

# Lab2\_Neudorf

Joshua Neudorf

April 19, 2020

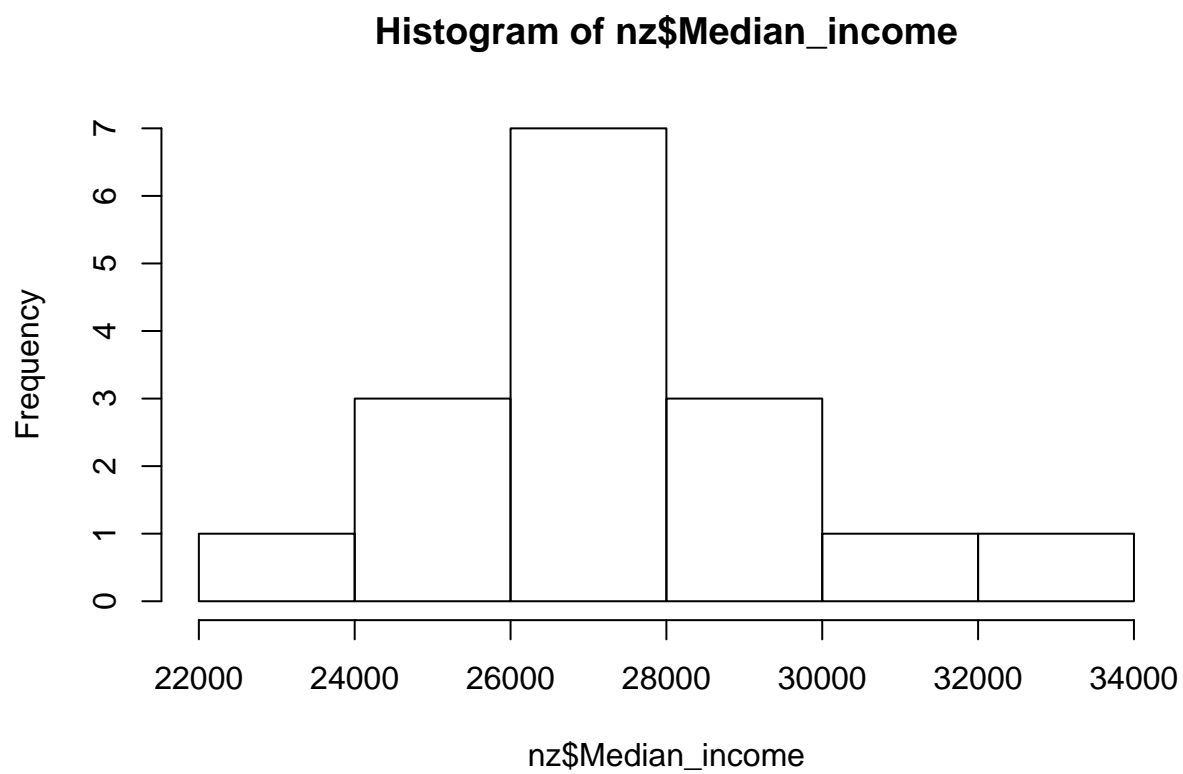
This document will analyze the nz dataset from spData with basic information about New Zealand.

First, Summary Statistics on the variables included in the dataset:

```
summary(nz)
```

```
##      Name           Island      Land_area      Population
## Length:16      Length:16      Min.   : 422.2      Min.   : 32400
## Class :character Class :character 1st Qu.: 8301.5      1st Qu.: 51325
## Mode  :character Mode  :character Median :12285.9      Median : 169750
##                                     Mean  :16505.5      Mean   : 299200
##                                     3rd Qu.:23409.1      3rd Qu.: 339950
##                                     Max.   :44504.5      Max.   :1657200
## Median_income      Sex_ratio      geom
## Min.   :23400      Min.   :0.9238      MULTIPOLYGON :16
## 1st Qu.:26000      1st Qu.:0.9346      epsg:2193     : 0
## Median :27050      Median :0.9477      +proj=tmerc...: 0
## Mean   :27375      Mean   :0.9518
## 3rd Qu.:29200      3rd Qu.:0.9613
## Max.   :32700      Max.   :1.0139
```

To go deeper, below is a histogram of median income per region. It is clear that the nationwide median is likely between 26000 and 28000.



This conclusion is then mapped, showing the regional disparities in income.

```
plot(nz["Median_income"])
```

