The **website is an interactive map** which can represent the distribution of 11 socioeconomic variables in the New York City and the histogram of the variables. The variables are in the first pull-down list. In the second pull-down list, I used Principal Component Analysis(a method from machine learning) to deal with all the variables, compressed all the variables into 4 big factors and represented the 4 big factors in the interactive map, too. In the third pull-down list, there are two study areas, but in this website I only used data for New York City.

Link of the website: <https://zzhouapp.shinyapps.io/myapp/> (When open the website it is a little slow because the size of data is a little big, sorry about that)





