Task 3: Neighbourhoods

Data wrangling: part 1

```r
income_temp <- nbhood_profile %>%
  filter(grepl("Income",Category))
#ncol(income_temp)

income <- nbhood_profile %>%
  janitor::clean_names() %>%
  filter(grepl(1143, id)) %>%
  mutate_at(6:146,parse_number) %>%
  pivot_longer(-c(id,category,topic,data_source,characteristic),
               names_to = "neighbourhood_name", values_to = "percentage") %>%
  rows_delete(tibble(neighbourhood_name = "city_of_toronto")) %>%
  mutate(
    neighbourhood_name=str_to_lower(neighbourhood_name),
    neighbourhood_name=str_replace_all(neighbourhood_name, "_", " "),
    neighbourhood_name=str_replace_all(neighbourhood_name, "-", " ")
    ) %>%
  select(neighbourhood_name,id, percentage)
```

Data wrangling: part 2

```r
nbhood_raw_temp <- nbhood_raw %>%
  mutate(neighbourhood_name=str_to_lower(neighbourhood_name)) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "_", " ")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "-", " ")) %>%
  mutate(rate_per_100000=rate_per_100_000_people) %>%
  select(neighbourhood_name,neighbourhood_id,rate_per_100000) %>%
  mutate(neighbourhood_name= str_replace_all(neighbourhood_name, "\\.","")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "'", " ")) %>%
  rows_delete(tibble(neighbourhood_name = "missing address/postal code")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "/", " ")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "\\(|\\)", "")) %>%
  mutate(neighbourhood_name=str_replace(neighbourhood_name,
                                        "yonge stclair",
                                        "yonge st clair")) %>%
  mutate(neighbourhood_name=str_replace(neighbourhood_name,
                                        "standrew windfields",
                                        "st andrew windfields"))
# back and make data corrections

nbhoods_temp <- nbhoods_shape_raw %>%
  mutate(neighbourhood_name= str_remove(AREA_NAME, "\\s\\(\\d+\\)$")) %>%
  select(neighbourhood_name,AREA_ID) %>%
  mutate(neighbourhood_name=str_to_lower(neighbourhood_name)) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "_", " ")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "-", " ")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "\\.", " ")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "'", " ")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "/", " ")) %>%
  mutate(neighbourhood_name=str_replace_all(neighbourhood_name, "\\(|\\)", "")) %>%
```