

## ASSIGNMENT 2

### DATA VISUALIZATION

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{ TURDATADEBRAZIL DATASET }

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You have been hired by the department of tourism of Brazil to analyze tourism trends of the past 10 years.

The supplied dataset is in csv format and contains monthly counts of visitors from other countries of the World coming to Brazil. Counts are split by the State into which the visitors arrived as well as the type of transportation they used: Air / Land / River / Sea.

### 1. Show year over year visitor trend for Brazil.

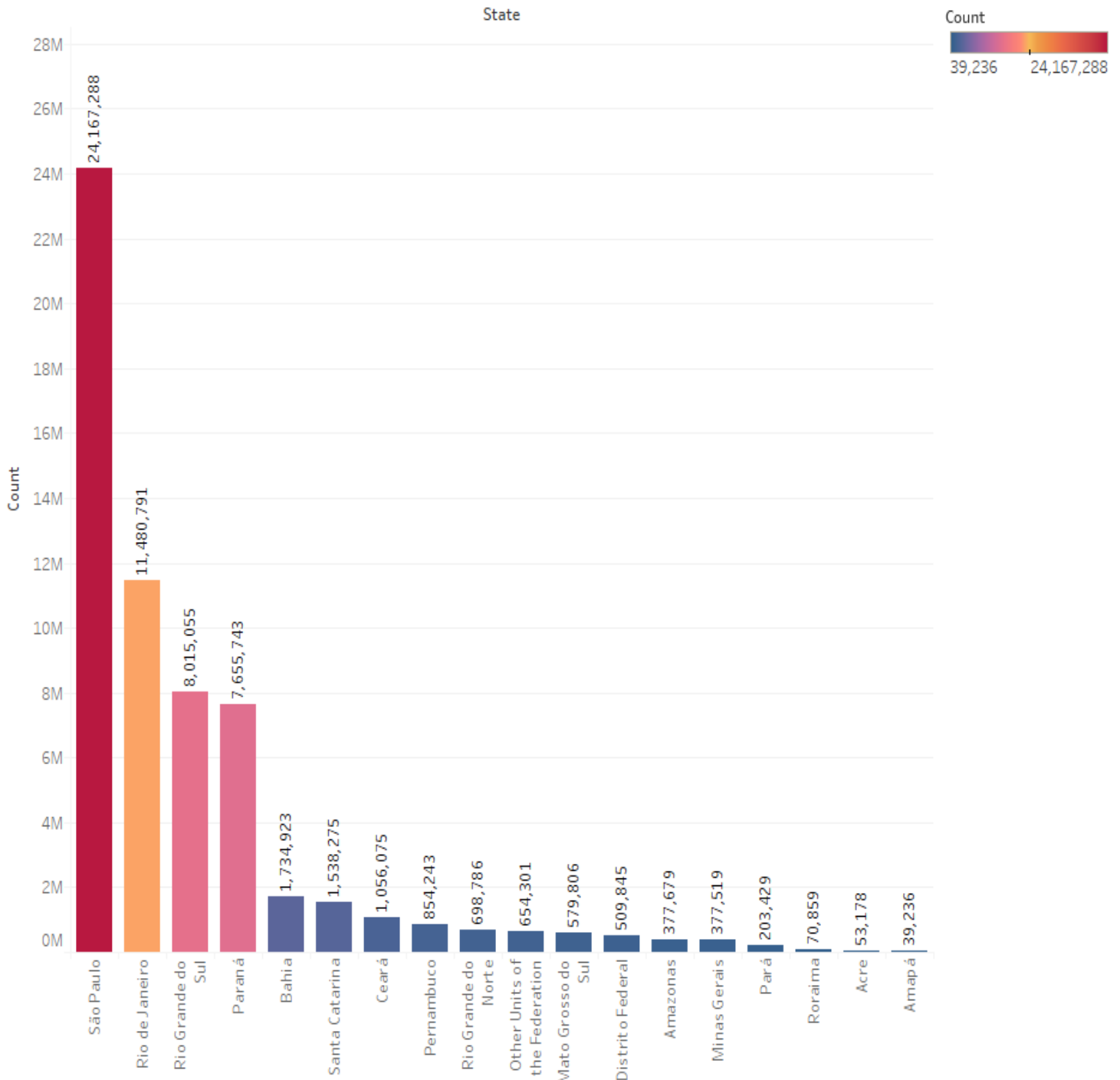


#### ➤ Explanation :~

- Trend Line :~ trend line feature to incrementally construct interactive models of behavior. Trend lines are used to predict the continuation of a certain trend of a variable. It also helps to identify the correlation between two variables by observing the trend in both of them simultaneously.

