

draft

```
library(opendatatoronto)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
# get package
package <- show_package("4db2d9d9-6590-41e6-bf2b-b9188436d044")
package
```

```
## # A tibble: 1 x 11
##   title      id      topics civic_issues publisher excerpt dataset_category
##   <chr>      <chr>    <chr>  <chr>      <chr>    <chr>    <chr>
## 1 Wellbeing Y~ 4db2d9d9--~ <NA>  <NA>      <NA>    <NA>    <NA>
## # ... with 4 more variables: num_resources <int>, formats <chr>,
## #   refresh_rate <chr>, last_refreshed <date>
```

```
# get all resources for this package
resources <- list_package_resources("4db2d9d9-6590-41e6-bf2b-b9188436d044")
```

```
# identify datastore resources; by default, Toronto Open Data sets datastore resource format to CSV for
datastore_resources <- filter(resources, tolower(format) %in% c('csv', 'geojson'))
```

```
# load the first datastore resource as a sample
data <- filter(datastore_resources, row_number()==1) %>% get_resource()
data
```

```
## Simple feature collection with 56 features and 24 fields
## Geometry type: POINT
## Dimension: XY
## Bounding box: xmin: -79.5987 ymin: 43.61687 xmax: -79.23288 ymax: 43.80576
## Geodetic CRS: WGS 84
## # A tibble: 56 x 25
##   `_id` OBJECTID AGENCY_NAME ORGANIZATION_AD~ NEIGHBOURHOOD OFFICE_PHONE EMAIL
##   <int>   <int> <chr>      <chr>      <chr>      <chr>      <chr>
## 1     1     1142 Toronto Men~ 661 Yonge St, 4~ Church-Yonge~ 416-640-1934 info~
## 2     2     1269 Alcoholics ~ 234 Eglinton Av~ Mount Pleasa~ Support Lin~ offi~
## 3     3     1270 Toronto Dru~ Old City Hall, ~ Bay Street C~ 416-973-131~ <NA>
## 4     4     1271 Alpha House 647 Broadview A~ North Riverd~ 416-469-1700 alph~
## 5     5     1272 Bellwood He~ 1020 McNicoll A~ Steeles, 116 416-495-0926 info~
## 6     6     1273 Scarborough~ 1225 Kennedy Rd~ Dorset Park,~ 416-431-8135 <NA>
```

```
## 7      7      1274 Salvation A~ 2085 Ellesmere ~ Woburn, 137  416-431-4379 caro~
## 8      8      1275 William Osl~ 101 Humber Coll~ West Humber~~ 416-494-212~ <NA>
## 9      9      1276 St Michael'~ 73 Regent Park ~ Regent Park,~ Registered ~ suma~
## 10     10     1278 Good Shephe~ 412 Queen St E,~ Regent Park,~ 416-869-3619 <NA>
## # ... with 46 more rows, and 18 more variables: WEBSITE <chr>,
## #   ELIGIBILITY <chr>, DESCRIPTION_SERVICE <chr>, APPLICATION <chr>,
## #   LANGUAGES <chr>, ACCESSIBILITY <chr>, HOURS <chr>, LEGAL_STATUS <chr>,
## #   DATE_UPDATED <chr>, ADDRESS_POINT_ID <int>, X <lgl>, Y <lgl>,
## #   LONGITUDE <lgl>, LATITUDE <lgl>, ADDRESS_FULL <chr>, MUNICIPALITY <chr>,
## #   POSTAL_CODE <chr>, geometry <POINT [°]>
```

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.5      v purrr 0.3.4
## v tibble 3.1.6       v stringr 1.4.0
## v tidyr 1.1.4        v forcats 0.5.1
## v readr 2.1.1
```

```
## Warning: package 'tibble' was built under R version 4.1.2
```

```
## Warning: package 'tidyr' was built under R version 4.1.1
```

```
## Warning: package 'readr' was built under R version 4.1.2
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
```

```
## x dplyr::lag() masks stats::lag()
```

```
library(janitor)
```

```
##
```

```
## Attaching package: 'janitor'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##   chisq.test, fisher.test
```

