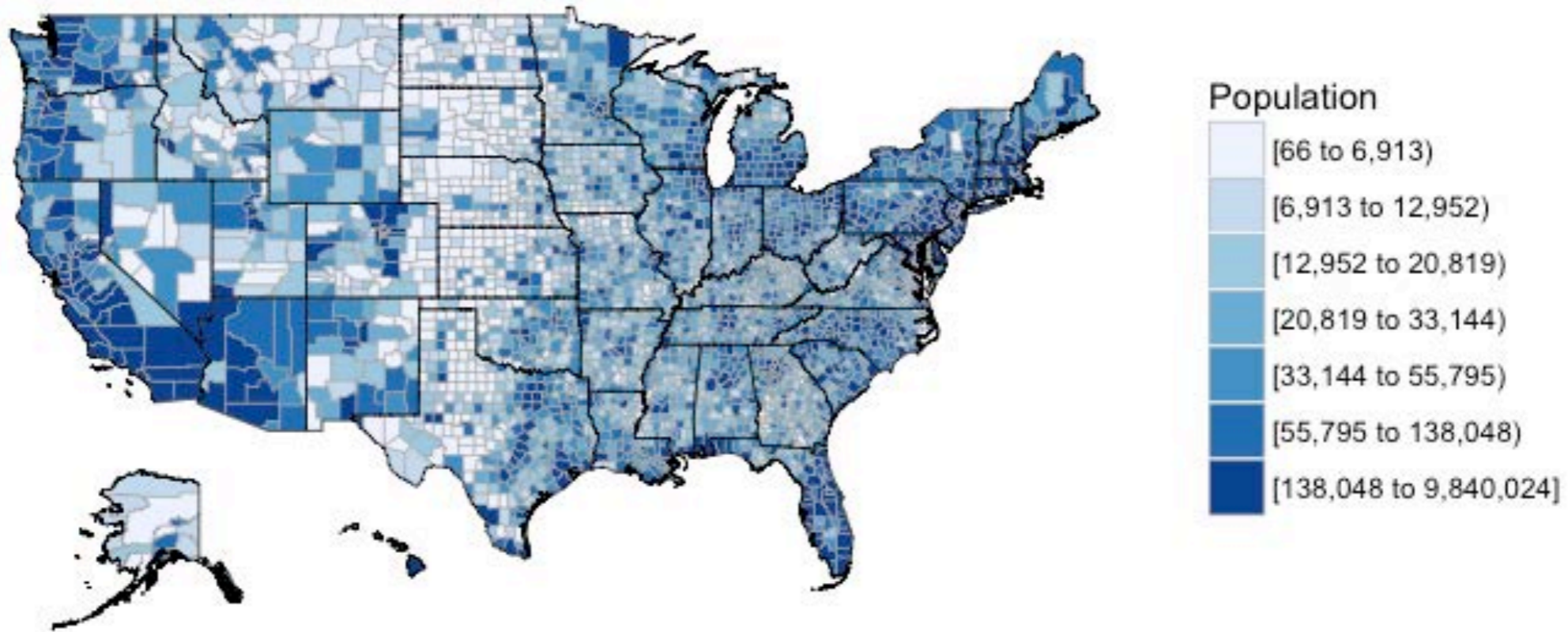


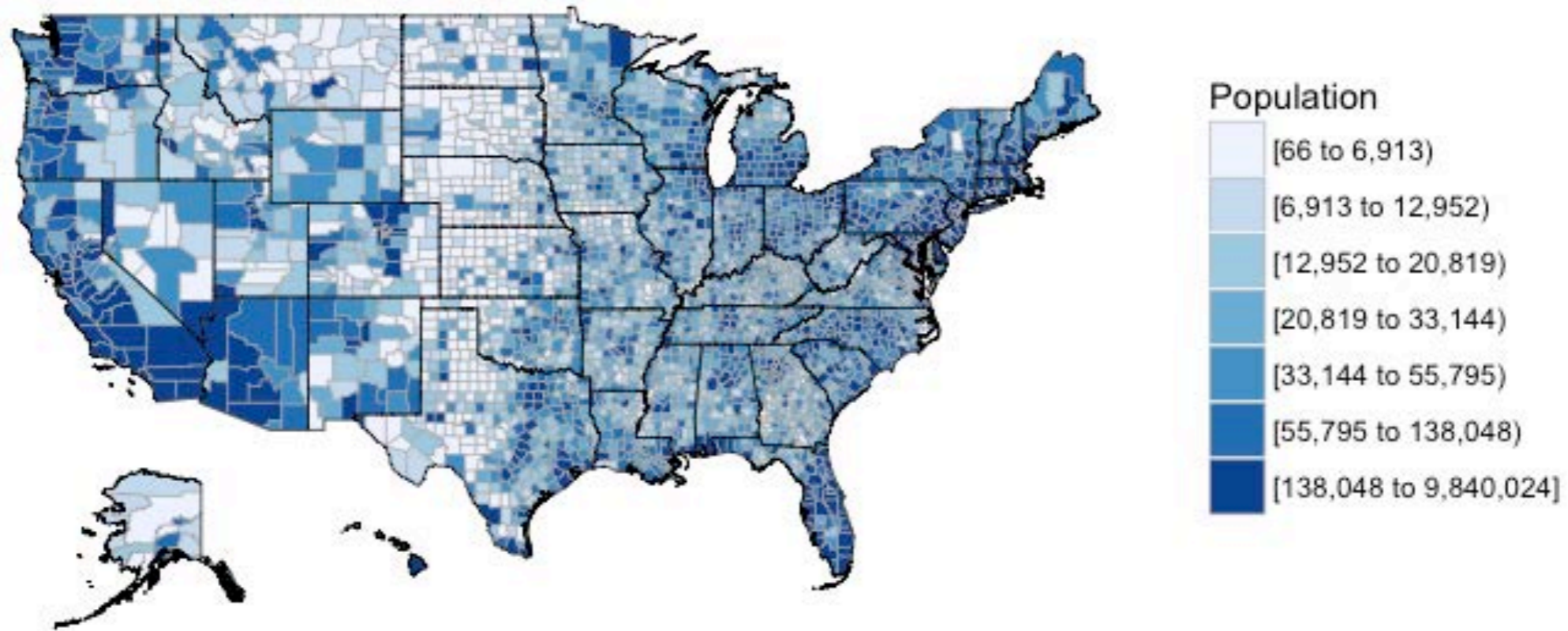
2012 County Population Estimates



Mapping ACS Data in R with Choroplethr

Ari Lamstein
2017 ACS Data Users Conference

2012 County Population Estimates



```
install.packages(c("choroplethr", "choroplethrMaps"))  
  
library(choroplethr)  
library(choroplethrMaps)  
  
data(df_pop_county)  
county_choropleth(df_pop_county,  
                  title = "2012 County Population Estimates",  
