

# Graph Design

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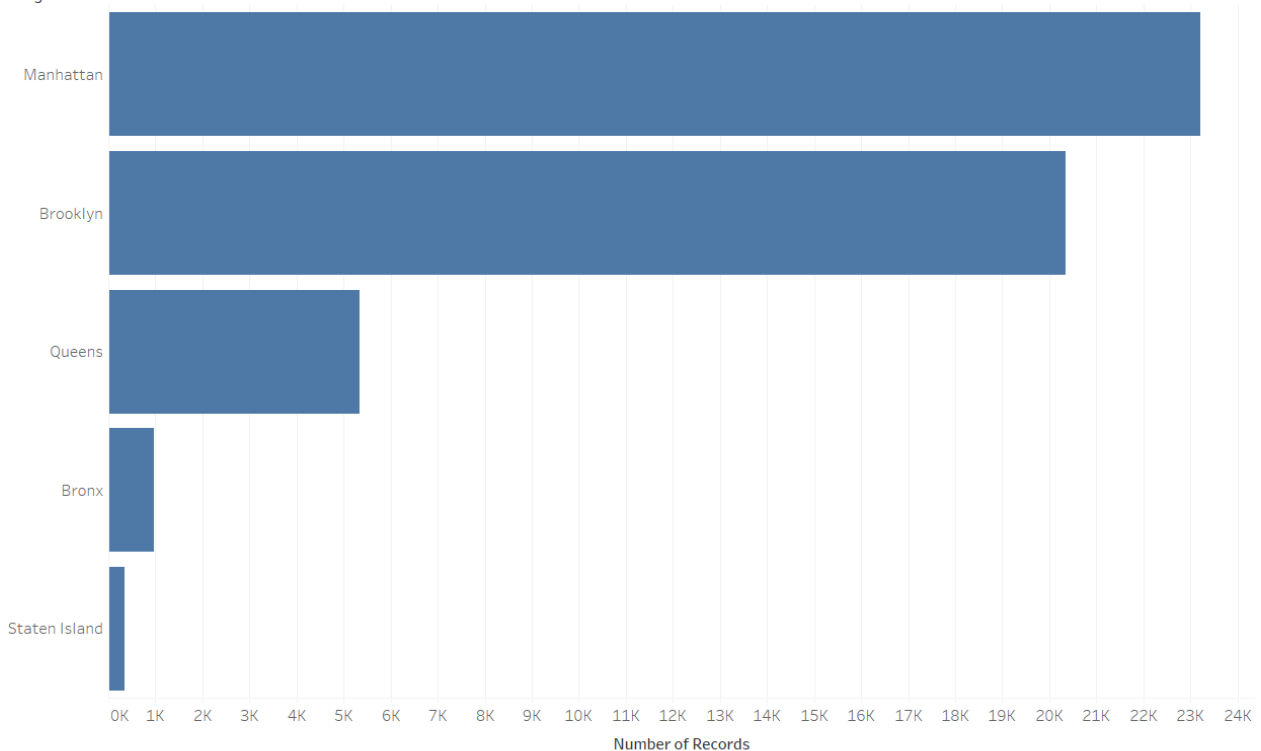
Net-ID: rpg283

1) Which areas in NYC have the highest/lowest number of listings?

Ans:

Sheet 1

Neighbourh..



