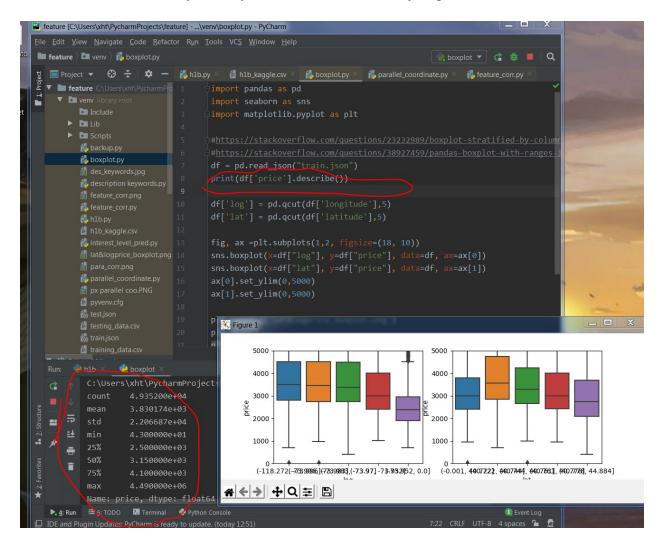
- Developer: Sophia Xiao @ 2021/1/2
- Dataset downloaded from Tianchi

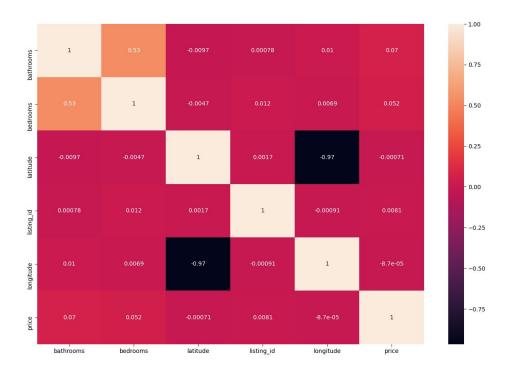
https://tianchi.aliyun.com/dataset/dataDetail?dataId=83994

- Goal:
  - o Boxplot: showing relationship between different latitude/longitude and price
  - Heatmap & parallel coordinate: showing correlation between features
- Website cited
  - o Boxplot
    - https://stackoverflow.com/questions/23232989/boxplot-stratified-by-colu mn-in-python-pandas
      - https://stackoverflow.com/questions/38927459/pandas-boxplot-with-range s-in-x-axis
  - o Parallel coordinates plot
    - https://plotly.com/python/parallel-coordinates-plot/
    - https://stackoverflow.com/questions/38103738/plotting-parallel-coordinat
      es-in-pandas-python
  - Heatmap
    - https://medium.com/@szabo.bibor/how-to-create-a-seaborn-correlation-he atmap-in-python-834c0686b88e
- Points:
  - Boxplot:
    - Cut the value of selected col into wanted num of bins
    - Make the figure contains two boxplots (bc lat & logi)

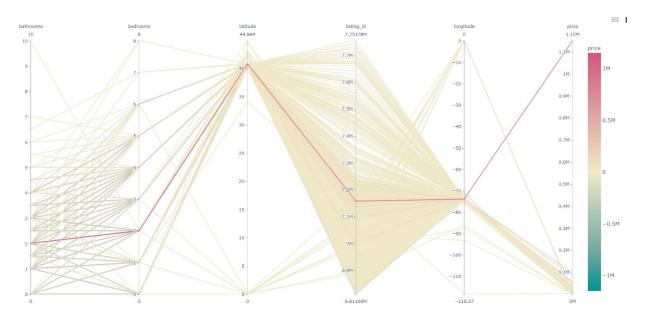
■ Set y limit by first look at stat summary of price



- From the plot we can see the avg rental price is mostly bt 3k 4k, the higher longitude, the lower price.
- Parallel coordinate plot and heatmap- assign in the right data to graph



 Showing there is not much correlation between features except for longitude and latitude which have a strong negative linear relationship



- Like indicated in the heatmap, there is not an apparent relationship between each other.
- Problems I had during the project:
  - The different tools (px vs pandas plotting parallel coordinates) produce different plot, but the variables I assign are the same
  - o I'm not sure if I really understand how to interpret a parallel coordinate plot