                  legend = "Population")
```

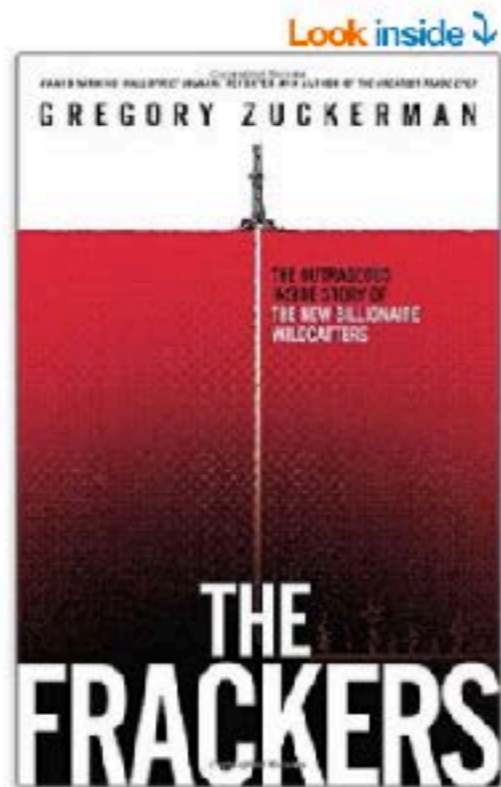
MyACSTalk.com

Talk Outline

1. Introduction

2. Case Study

3. Additional Features



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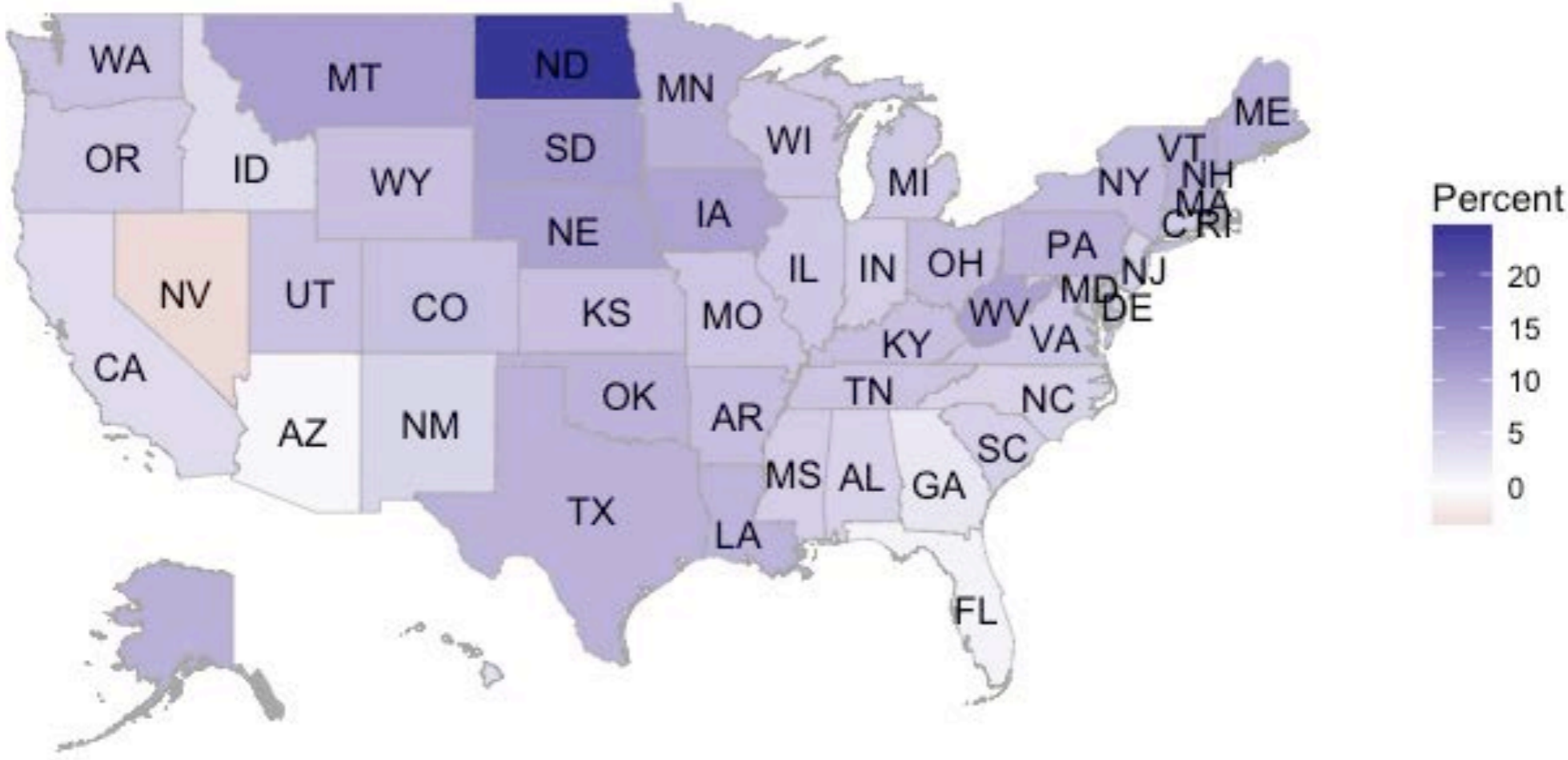
Everyone knew it was crazy to try to extract oil and natural gas buried in shale rock deep below the ground. Everyone, that is, except a few reckless wildcatters - who risked their careers to prove the world wrong.