## 2. Show state wise number of tourists.

### STATE WISE NUMBER OF TOURISTS

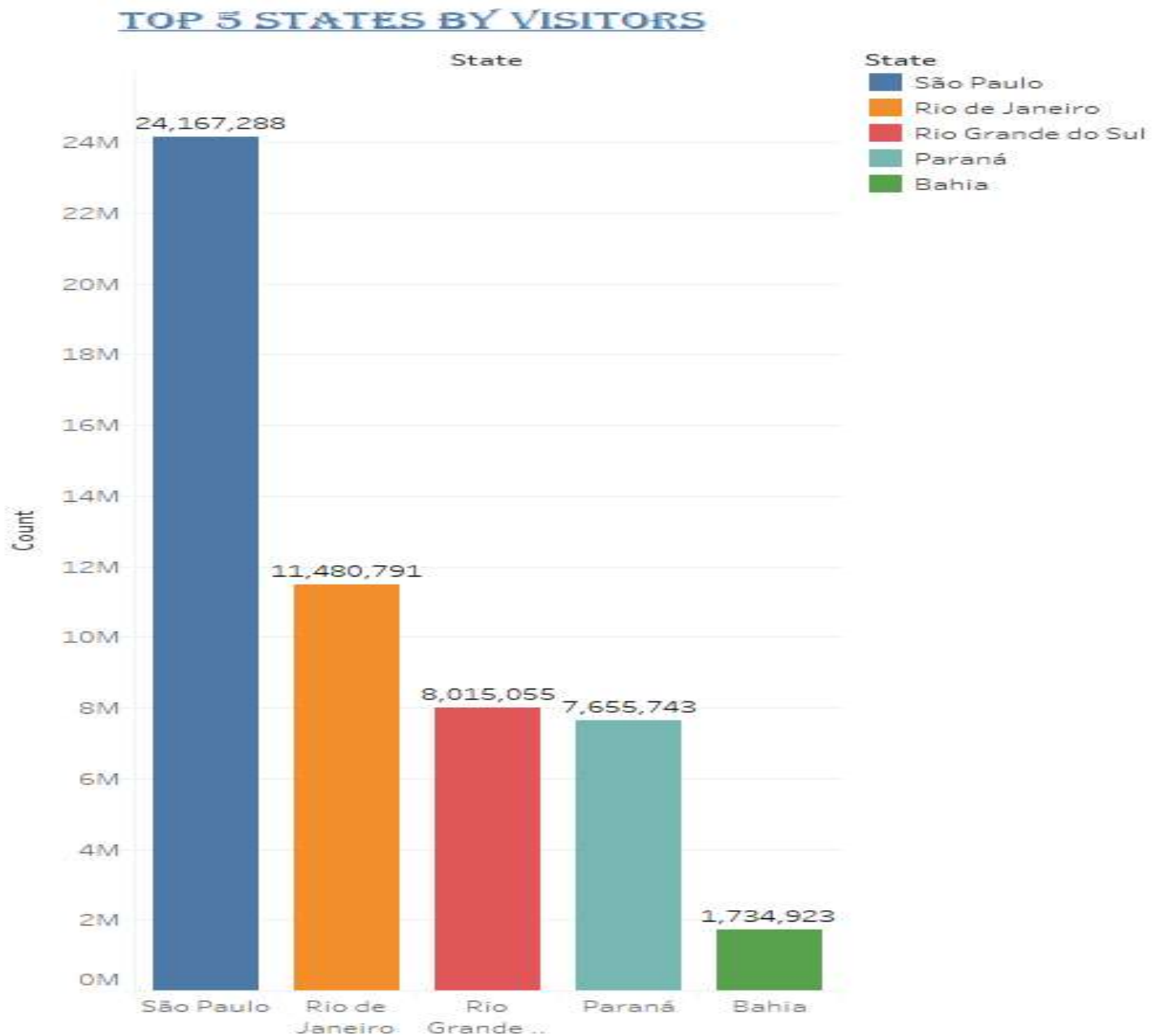


Sum of Count for each State. Color shows sum of Count. The marks are labeled by sum of Count.

➤ **Explanation :~**

➤ **Horizontal bar graph :~** To show the comparison between statewise number of tourist.

