

# Lab2\_Neudorf

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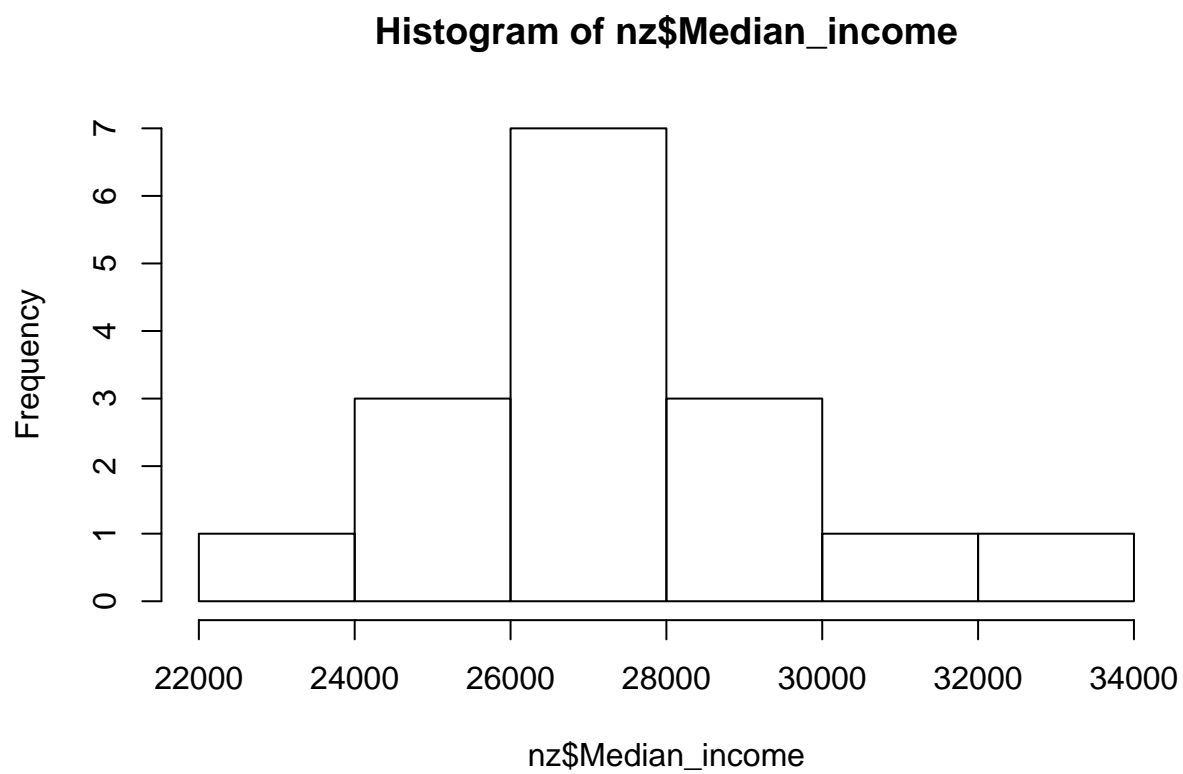
This document will analyze the nz dataset with basic information about New Zealand.

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"])
```