Things looked grim for American energy in 2006. Oil production was in steep decline and natural gas was hard to find. The Iraq War threatened the nation's already tenuous relations with the Middle East. China was rapidly industrializing and competing for resources. Major oil companies had just about given up on new discoveries on U.S. soil, and a new energy crisis seemed likely.

Fracking changed North Dakota

http://www.econtalk.org/archives/2014/06/gregory_zuckerm.html

Percent Change in Per Capita Income, 2010-2015



```
# state income comparison
#api.key.install('<your census api key>')

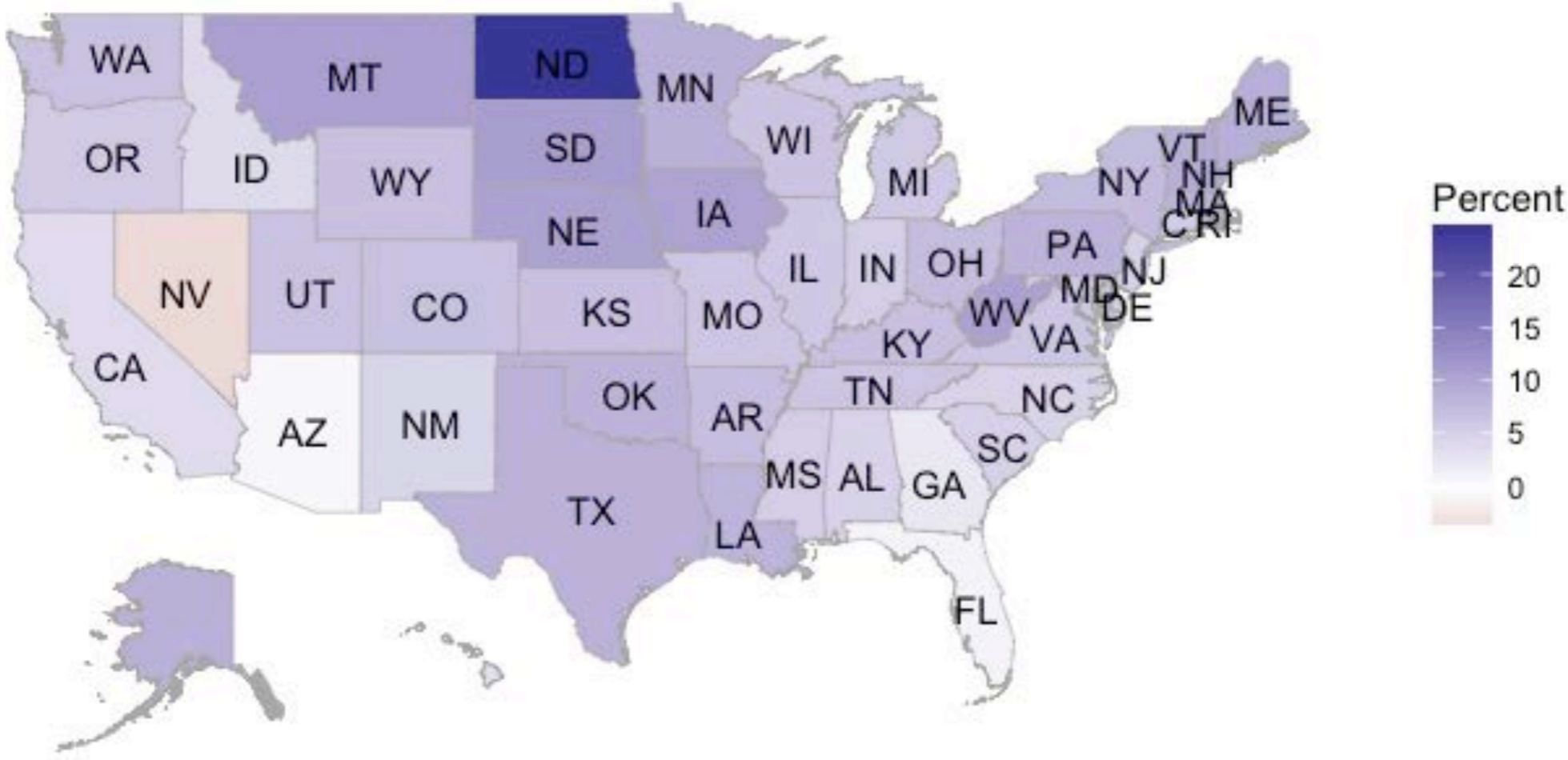
df_state_2010 = get_state_demographics(endyear = 2010, span = 5)
df_state_2015 = get_state_demographics(endyear = 2015, span = 5)

df_state_2010$value = df_state_2010$per_capita_income
df_state_2015$value = df_state_2015$per_capita_income

df_state_income_change = calculate_percent_change(df_state_2010, df_state_2015)

state_choropleth(df_state_income_change,
                 num_colors = 0,
                 title      = "Percent Change in Per Capita Income, 2010-2015",
                 legend     = "Percent")
```

