Internet Access in Illinois

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```
library(tidyverse)
library(tidycensus)
library(viridis)
```

Introduction

Using Tidycensus

I'm going to examine internet access data from the U.S. Census. Below I activate the tidycensus API by using my own census key. Once activated, I identified some variables of interest related to household internet access, such as demographic and income data.

[1] "338b89135dc1066f5241fa4e16804fc7345d1822"

```
readRenviron("~/.Renviron")
v1 <- load_variables(2020, "acs5") #here I loaded variables for the 2020 ACS</pre>
```

Loading Internet Access Data

I'm loading data from the 2020 American Community Survey and filtering by Illinois counties.

```
year = 2020, #filtering by year 2020
state = "IL" #filtering by IL
)
```

Examining the Dataframe

```
nrow(internet_data_raw)

## [1] 1020

ncol(internet_data_raw)

## [1] 5

names(internet_data_raw)

## [1] "GEOID" "NAME" "variable" "estimate" "moe"
```

Data Cleaning & Manipulation

Data Visualization

The data viz below looks at the correlation between household median income, percent of households without internet access, and percent of Black residents by county.