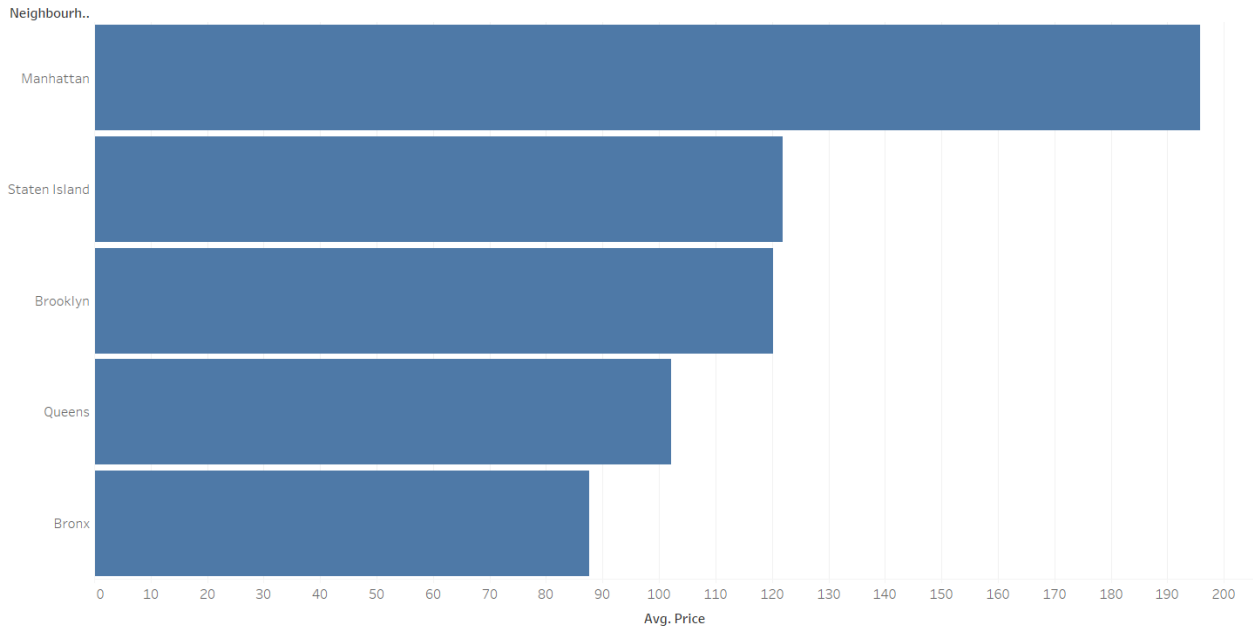
Sum of Number of Records for each Neighbourhood Group Cleansed.

Here, we have defined area as **Neighbourhood group** (“Neighbourhood Group Cleansed” attribute in the Dataset) and as evident from the bar graph Manhattan has the highest number of listings (23,213) and Staten Island has the lowest number of listings (343).

2) How does price distribute across different regions in NYC? Where are the areas with the highest and lowest prices?

Ans:

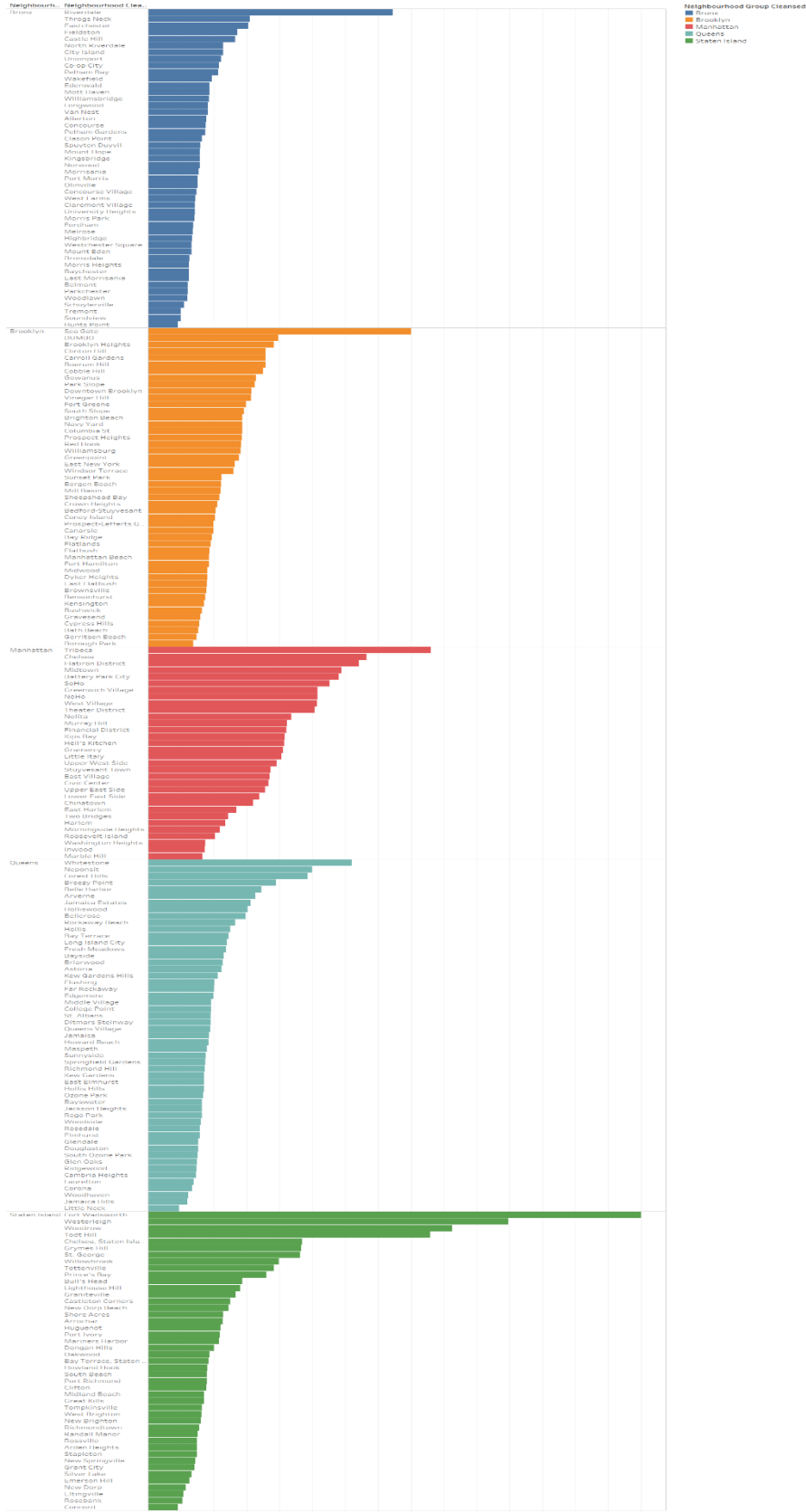
Sheet 1



Average of Price for each Neighbourhood Group Cleansed. The view is filtered on average of Price, which keeps non-Null values only.

Here, the term price has been defined by the **average of the price** attribute of the dataset for different areas defined by the **Neighbourhood group** (“Neighbourhood Group Cleansed” attribute in the Dataset) and as evident from the bar graph Manhattan has the highest price (195.7) and Bronx has the lowest price (87.6)

## Sheet 1

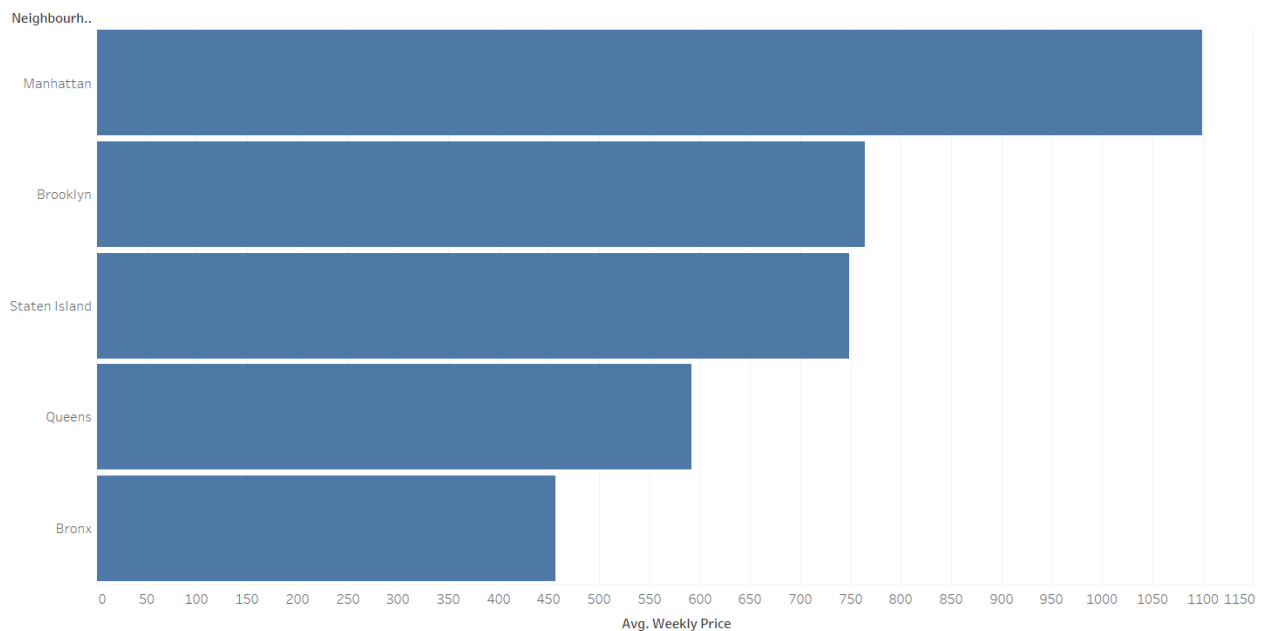


Average of Price for each Neighbourhood Cleansed broken down by Neighbourhood Group Cleansed. Color shows details about Neighbourhood Group Cleansed. The view is filtered on average of Price, which keeps non-Null values only.