Percent Change in Per Capita Income, 2010-2015



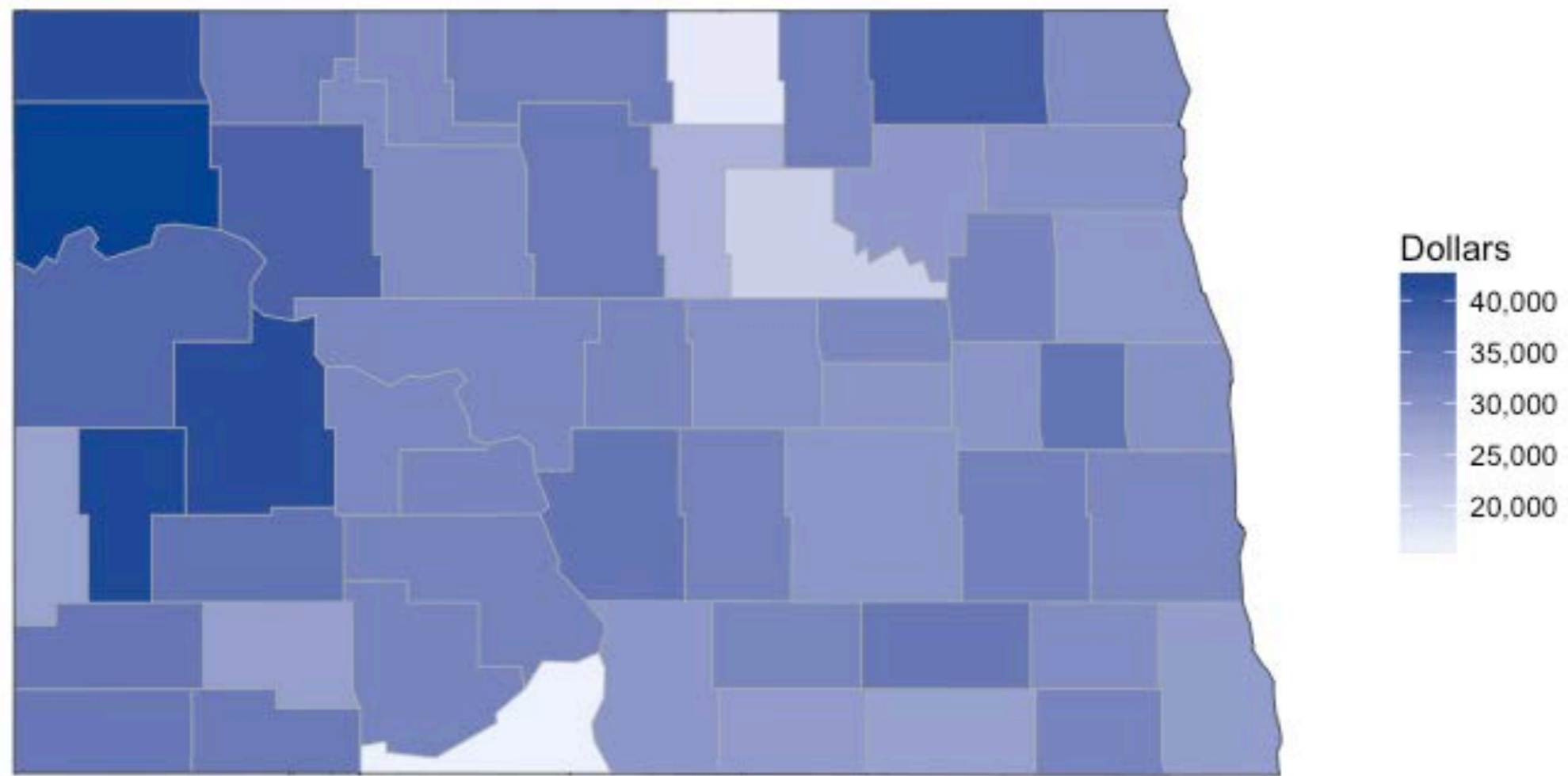
Talk Outline

1. Introduction

2. Case Study

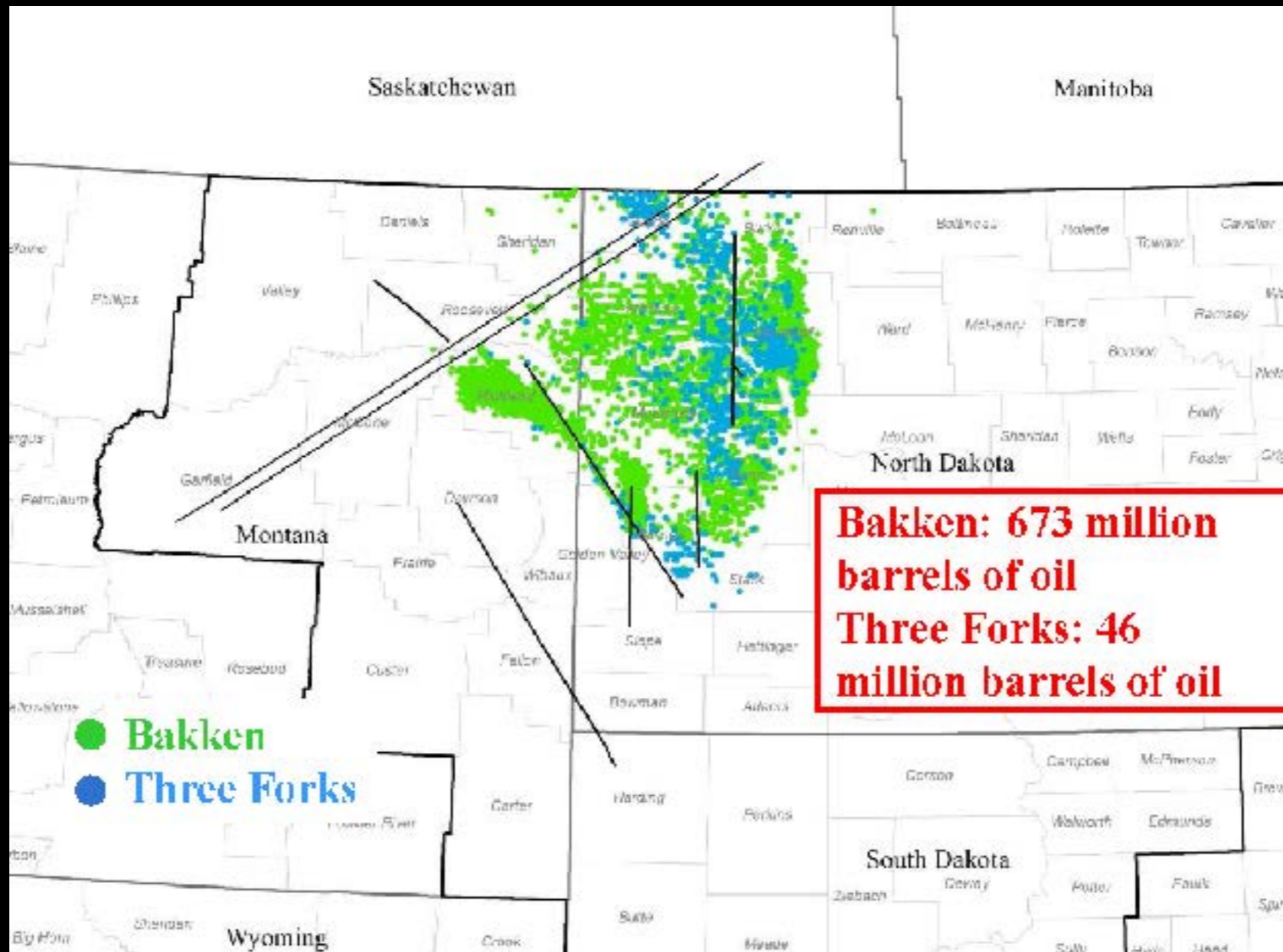
3. Additional Features

North Dakota County Per Capita Income, 2015



```
df_county_2015 = get_county_demographics(endyear = 2015, span = 5)
