**Project Title**: A Tale of Two Cities: Comparing NYC to SF

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**Project Description**:

* Compare median rent and $/sf of dwelling units in each city
  + Factor in ‘like’ apartments (similar amenities and surrounding neighborhood)
  + Compare the sale price versus rent price of condos

**Research Questions**:

* How have rents changed over time?
* How do prices affect the demographics?
  + Correlation or causation? Gentrification?
* Does it seem like there is a more preferred unit type in each city?
* How does restaurant/educational building density affect prices in each neighborhood?
  + Correlation or causation? Chicken or the egg?
* How do walkscores affect prices in each neighborhood?
  + Correlation or causation?
* Are there comparable neighborhoods between SF and NYC?

**Datasets to be used**:

Zillow API: <https://www.zillow.com/howto/api/APIOverview.htm>

Walkscore API : <https://www.walkscore.com/professional/api.php>

Yelp Fusion

Google Maps

SchoolDigger API: <https://developer.schooldigger.com/>

Census

Data.gov [https://www.data.gov/](https://www.data.gov/education/)

Community API <https://developer.nytimes.com/docs/community-api-product/1/overview>

( this will help us get useful insights about a specific region,but need to infer such local data as income, education, crime)

**Rough breakdown of tasks**:

* Use Pandas to read the data
* Clean and reformat the data
* Attempt to merge all datasets that can be easily grouped by similar indices
* Quantitative analysis
* Create plots to better describe the data
* Qualitative analysis