Here, the term price has been defined by the **average of the price** attribute of the dataset for different areas defined by the **Neighbourhood** (“Neighbourhood Cleansed” attribute in the Dataset) for a given **Neighbourhood Group** (“Neighbourhood Group Cleansed” attribute in the Dataset) and as evident from the bar graph.

1. **Neighbourhood Group: Bronx**  
**Highest price Neighbourhood: Riverdale (371.9)**  
**Lowest price Neighbourhood: Hunts Point (45.8)**
2. **Neighbourhood Group: Brooklyn**  
**Highest price Neighbourhood: Sea Gate (400.2)**  
**Lowest price Neighbourhood: Borough Park (68.6)**
3. **Neighbourhood Group: Manhattan**  
**Highest price Neighbourhood: Tribeca (429.8)**  
**Lowest price Neighbourhood: Marble Hill (83.3)**
4. **Neighbourhood Group: Queens**  
**Highest price Neighbourhood: Whitestone (310.3)**  
**Lowest price Neighbourhood: Little Neck (47.5)**
5. **Neighbourhood Group: Staten Island**  
**Highest price Neighbourhood: Fort Wadsworth (750)**  
**Lowest price Neighbourhood: Concord (45.2)**

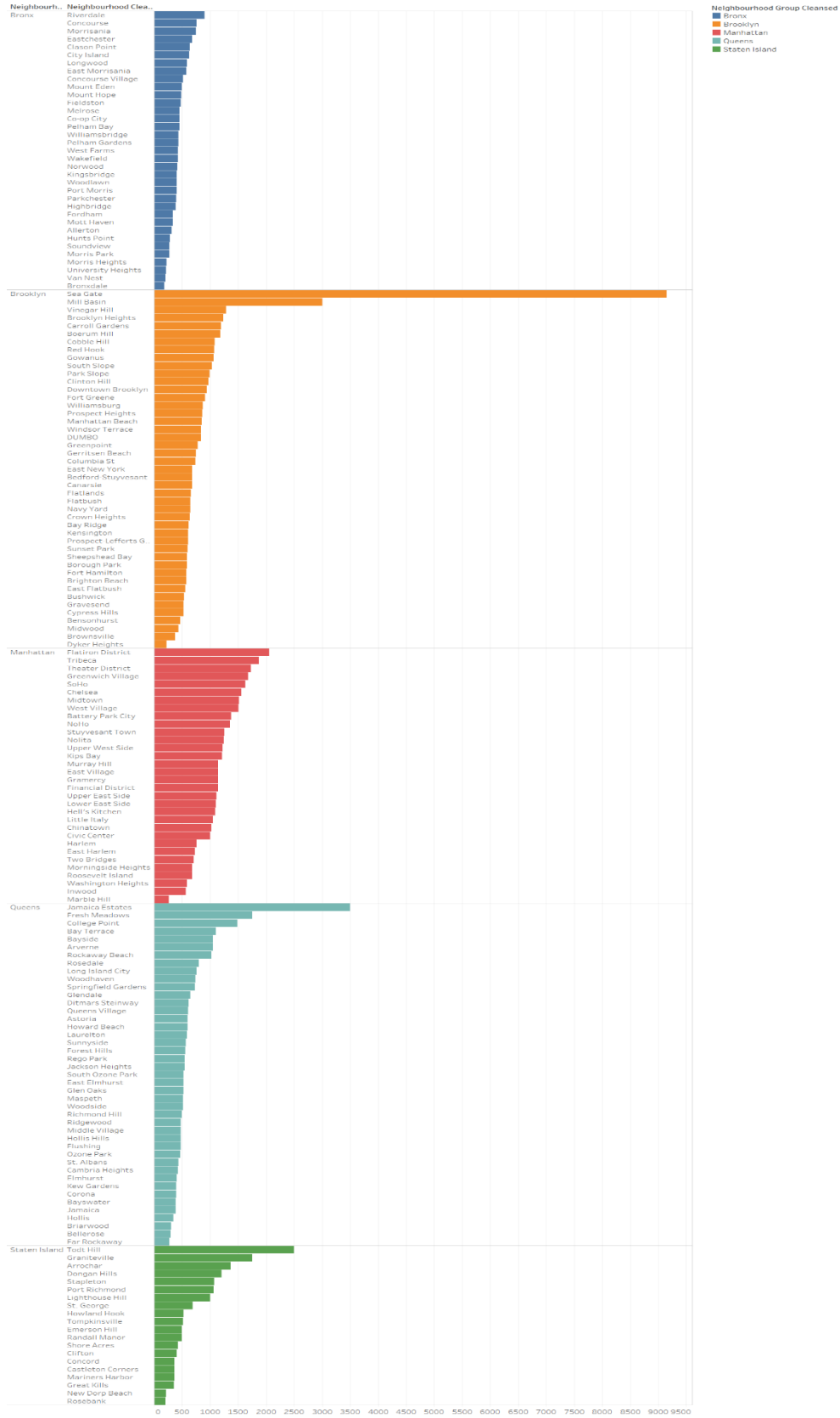
Sheet 1



Average of Weekly Price for each Neighbourhood Group Cleansed. The view is filtered on average of Weekly Price, which keeps non-Null values only.

