , you can avoid this mishap by putting `name = {{City of Toronto}}` in lieu of `name = {City of Toronto}` and `name = {{Statistics Canada}}` in lieu of `name = {Statistics Canada}` . Also, `n.d` (standing for `no date` ) should not be the name of the author— According to [EasyBib](#), "when there isn't a known author, use the source's title in the in-text citation", so you should put instead `Daily Bread Food Bank` .

Data was cleaned using programming language R (R Core Team 2023) and a package in R called `tidyverse` (Wickham et al. 2019).

You should also reference your use of the `janitor` and `lubridate` packages.

## /scripts/00-simulate\_data.R

```
#### Workspace setup ####
# Load packages
library(tidyverse)
```



You should install and load *all* packages you need to use in the Workspace setup. In this case, you should also include `library(janitor)`, `library(lubridate)`.

## /scripts/01-clean\_data.R

You might wish to separate this `.R` script into two chunks, one responsible for downloading the data and the other for cleaning the data, with each script ending by saving the data as a `.csv` file in the desired folder.

```
clean_names(raw_data) |>
mutate(period = recode(period,
  Jan = 1,
  Feb = 2,
  Mar = 3,
  Apr = 4,
  May = 5,
  Jun = 6,
  Jul = 7,
  Aug = 8,
  Sep = 9,
  Oct = 10,
  Nov = 11,
  Dec = 12
)) |>
mutate(date = make_date(year, period, 1)) |>
select(date, visits = value) |>
filter(as.Date("2013-09-01") <= date & date <= as.Date("2023-09-01"))
```



This code looks very good, but you might wish to consider making it more efficient. A possible suggestion might be:

```
clean_names() |>
mutate(
  period = match(tolower(period), tolower(month.abb)),
  date = make_date(year, period, 1)
) |>
select(date, visits = value) |>
filter(between(date, as.Date("2013-09-01"), as.Date("2023-09-01"))).
```



Here, I combined the two `mutate` calls into one and used `between` in the `filter` call for better readability. To avoid writing out each month individually, I used a combination of the `month.abb` vector and the `match` function to achieve the same result—when re-run, it should produce a similar result!

```
head(cleaned_data)
```

`head` is helpful as a sanity check, but may result in the formal paper being cluttered. You might wish to uncomment this line. If you are displaying the `cleaned_data` as a table for the readers, you can format it more nicely using `kable` (see, for example, [Example 2.3](#) of *Telling Stories with Data*).

## /scripts/02-explore\_data.R

Something that *may* be useful before plotting your data as a graph is to handle possibly missing values in the dataset. You can do this as follows:

```
# Check for missing values
summary(cleaned_data)

# If needed, handle missing values
cleaned_data <- na.omit(cleaned_data)
```



Also, you appear to be plotting the monthly visits to foodbanks in Toronto.

```
cleaned_data |>
ggplot(aes(x = date, y = visits)) +
  geom_point() +
  labs(x = "Date",
```



```
y = "Monthly Visits to the Food Bank") +
theme_minimal() +
scale_y_continuous(labels = scales::comma_format()) +
expand_limits(y = 0)
```

However, when this graph is displayed, only *years* (2014, 2016, 2018, 2020, 2022, 2024) appear on the x-axis of the plot— you need instead individual months (Jan, Feb, March...) to appear. You might wish to consider how individual months can appear on the x-axis for the years 2013-2023 without the graph becoming overcluttered.



Assignees



No one—[assign yourself](#)

Labels



None yet

Projects



None yet

Milestone



No milestone

Development



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1 participant



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