df_county_2015$value = df_county_2015$per_capita_income

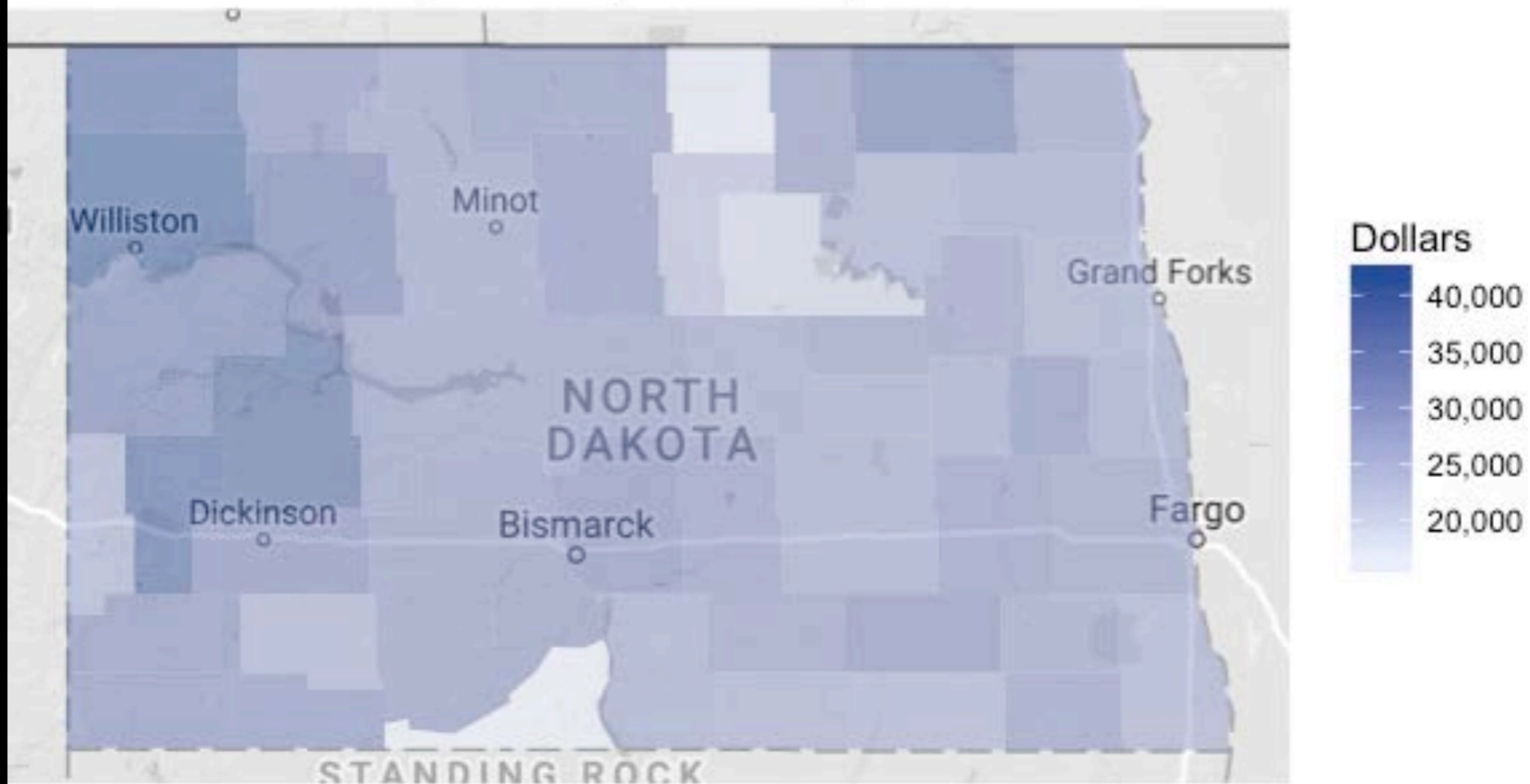
county_choropleth(df_county_2015,
                  title      = "North Dakota County Per Capita Income, 2015",
                  legend     = "Dollars",
                  num_colors = 1,
                  state_zoom = "north dakota")
```