Here, the term price has been defined by the **average of the weekly price** attribute of the dataset for different areas defined by the **Neighbourhood group** (“Neighbourhood Group Cleansed” attribute in the Dataset) and as evident from the bar graph Manhattan has the highest weekly price (1099.1) and Bronx has the lowest weekly price (456.5)

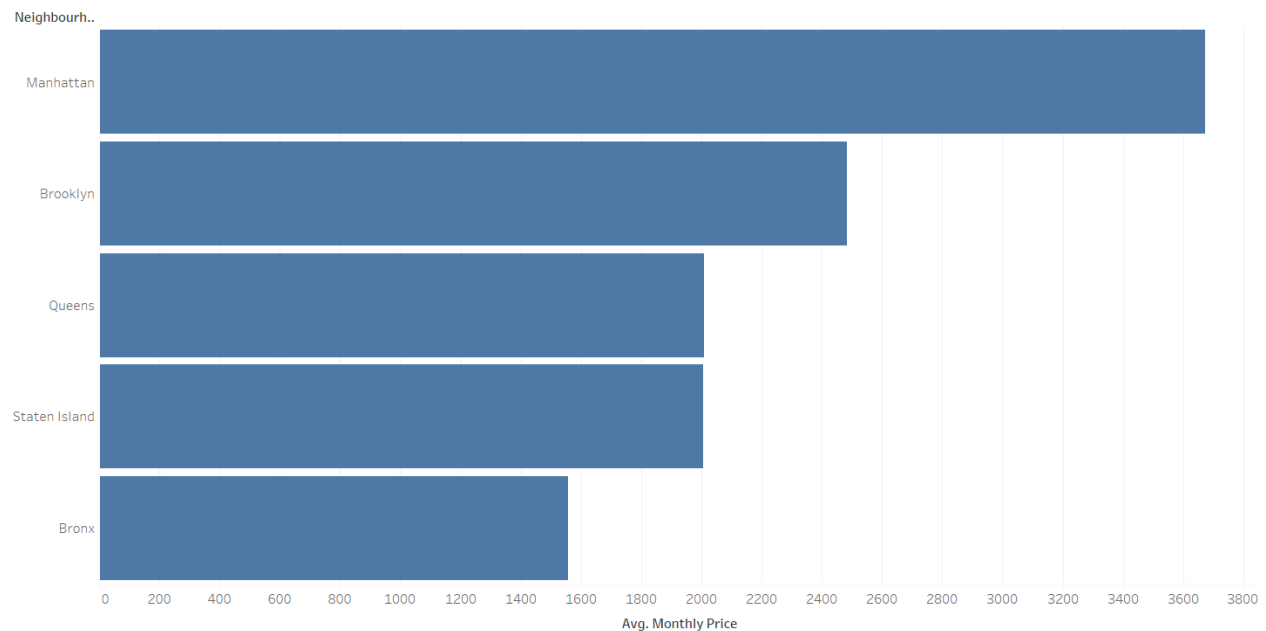
Sheet 1



Here, the term price has been defined by the **average of the weekly price** attribute of the dataset for different areas defined by the **Neighbourhood** (“Neighbourhood Cleansed” attribute in the Dataset) for a given **Neighbourhood Group** (“Neighbourhood Group Cleansed” attribute in the Dataset) and as evident from the bar graph.

1. **Neighbourhood Group: Bronx**  
**Highest weekly price Neighbourhood: Riverdale (899)**  
**Lowest weekly price Neighbourhood: Bronxdale (179)**
2. **Neighbourhood Group: Brooklyn**  
**Highest weekly price Neighbourhood: Sea Gate (9,149)**  
**Lowest weekly price Neighbourhood: Dyker Heights (220)**
3. **Neighbourhood Group: Manhattan**  
**Highest weekly price Neighbourhood: Flatiron District (2054)**  
**Lowest weekly price Neighbourhood: Marble Hill (265)**
4. **Neighbourhood Group: Queens**  
**Highest weekly price Neighbourhood: Jamaica Estates (3500)**  
**Lowest weekly price Neighbourhood: Far Rockaway (273)**
5. **Neighbourhood Group: Staten Island**  
**Highest weekly price Neighbourhood: Todt Hill (2499)**  
**Lowest weekly price Neighbourhood: Rosebank (200)**

Sheet 1



Average of Monthly Price for each Neighbourhood Group Cleansed.

