# Use of BLS API

Xiaoyi Zhao

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## 0.1 Setup

```
knitr::opts_chunk$set(echo = TRUE)
```

### 0.2 Use the BLS API to retrieve the data

I work through the series number by https://data.bls.gov/PDQWeb/la, and we discover that the series number for each county is "FCN+Fips code+00000000"

### 0.3 ACS API

```
# Set the library and install the packages
library(censusapi)
library(tidycensus)
# Acquire the API by registering through https://api.census.gov/data/key_signup.html
census_api_key("your api key", install = TRUE, overwrite = TRUE)
# Acquire the API by registering through https://api.census.gov/data/key_signup.html
#The main function to retrive the data here are https://cran.r-project.org/web/packages/ti
#to check the name of the variable
v15 <- load_variables(2015, "acs5", cache = TRUE)
View(v15)
# for example, if I want to know the age
# here is the explanation of the codebook: https://data.census.gov/table/ACSDT5Y2022.B0100
nc_acs_2015 <- get_acs(geography = "county",</pre>
              year = 2015,
              variables = c(age = "B01001A_003"),
              state = "NC",
              survey = "acs5",
              output = "wide")
```