Bakken Formation Wells, 2013

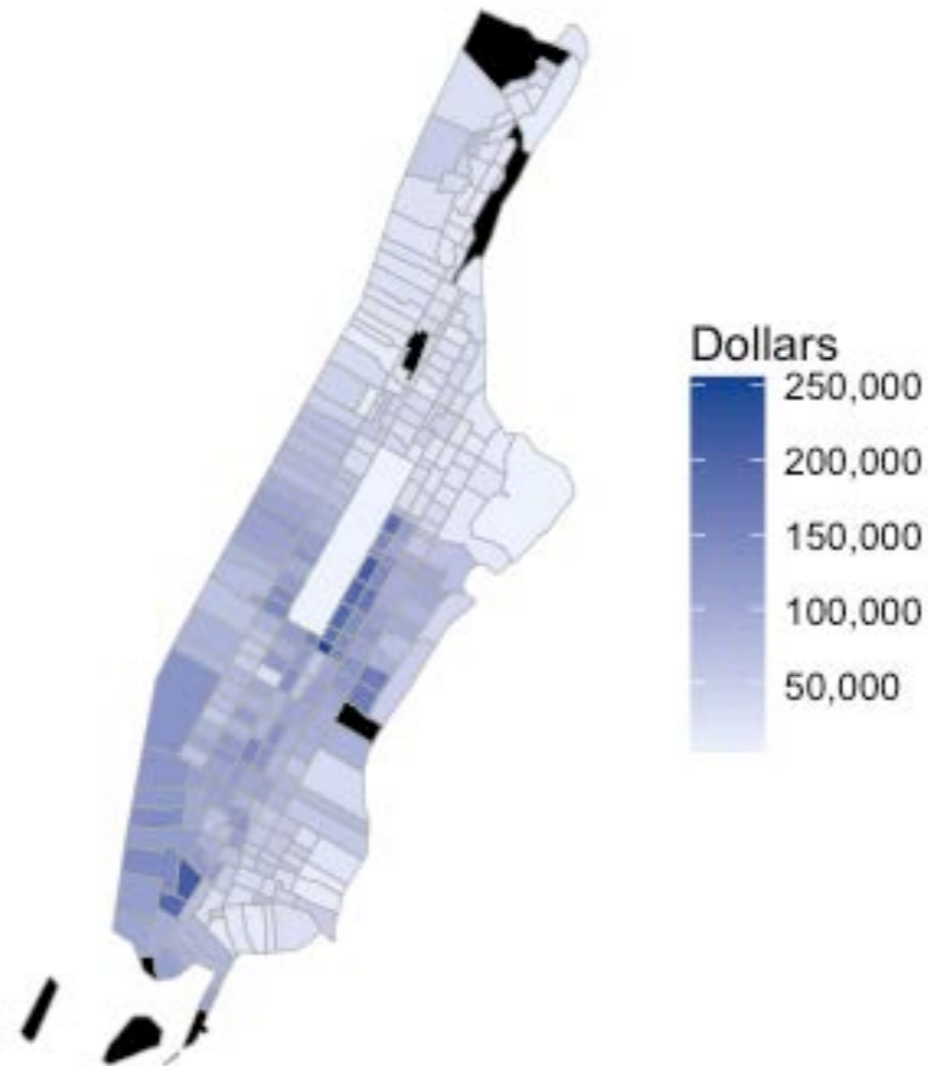
https://en.wikipedia.org/wiki/Bakken_Formation

North Dakota County Per Capita Income, 2015



```
county_choropleth(df_county_2015,  
                  title       = "North Dakota County Per Capita Income, 2015",  
                  legend      = "Dollars",  
                  num_colors  = 1,  
                  state_zoom  = "north dakota",  
                  reference_map = TRUE)
```

