Data Sources

1. Affordable\_Housing\_Directory-2018.csv from: <https://catalog.data.gov/dataset?q=Austin-Affordable+housing&sort=score+desc%2C+name+asc&res_format=CSV&organization=city-of-austin&as_sfid=AAAAAAVvVnNLnNRtq4bk3IltSlNMMbRZYb9VzfCmORdeG3V9cMhca7UJt477V6zN1tyZo2eFPzviphZlPw4cIUSGT3DEHWzsIsEPScs7VcWYc69IStVRFOvvnC5chWc4DzfIm6k%3D&as_fid=dac2e598e3ac3f26ee7f08651e5e008e79c1fe21&ext_location=&ext_bbox=&ext_prev_extent=-142.03125%2C-8.059229627200192%2C-59.0625%2C52.696361078274485>

2. Austin\_High\_School\_Graduation\_Rates.csv from: <https://catalog.data.gov/dataset?q=Austin-Schools&sort=score+desc%2C+name+asc&res_format=CSV&organization=city-of-austin&ext_location=&ext_bbox=&ext_prev_extent=-142.03125%2C-3.162455530237848%2C-59.0625%2C55.57834467218206&page=3>

3. Austin\_Public\_Health\_Locations.csv: <https://catalog.data.gov/dataset?q=Austin-Public+Health&sort=score+desc%2C+name+asc&res_format=CSV&organization=city-of-austin&as_sfid=AAAAAAXHScEA_aPN2RoQYaqtR-OhRAy1QvSQ9LIeeR3bEuDcBj5ir7rRg2mQsGpP-BYLv3SQDSfLJkrDxe-eHfwT7MSVTaewVsX75n873CA5r2Y2BGhzX9KFHOzqaJiKOHEJzUM%3D&as_fid=3a274ff4a53431fbad2f1c7870c7ff3d33a0d573&ext_location=&ext_bbox=&ext_prev_extent=-142.03125%2C-8.059229627200192%2C-59.0625%2C52.696361078274485>

4.Community\_Connections\_Program\_\_100\_Public\_Facilities\_Signed\_up\_for\_Google\_Fiber\_Gigabit\_Speed\_Internet.csv from: <https://catalog.data.gov/dataset?q=Austin-Community+Connections&sort=score+desc%2C+name+asc&res_format=CSV&organization=city-of-austin&as_sfid=AAAAAAXJ84jFP636WtpZjEwarGMyaGEI79caI1HxUAXyS5fY_MLQK1J_UlxFftNnlKJD-jq0nZGJSDOB2MEgzx2Wy6Qjz2dR8PDedONpZm8hVltFSlE3a-iUyRtKw3C0f9PwUXM%3D&as_fid=f959e73c322ce84314bf049abd2535ac5a56a00e&ext_location=&ext_bbox=&ext_prev_extent=-183.515625%2C-42.553080288955805%2C-17.578125%2C67.87554134672945>

5. Neighborhood\_Reporting\_Areas\_Table\_I.xlsx from: <http://austintexas.gov/page/demographic-data>

6. Travis County Zipmap: <https://www.zipmap.net/Texas/Travis_County/Austin.htm>

(Explain how to get data, how to install package, how to run it, & read data)

7. Convert Location to GPS (Longitude, Latitude): <https://www.gps-coordinates.net/>

**Notes of process:**

Some files were missing a linking variable (key) We created a zipcode column to be able to link it to other csvs.

We removed null values in each data set

Isolated the columns needed for analysis for each csv.

# Merger between Public health and Neighborhood

dffull = df4.merge(df5, how='inner', on='Zipcode')

dffull.head()

dffull.count()