

There are 2 options to complete the HW this week. You will either use the Census API (option 1) or the Twitter API (option2). I find that the Census API can be finicky and thus I have provided another option that may be less troublesome.

#### OPTION 1:

1. Download data for all of the census tracts in Fulton County, GA on education levels.

Before beginning this assignment, it is imperative that you watch the [async lectures](#) and review the [07-webscraping-new.rmd](#) file.

You will also find pertinent info here: <https://www.census.gov/programs-surveys/acs/technical-documentation/summary-file-documentation.html>

Hint: `lookup_code("CA", "Los Angeles")`

Hint: `acs.fetch( ... )`

2. Compute the proportion of the population that has a bachelor's degree or above by census tract.

Hint: `acs.colnames(county_educ)`

Hint: `divide.acs( ... )`

3. Download data for all of the zip codes in LA county on family income by census tract.

See Lines 260 – 270 for an example.

4. Compute the proportion of the population that has family income above 75,000 in each census tract.

Hint: `county_income <- acs.fetch(geography=select_zip,  
endyear = 2016,  
table.number="B19001",  
col.names="pretty")`

`acs.colnames(county_income)`

5. Plot the proportion of residents in each census tract with incomes above 75,000 as a function of **COLLEGE EDUCATION**.

Note the typo in #5 in the original ....

#### OPTION 2:

1. Create a twittR Account. What is your consumerKey? What is your accessToken?

You will need to create an “app” with twitter.

Read more about it here: <https://developer.twitter.com/en/account/get-started>

Creating an app here: <https://developer.twitter.com/en/apps>

***Follow instructions and take note off your API keys and tokens which grant you access.***

\*\*\* If needed, create a developer account:

Apply for a developer account at <https://developer.twitter.com/en/apply-for-access> .

2. Run example 07-twitterAPI.rmd. Use hashtag: Trump. What are the 5 most common words contained within collected tweets?

Run the following line of code and change the hashtag, n, and date, to what you desire.

```
Search<-twitteR::searchTwitter("#Trump",n=10,since="2019-09-09")
```

3. Run this RMD file and choose your favorite hashtag, e.g. chocolate. Create a wordcloud using words from all collected tweets.