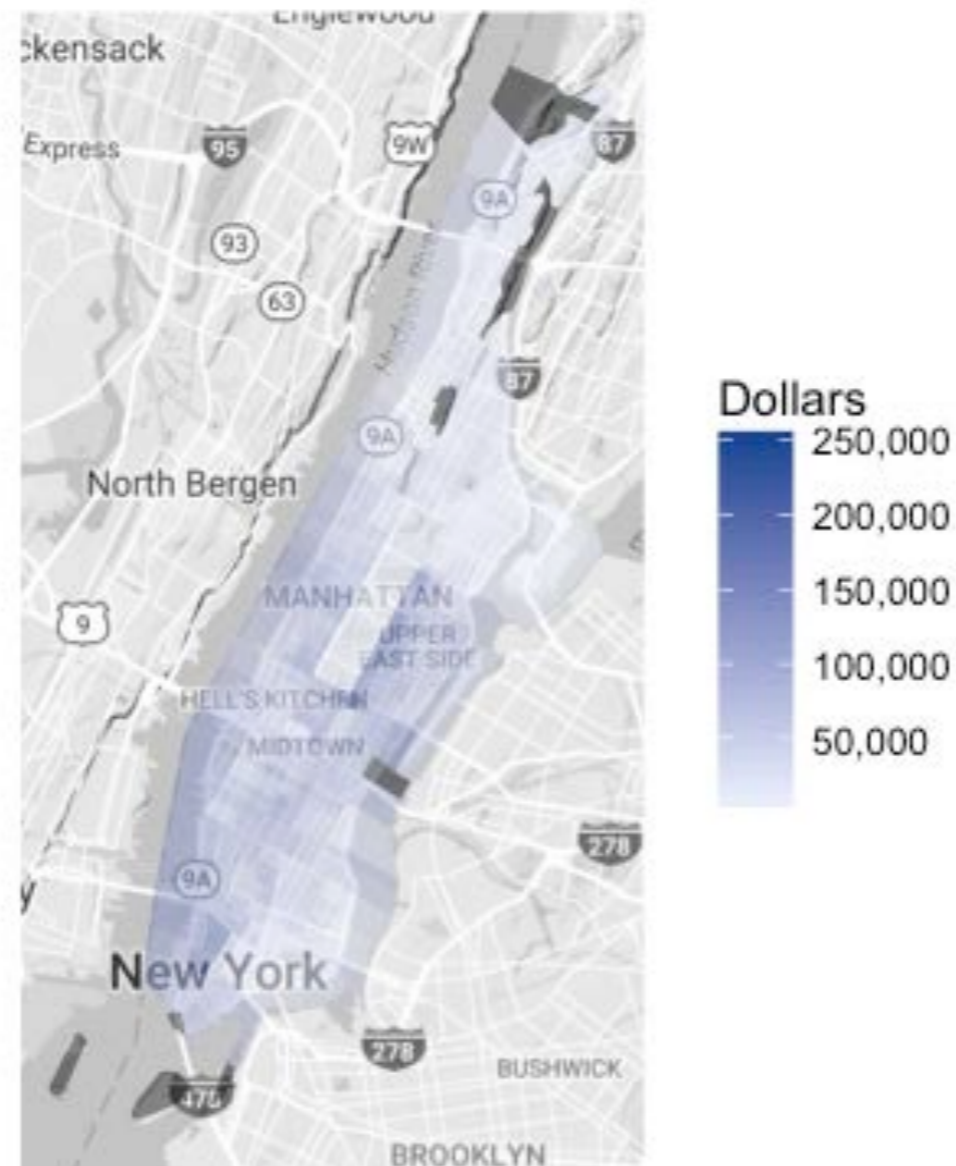
Manhattan Tract Per Capita Income, 2015



```
ny_tracts_2015 = get_tract_demographics("new york", endyear=2015)
ny_tracts_2015$value = ny_tracts_2015$per_capita_income

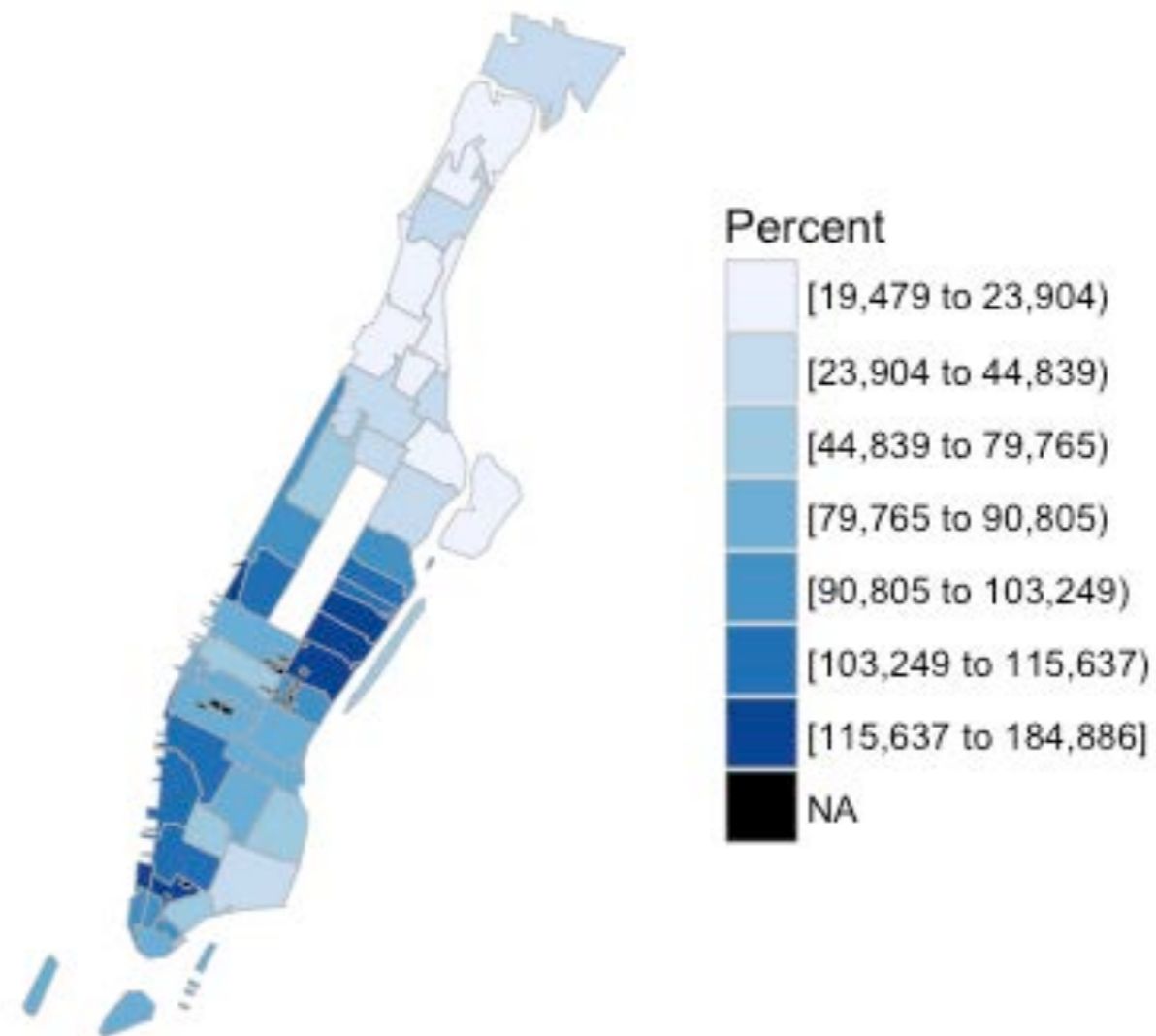
tract_choropleth(ny_tracts_2015,
                 state_name = "new york",
                 title      = "Manhattan Tract Per Capita Income, 2015",
                 legend     = "Dollars",
                 num_colors = 1,
                 county_zoom = 36061)
```