```
library(tidyr)
```

```
library(knitr)
```

```
## Warning: package 'knitr' was built under R version 4.1.2
```

```
cleaned_data <- clean_names(data)
```

```
cleaned_data <- cleaned_data %>% drop_na(neighbourhood)
```

```
cleaned_data <-
  cleaned_data |>
  select(neighbourhood
  )
```

```
counted_data <-
  cleaned_data |>
  count(neighbourhood)
```

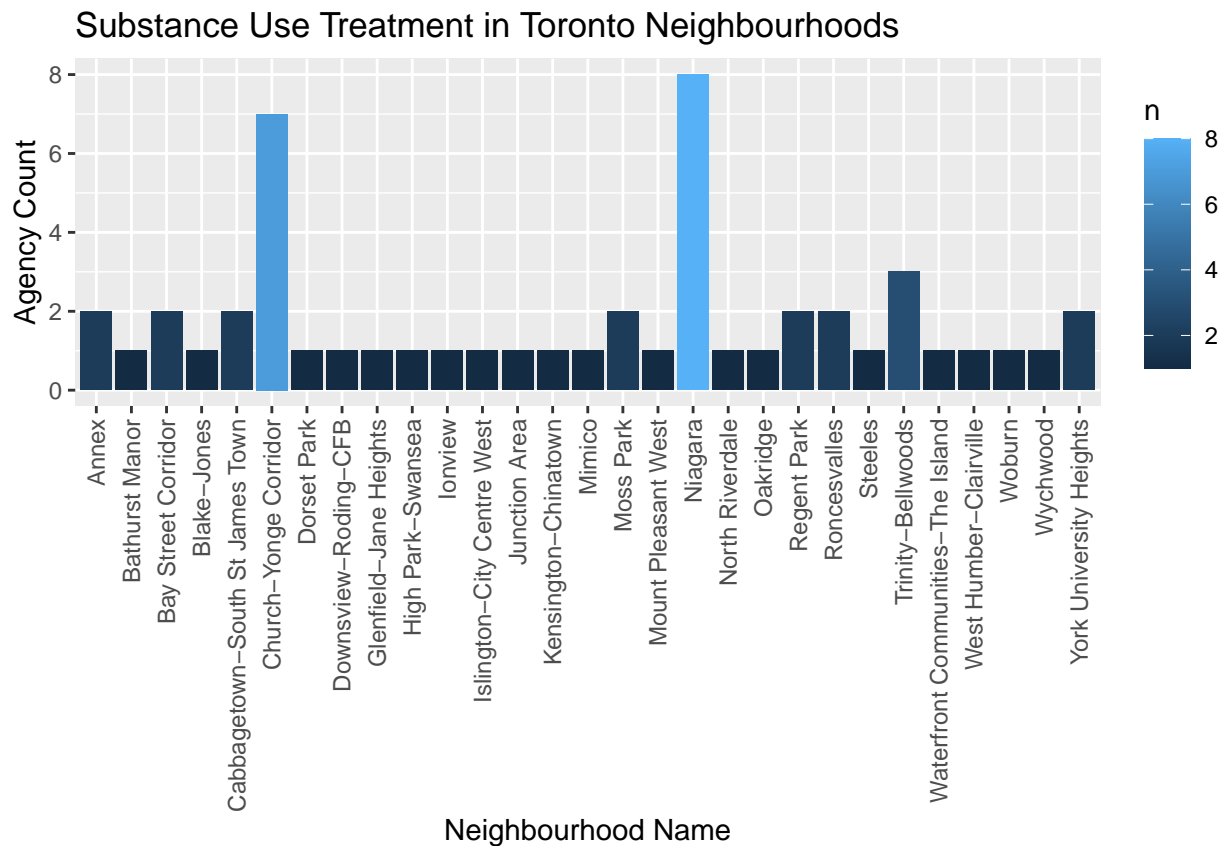
```
counted_data <-
  counted_data |>
```

```

separate(col = neighbourhood,
         into = c('neighbourhood', 'numeric'),
         sep = ',') |>
select(-numeric)

counted_data |>
ggplot(mapping = aes(x = neighbourhood, y = n, fill = n)) +
  geom_bar(stat="identity") +
  labs(title = "Substance Use Treatment in Toronto Neighbourhoods",
       x = "Neighbourhood Name",
       y = "Agency Count") +
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1)
)

```



```

table <- counted_data |>
  kable(caption = "Substance Use Treatment in Toronto Neighbourhoods",
        col.names = c("Neighbourhood Name", "Agency Count"),
        digits = 1,
        booktabs = TRUE,
        linesep = "")
table

```

Table 1: Substance Use Treatment in Toronto Neighbourhoods

Neighbourhood Name	Agency Count
Annex	2
Bathurst Manor	1

Neighbourhood Name	Agency Count
Bay Street Corridor	2
Blake-Jones	1
Cabbagetown-South St James Town	2
Church-Yonge Corridor	7
Dorset Park	1
Downsview-Roding-CFB	1
Glenfield-Jane Heights	1
High Park-Swansea	1
Ionview	1
Islington-City Centre West	1
Junction Area	1
Kensington-Chinatown	1
Mimico	1
Moss Park	2
Mount Pleasant West	1
Niagara	8
North Riverdale	1
Oakridge	1
Regent Park	2
Roncesvalles	2
Steeles	1
Trinity-Bellwoods	3
Waterfront Communities-The Island	1
West Humber-Clairville	1
Woburn	1
Wychwood	1
York University Heights	2