

# Anna tutorial week 3

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```
### Preamble ###  
#Purpose:Provide a glimpse at Toronto's marriage license registration situation.  
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```

## Github

Github repository link is <https://github.com/annadlli/STA304-week3tutorial.git>

## Context about dataset

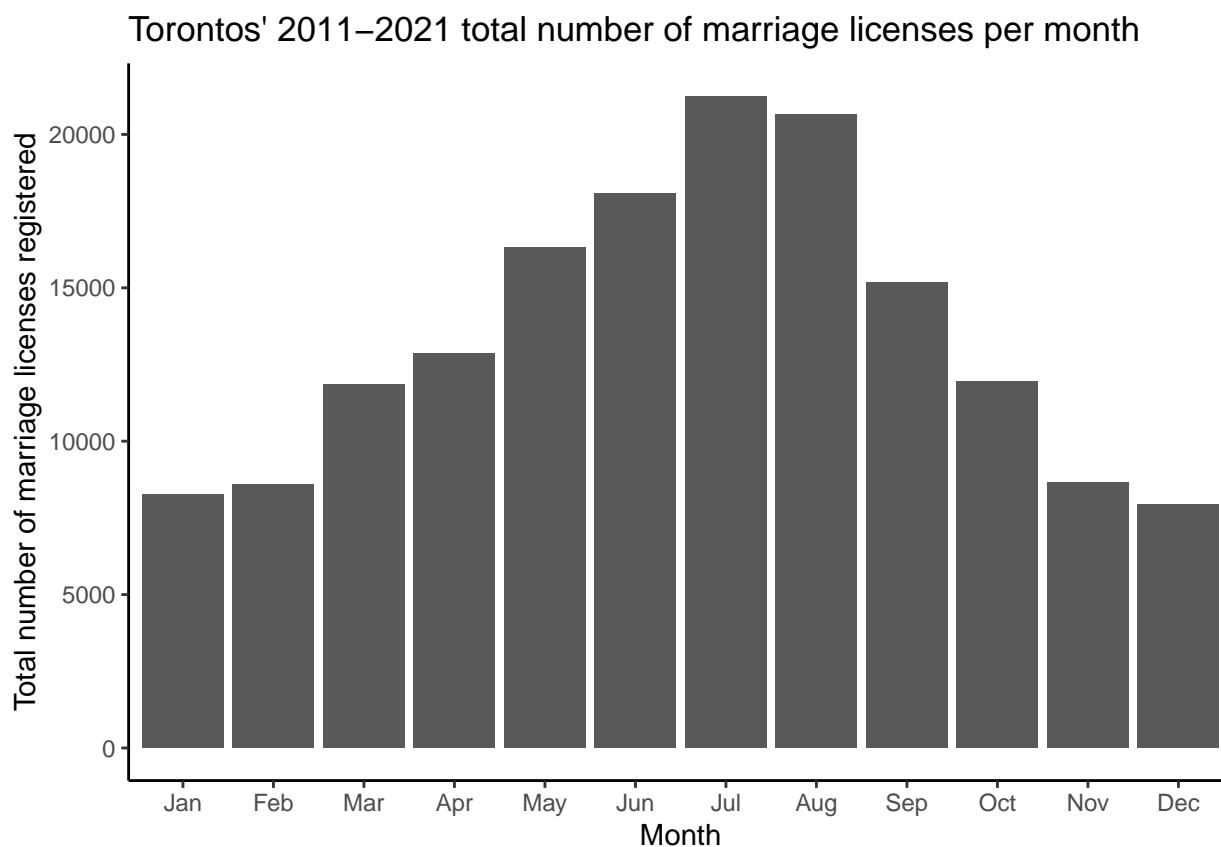
The dataset is released by the City Clerk's Office for the City of Toronto. It compiles information from 2011-01 to 2021-12 regarding marriage license statistics for Toronto. It compiles data from the 4 Civic Centres located in Scarborough, Etobicoke, North York, and Toronto.

```
#get and clean dataset  
dataset <- list_package_resources("e28bc818-43d5-43f7-b5d9-bdfb4eda5feb") |> get_resource()  
head(dataset)
```

```
## # A tibble: 6 x 4  
##   `id` CIVIC_CENTRE MARRIAGE_LICENSES TIME_PERIOD  
##   <int> <chr>          <dbl> <chr>  
## 1 14027 ET              80 2011-01  
## 2 14028 NY             136 2011-01  
## 3 14029 SC             159 2011-01  
## 4 14030 TO             367 2011-01  
## 5 14031 ET             109 2011-02  
## 6 14032 NY             150 2011-02
```

```
cleaned_dataset<- dataset %>% clean_names() |> select(marriage_licenses,time_period) |>  
  mutate(time_period = ym(time_period)) |>  
  mutate(time_period = as.integer(month(time_period)))
```

```
#Create graph  
cleaned_dataset |> group_by(time_period) |>  
  summarize(sum = sum(marriage_licenses)) |>  
  mutate(time_period = month.abb[time_period]) |>  
ggplot(aes(x=time_period, y=sum)) +  
  geom_col() +  
  labs(x="Month",y= "Total number of marriage licenses registered",  
       title ="Torontos' 2011-2021 total number of marriage licenses per month")+  
  scale_x_discrete(limits = month.abb)+  
  theme_classic()
```



## Citations

R Core Team (2021). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL <https://www.R-project.org/>.

Sharla Gelfand (2020). opendatatoronto: Access the City of Toronto Open Data Portal. R package version 0.1.4. <https://CRAN.R-project.org/package=opendatatoronto>