Manhattan Tract Per Capita Income, 2015



```
tract_choropleth(ny_tracts_2015,  
                 state_name = "new york",  
                 title      = "Manhattan Tract Per Capita Income, 2015",  
                 legend     = "Dollars",  
                 num_colors = 1,  
                 county_zoom = 36061,  
                 reference_map = TRUE)
```

Manhattan ZCTA Per Capita Income, 2015

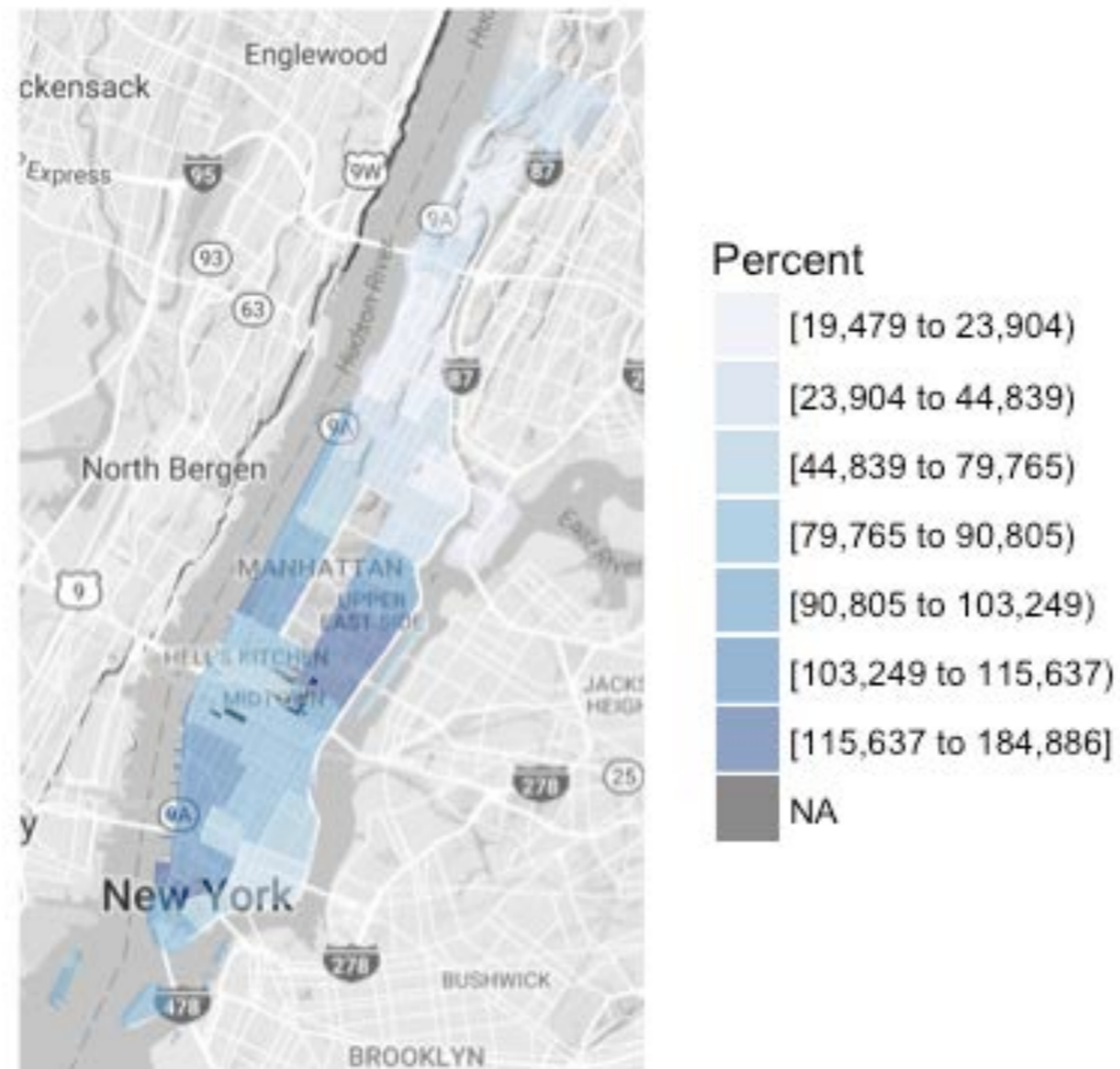


```
library(choroplethrZip)

df_zip_2015 = get_zip_demographics(2015, 5)
df_zip_2015$value = df_zip_2015$per_capita_income

zip_choropleth(df_zip_2015,
               title      = "Manhattan ZCTA Per Capita Income, 2015",
               legend     = "Percent",
               county_zoom = 36061)
```

Manhattan ZCTA Per Capita Income, 2015



```
zip_choropleth(df_zip_2015,  
               title      = "Manhattan ZCTA Per Capita Income, 2015",  
               legend     = "Percent",  
               county_zoom = 36061,  
               reference_map = TRUE)
```


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