Here, the term price has been defined by the **average of the monthly price** attribute of the dataset for different areas defined by the **Neighbourhood group** (“Neighbourhood Group Cleansed” attribute in the Dataset) and as evident from the bar graph Manhattan has the highest monthly price (3672) and Bronx has the lowest monthly price (1558)

## Neighbourh.. Neighbourhood Clea..



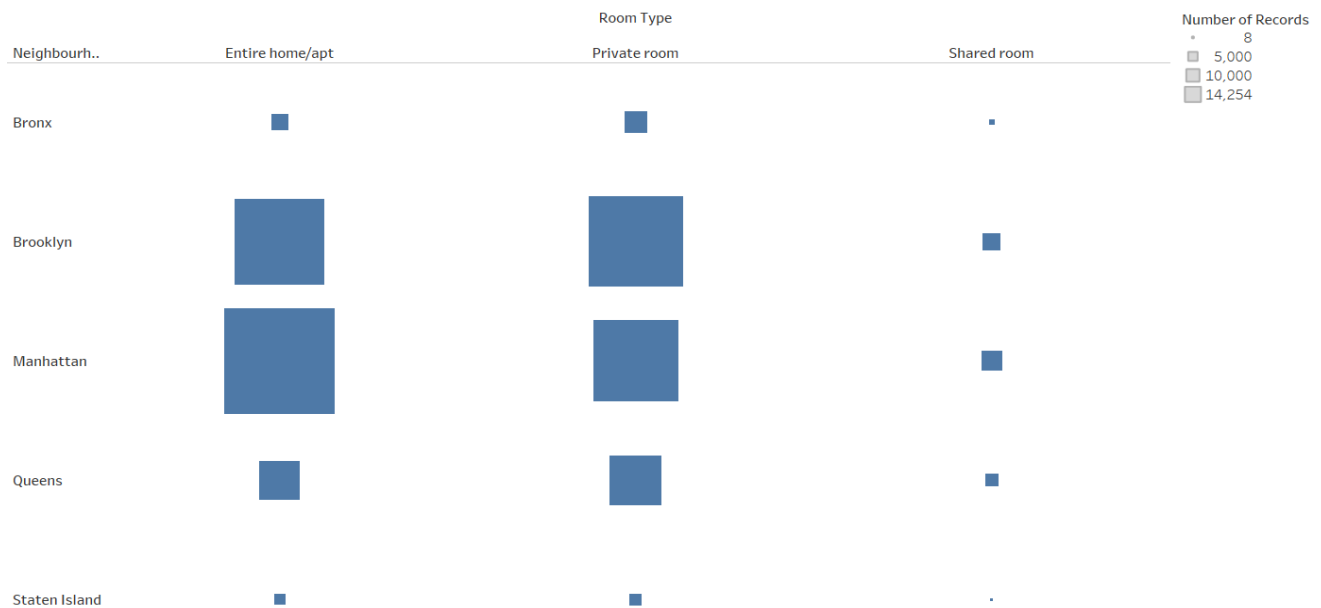
Here, the term price has been defined by the **average of the monthly price** attribute of the dataset for different areas defined by the **Neighbourhood** (“Neighbourhood Cleansed” attribute in the Dataset) for a given **Neighbourhood Group** (“Neighbourhood Group Cleansed” attribute in the Dataset) and as evident from the bar graph.

1. **Neighbourhood Group: Bronx**  
**Highest monthly price Neighbourhood: Riverdale (5500)**  
**Lowest monthly price Neighbourhood: Van Nest (565)**
2. **Neighbourhood Group: Brooklyn**  
**Highest monthly price Neighbourhood: Brooklyn Heights (4246)**  
**Lowest monthly price Neighbourhood: Navy Yard (1200)**
3. **Neighbourhood Group: Manhattan**  
**Highest monthly price Neighbourhood: Tribeca (6918)**  
**Lowest monthly price Neighbourhood: Stuyvesant Town (1650)**
4. **Neighbourhood Group: Queens**  
**Highest monthly price Neighbourhood: Jamaica Estates (12000)**  
**Lowest monthly price Neighbourhood: Far Rockaway (1036)**
5. **Neighbourhood Group: Staten Island**  
**Highest monthly price Neighbourhood: Todt Hill (7999)**  
**Lowest monthly price Neighbourhood: Rosebank (700)**

**3) How does the prevalence of room types (use “Room Type”) change across the main boroughs? Are there any major differences on whether there are more entire apartments, private rooms or shared rooms?**

Ans:

Sheet 1



Sum of Number of Records (size) broken down by Room Type vs. Neighbourhood Group Cleansed.