### 3. Top 5 states by visitors.



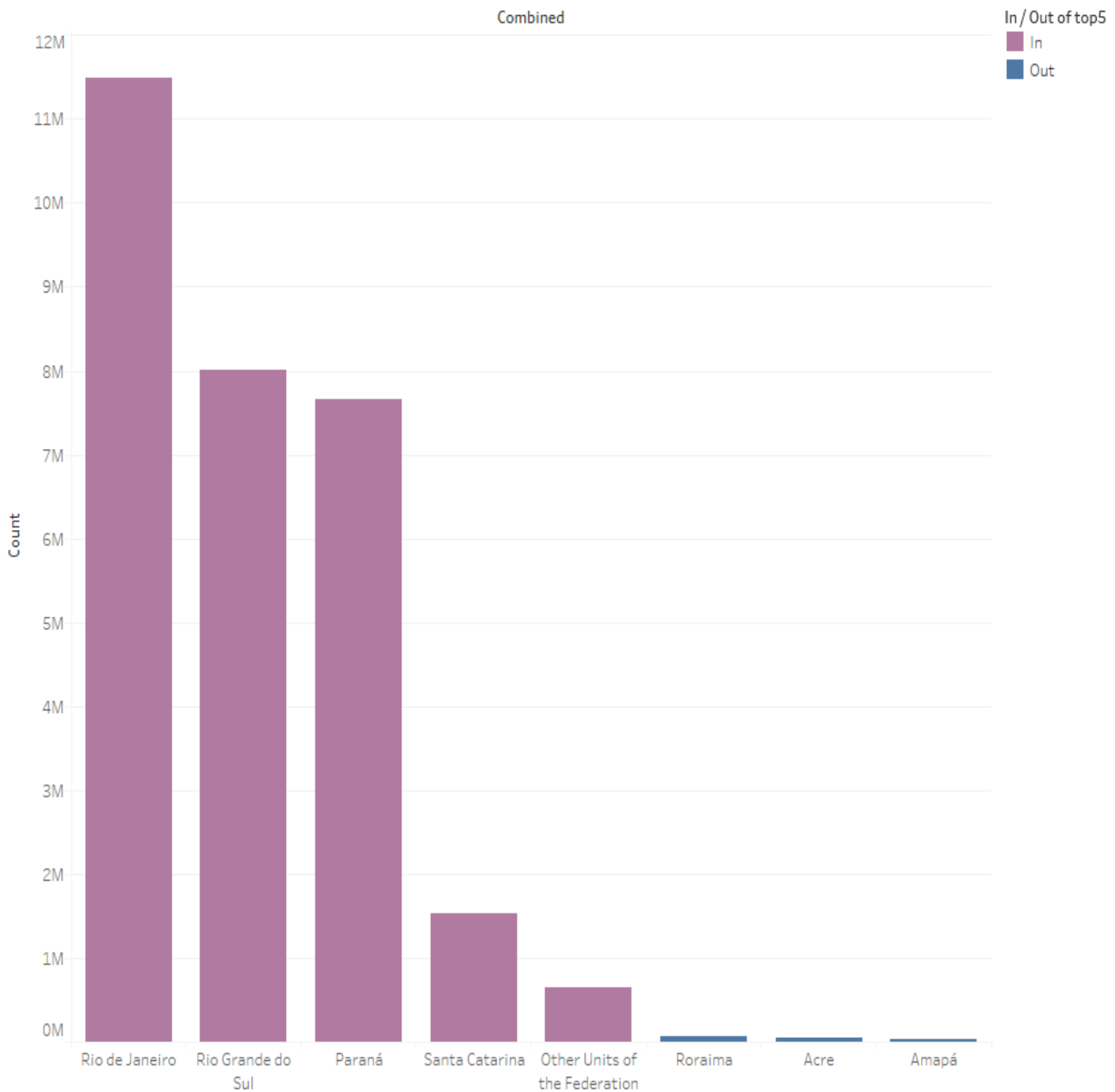
Sum of Count for each State. Color shows details about State. The marks are labeled by sum of Count. The view is filtered on State, which keeps Bahia, Paraná, Rio de Janeiro, Rio Grande do Sul and São Paulo.

