## **Analyzing Airbnb Accommodation Dataset**

- 1. Dataframe: listing each room id, host id with total score in two sorting ways
  - 1) index = (room\_id, host\_id)
  - 2) column = total\_score: overall\_satisfaction + reviews \* 0.378
  - 3) output = 1. sorted total\_score in ascending 2. sorted total\_score in descending = sorted\_total\_score\_ascend.csv, sorted\_total\_score\_descend.csv

- 2. Dataframe: listing average of factors by grouped neighborhood
  - 1) index = (neighborhood)
  - 2) column = avg of reviews | avg of overall\_satisfaction | avg of price | max of reviews | min of reviews | max of price | min of price
  - 3) output = 1. sorted neighborhood in ascending
    - = sorted\_neighborhood\_factors.csv

## 3. Dataframe: listing average of factors by grouped ranged prices

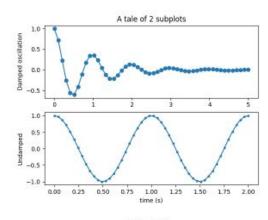
| PRICE       | accommodates<br>average | accommodates<br>median | bedrooms<br>average | bedrooms<br>median | reviews<br>average | reviews<br>median | neighbor list | length |
|-------------|-------------------------|------------------------|---------------------|--------------------|--------------------|-------------------|---------------|--------|
| 0 -100      |                         |                        |                     |                    |                    |                   |               |        |
| 100 - 200   |                         |                        |                     |                    |                    |                   |               |        |
| 200 - 300   |                         |                        |                     |                    |                    |                   |               |        |
| 300 - 400   |                         |                        |                     |                    |                    |                   |               |        |
| 400 - 500   |                         |                        |                     |                    |                    |                   |               |        |
| 500 - 1000  |                         |                        |                     |                    |                    |                   |               |        |
| 1000 - 5000 |                         |                        |                     |                    |                    |                   |               |        |

- 4. Graph: draw each graph by the following lists
  - 1) line plot x axis = ranged price | y axis = accommodate average
  - 2) line plot x axis = ranged price | y axis = bedrooms average
  - 3) line **subplot** x axis = neighborhood

| y axis = reviews average

| y axis = overall satisfaction average

| y axis = average price average



Subplot