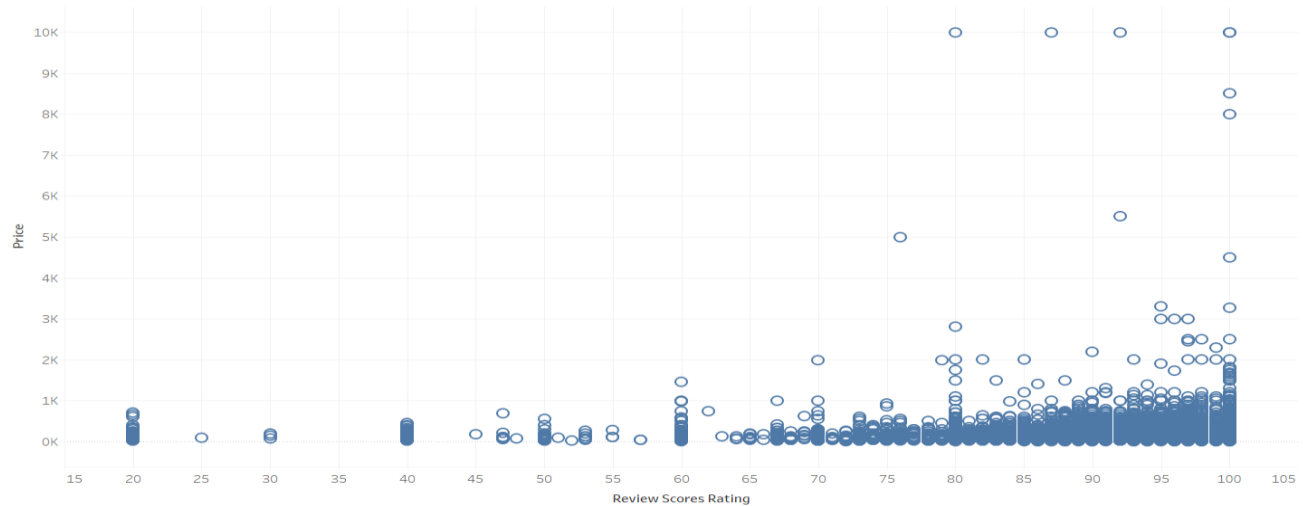
The following points are evident from the above Matrix:

1. Bronx, Brooklyn, Queens and Staten Island have more private rooms followed by Entire home/apt followed by Shared room.
2. Manhattan has more Entire home/apt followed by private rooms followed by Shared room.

**4) Is there a relationship between the price of a listing and the review score (use “Review Score Rating”)? Do listings with higher priced tend to be rated with higher scores?**

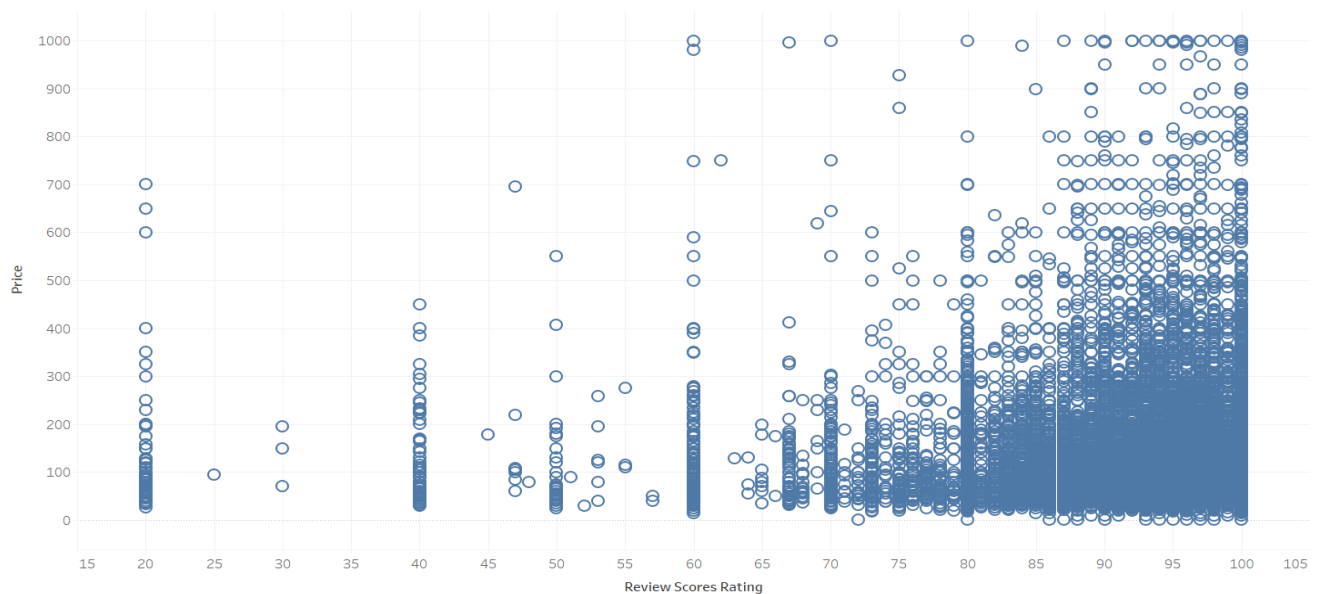
Ans:

Sheet 1



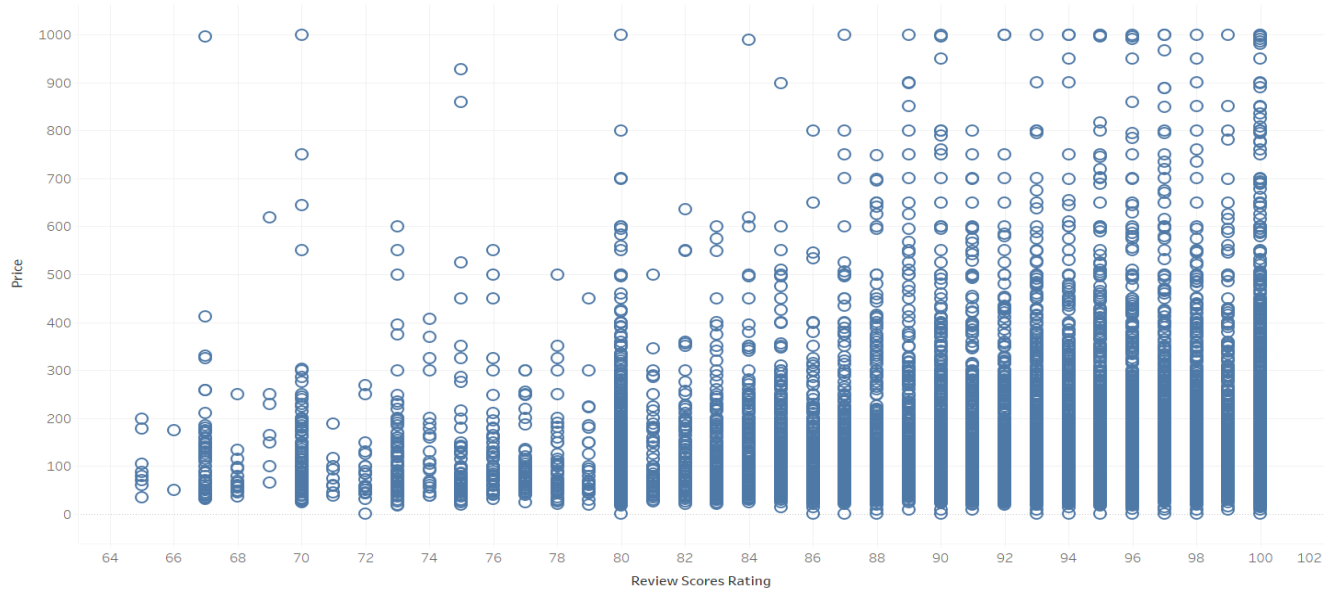
Review Scores Rating vs. Price. The view is filtered on Review Scores Rating, which keeps non-Null values only.

Sheet 1



Review Scores Rating vs. Price. The data is filtered on Price as an attribute, which keeps non-Null values only. The view is filtered on Review Scores Rating and Price. The Review Scores Rating filter keeps non-Null values only. The Price filter ranges from 0 to 1000.

Sheet 1



Review Scores Rating vs. Price. The data is filtered on Price as an attribute, which keeps non-Null values only. The view is filtered on Review Scores Rating and Price. The Review Scores Rating filter ranges from 65 to 100. The Price filter ranges from 0 to 1000.

From the above scatter plots with filtered ranges of Price and Review Scores Rating it is evident that listings with lower price tend to be rated with higher scores.