Testing our data wrangling

2023-04-20

Loading Libraries and Data

First, we load our libraries:

```
# For data wrangling
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.4.0     v purrr   1.0.1
## v tibble  3.1.8     v dplyr   1.1.0
## v tidyr   1.3.0     v stringr 1.5.0
## v readr   2.1.3     v forcats 1.0.0
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
# For testing our map data
library(mapview)
```

```
## Warning: package 'mapview' was built under R version 4.2.3
```

Next, we read our csv files:

```
# Wendy
# Load map data
restaurantmap_full <- read_csv("data/restaurantmap.csv", show_col_types = FALSE)
```

```
## New names:
## * `` -> `...1`
```

```
# Cora
# Load nutrition info
nutritioninfo <- read_csv("data/fastfood.csv", show_col_types = FALSE)%>%
  # Remove unnecessary data
  select(restaurant, item, calories, total_fat, protein, cholesterol, sodium, total_carb, sugar)
```

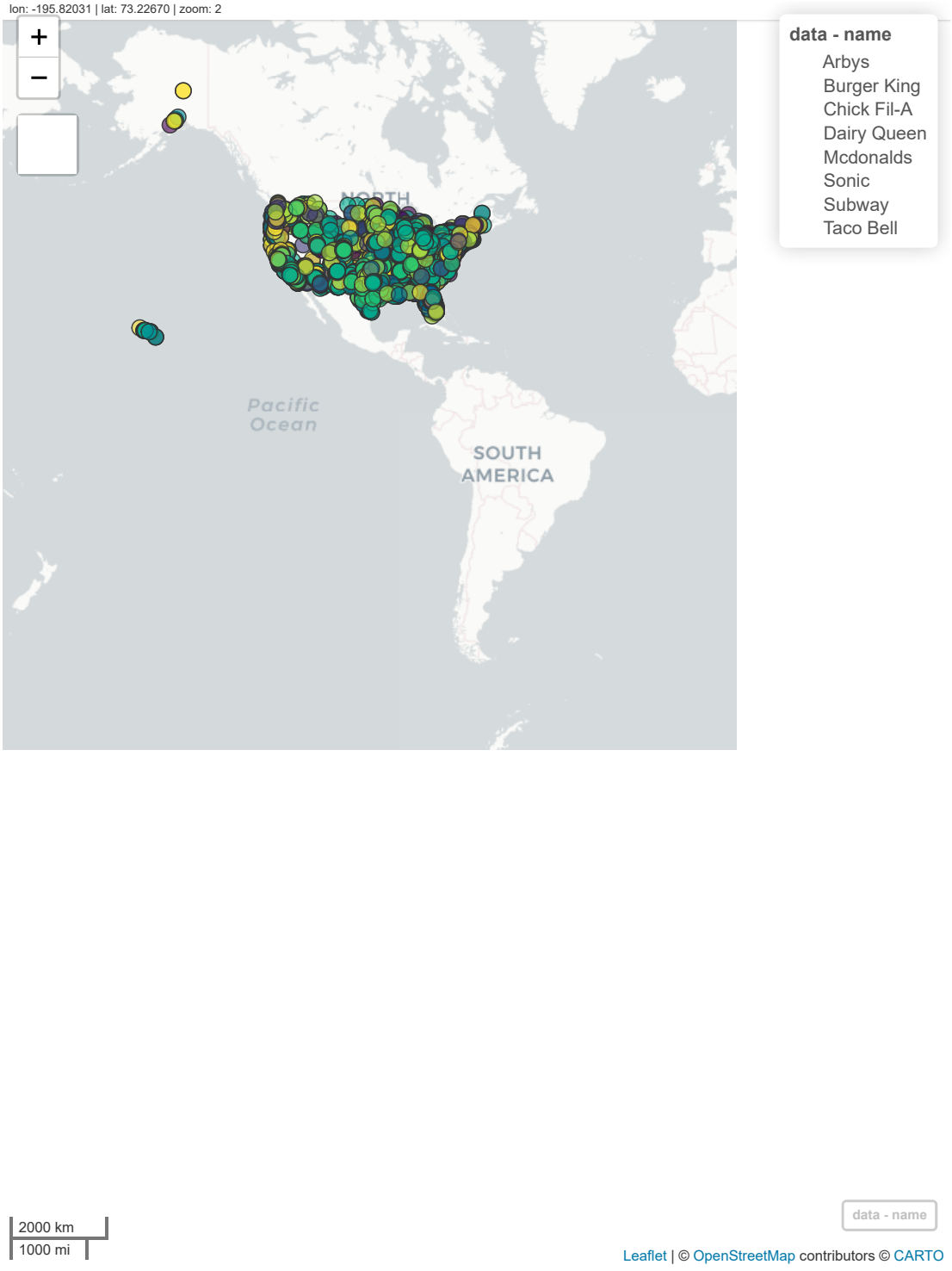
Data Wrangling

Wrangling our restaurant map locations data:

```r
# Wendy
# Wrangling our map data
restmap <- restaurantmap_full %>%
  # Remove unnecessary columns
  select(-c(websites, postalCode, country, categories, address, ...1)) %>%
  # Only keep the 8 restaurants that we have nutritional data
  filter(str_detect(name, regex('Mcdonald|Sonic|Taco Bell|Arby|Subway|Dairy Queen|Burger King|Chick-fil
  # Handle all variations of restaurant names so that all names are written the same way.
  mutate(name = case_when(str_detect(name, regex('Mcdonald', ignore_case = TRUE)) == TRUE ~ "Mcdonalds"
                          str_detect(name, regex('Sonic', ignore_case = TRUE)) == TRUE ~ "Sonic",
                          str_detect(name, regex('Taco Bell', ignore_case = TRUE)) == TRUE ~ "Taco Bell
                          str_detect(name, regex('Arby', ignore_case = TRUE)) == TRUE ~ "Arbys",
                          str_detect(name, regex('Subway', ignore_case = TRUE)) == TRUE ~ "Subway",
                          str_detect(name, regex('Dairy Queen', ignore_case = TRUE)) == TRUE ~ "Dairy Q
                          str_detect(name, regex('Burger King', ignore_case = TRUE)) == TRUE ~ "Burger
                          str_detect(name, regex('Chick-fil-a', ignore_case = TRUE)) == TRUE ~ "Chick F
                          TRUE ~ "Other"))
```

Let's make sure our map data set works!

```
## PhantomJS not found. You can install it with webshot::install_phantomjs(). If it is installed, pleas
```


lon: -195.82031 | lat: 73.22670 | zoom: 2
+
−
data - name
Arbys
Burger King
Chick Fil-A
Dairy Queen
Mcdonalds
Sonic
Subway
Taco Bell
Pacific Ocean
SOUTH AMERICA
2000 km
1000 mi
data - name
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