➤ **Explanation :~**

➤ **Horizontal bar graph :~**To show comparison between state wise number of visitors

#### 4. Top 5 and Bottom 3 in one sheet only

##### TOP 5 AND BOTTOM 3 IN ONE SHEET ONLY

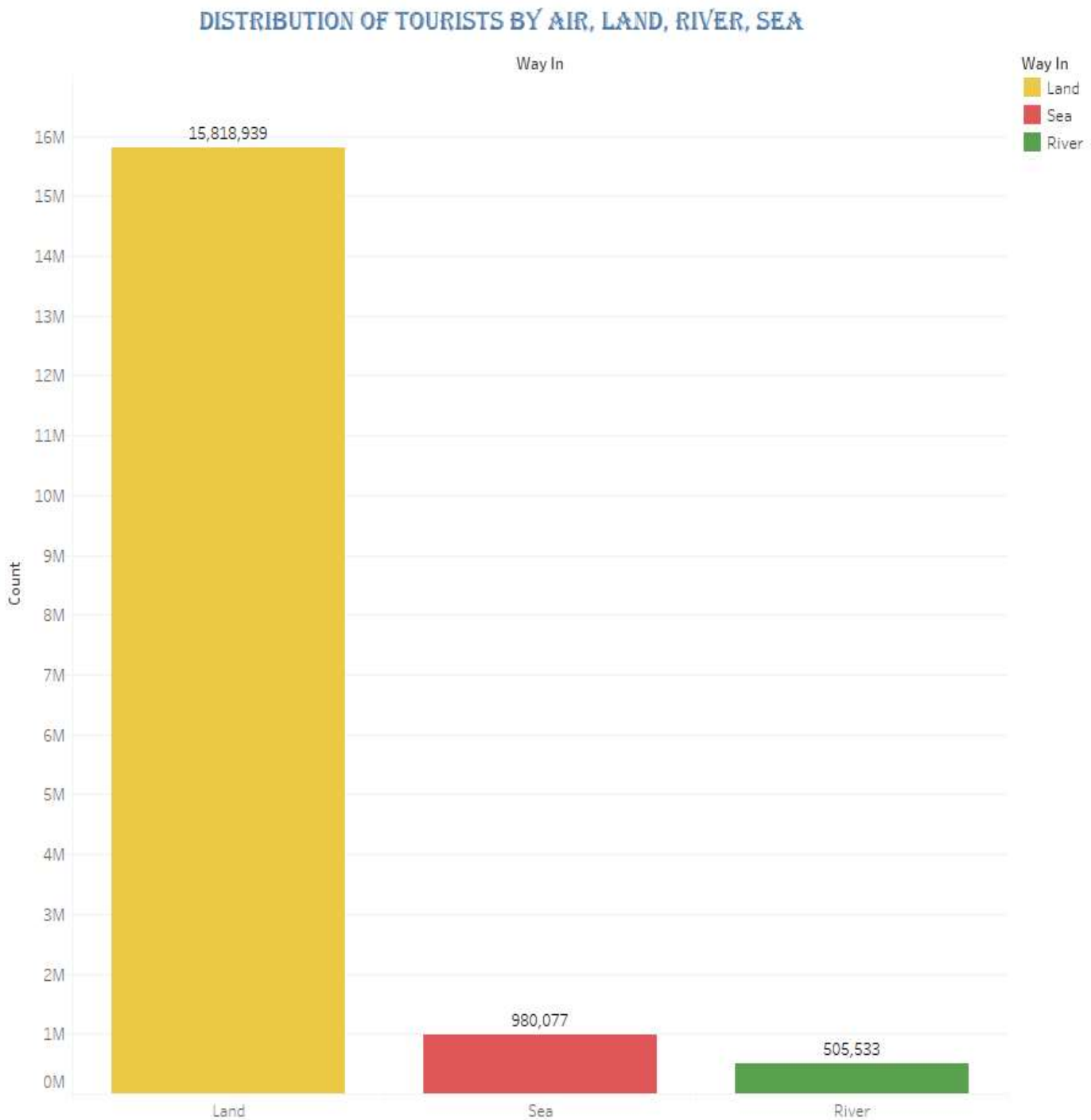


Sum of Count for each Combined. Color shows details about In / Out of top5. The view is filtered on Combined, which keeps 8 members.

➤ **Explanation :~**

➤ **Horizontal bar chart :~** To show the comparison between different categories.

