Income mapping in the USA: Analysis

IncomeMapper

11/3/2020

```r
summary(params$data)
```

```
##       id             State_Code    State_Name     State_ab                County                  City
##  Min.   :   1026   Min.   :1     Alabama   :526   AL     :526   Autauga County  :463   Birmingham: 36
##  1st Qu.:1011213   1st Qu.:1     Alaska    :  0   AK     :  0   Mobile County   :  7   Mobile    : 30
##  Median :1021991   Median :1     Arizona   :  0   AR     :  0   Covington County:  4   Montgomery: 21
##  Mean   : 827392   Mean   :1     Arkansas  :  0   AZ     :  0   Jefferson County:  4   Huntsville: 18
##  3rd Qu.:1023304   3rd Qu.:1     California:  0   CA     :  0   Lee County      :  4   Gadsden   :  9
##  Max.   :1024616   Max.   :1     Colorado  :  0   CO     :  0   Chambers County :  3   Tuscaloosa:  9
##                                  (Other)   :  0   (Other):  0   (Other)         : 41   (Other)   :403
##       Type        Primary      Zip_Code        Area_Code       ALand                AWater
##  Track    :462   place: 64   Min.   :32506   205    :161   Min.   :        0   Min.   :        0   M:
##  City     : 31   Track:462   1st Qu.:35243   256    :152   1st Qu.:  6684250   1st Qu.:    15765   1:
##  Town     : 25               Median :35901   334    :136   Median : 28649942   Median :   222074   M:
##  CDP      :  8               Mean   :35885   251    : 75   Mean   :108921914   Mean   :  4596207   M:
##  Borough  :  0               3rd Qu.:36421   229    :  1   3rd Qu.:145888242   3rd Qu.:  1247727   3:
##  Community:  0               Max.   :39851   850    :  1   Max.   :973585771   Max.   :780526158   M:
##  (Other)  :  0                               (Other):  0
##       Mean            Median          Stdev           sum_w
##  Min.   :     0   Min.   :     0   Min.   :    0   Min.   :    0.0
##  1st Qu.: 38923   1st Qu.: 28821   1st Qu.:32987   1st Qu.:  250.3
##  Median : 50417   Median : 39943   Median :41334   Median :  377.5
##  Mean   : 53613   Mean   : 62771   Mean   :41726   Mean   :  742.8
##  3rd Qu.: 62610   3rd Qu.: 54479   3rd Qu.:49395   3rd Qu.:  624.0
##  Max.   :242857   Max.   :300000   Max.   :85800   Max.   :51243.7
##
```

States

```r
# Selected states
if(is.null(params$selState)){
  print('None selected')
}else{
  params$selState
}
```

```
## [1] "Alabama"
```

Counties

```r
# Selected counties
if(is.null(params$selCounty)){
  print('None selected')
}else{
  params$selCounty
}
```

```
## [1] "None selected"
```
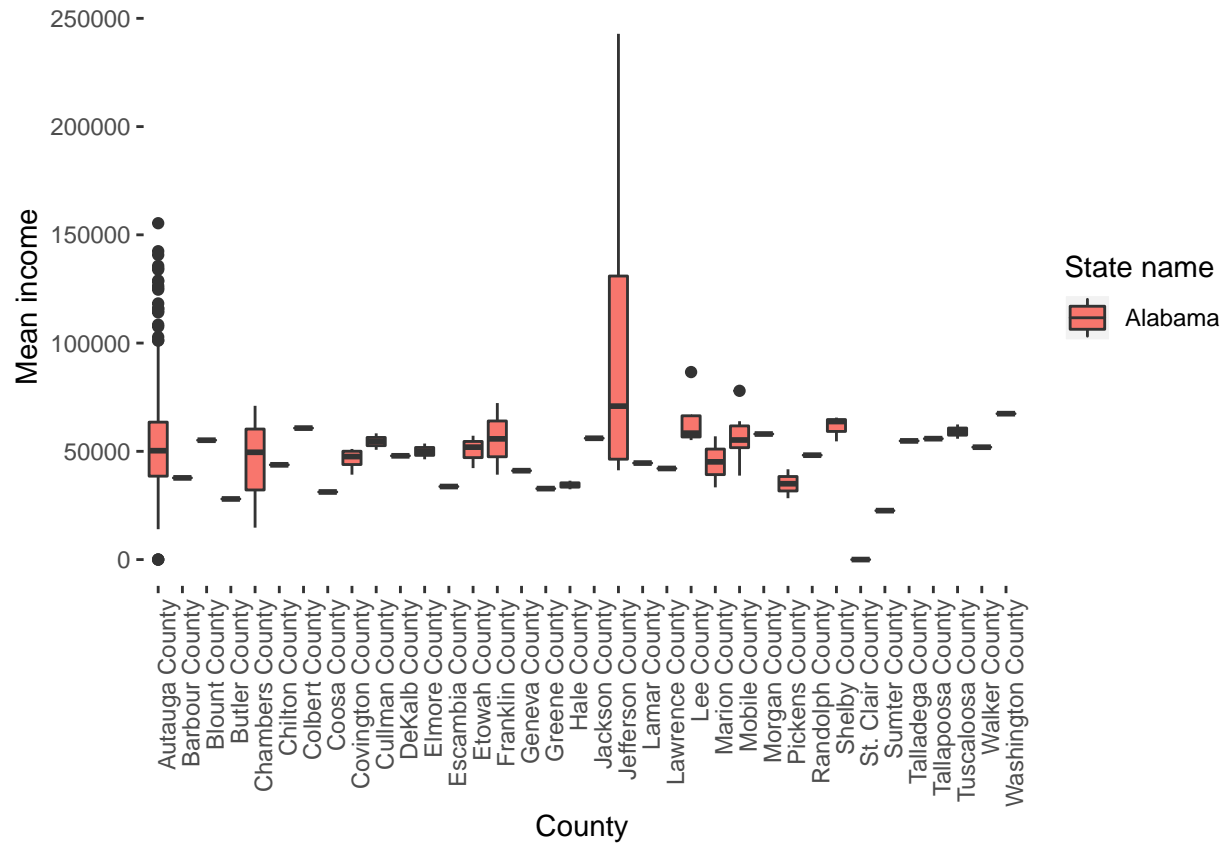
Income range

```r
# Min and max income selected
params$income_min
```

```
## [1] 0
```

```r
params$income_max
```

```
## [1] 242857
```

Boxplot of mean income by county

Bar plot of standard deviation in income by county