## 5. Distribution of tourists by Air, Land, River, Sea



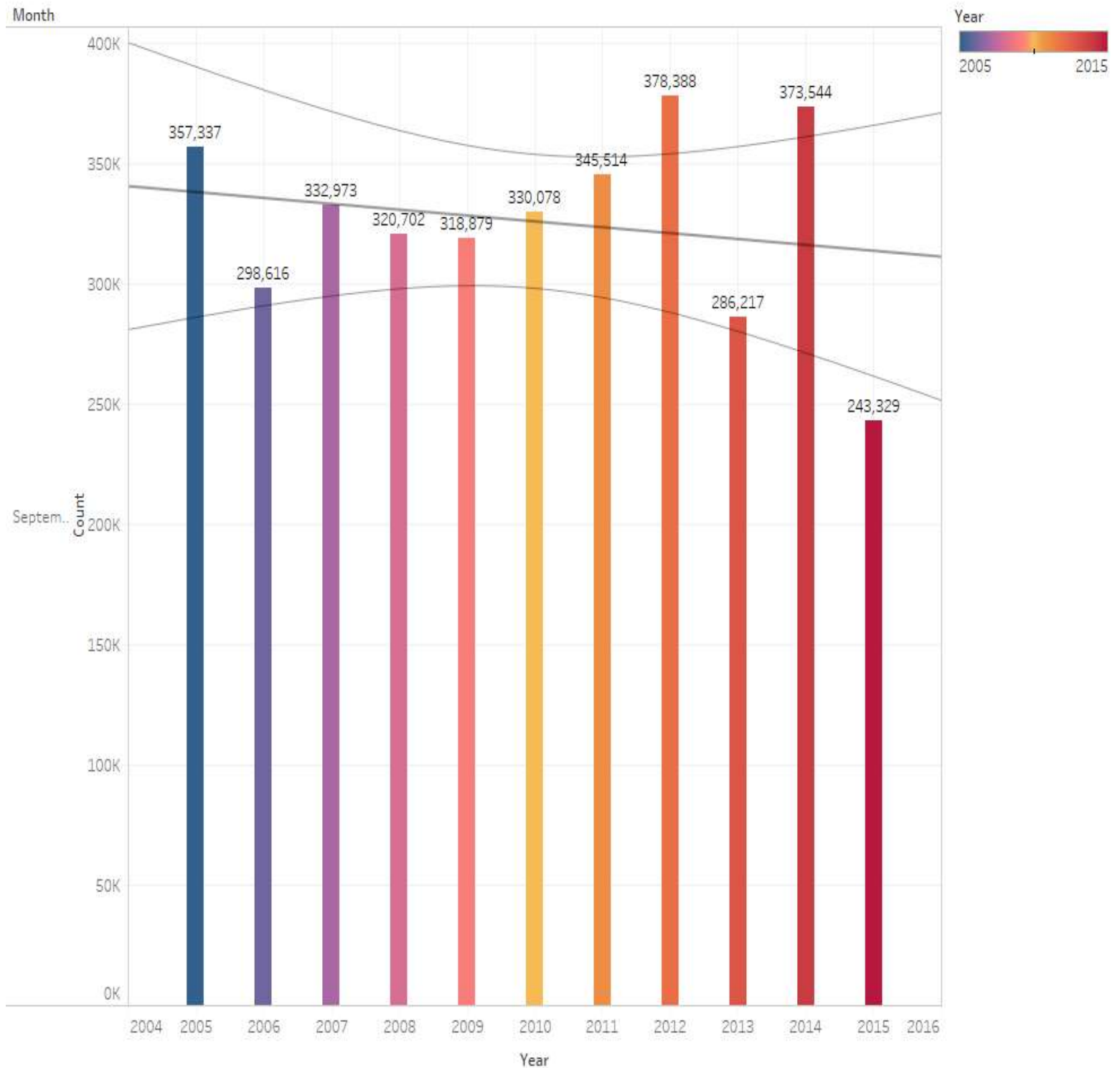
Sum of Count for each Way In. Color shows details about Way In. The marks are labeled by sum of Count. The view is filtered on Way In, which keeps Land, River and Sea.

➤ **Explanation :~**

➤ **Bar chart :~** To show comparison between air, land, river, sea

## 6. Show any monthly seasonality trends.

### MONTHLY SEASONALITY TRENDS



The plot of sum of Count for Year broken down by Month. Color shows details about Year. The marks are labeled by sum of Count. The view is filtered on Month, which keeps September.

➤ **Explanation :~**

- **Bar chart :~** To visualize a sequence of values and to see trends over years, or to forecast future values
- **Trend Lines :~** trend line feature to incrementally construct interactive models of behavior. Trend lines are used to predict the continuation of a certain trend of a variable. It also helps to identify the correlation between two variables by observing the trend in both of them simultaneously.