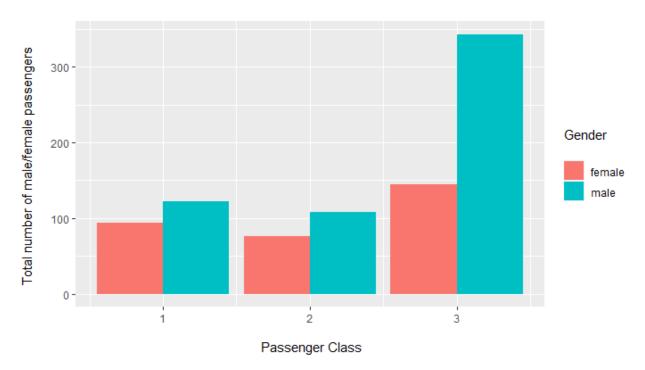
Titanic Dataset Visualization.

I am using six graphs to visualize this data. They are as follows:

1. Bar Graph for Gender VS Passenger Class and Survived VS Passenger Class:

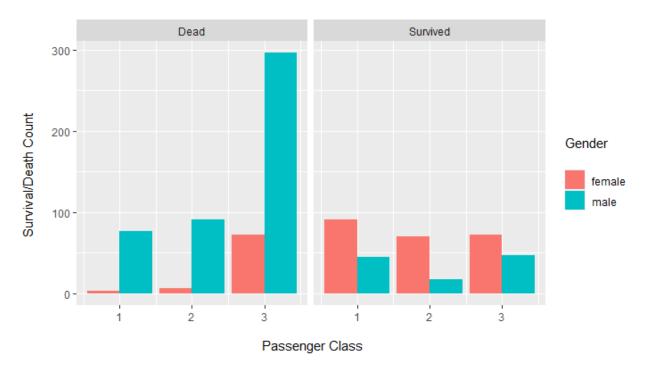
- A bar chart is a graph with rectangular bars.
- The graph usually compares different categories.
- This graph is an ideal fit to compare passenger count that survived based on gender and passenger class.
- Using Bar graphs for Gender VS Passenger Class and Survived VS Passenger Class, I wanted to
 compare the total count of male/female passengers in each passenger class to the total count of
 male/female passengers that survived from each passenger class.
- The below bar graph provides the exact number of male/female passengers present in each passenger class.

Gender vs Passenger Class



• The below graph shows the total count of male/female passengers that survived from each passenger class.

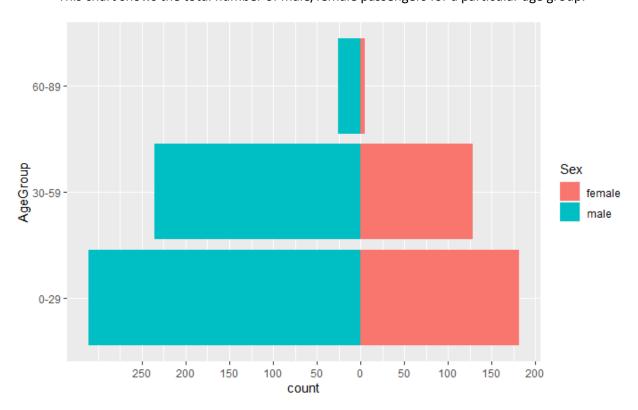
Survived vs Passenger Class



• Considering the above graphs, we can conclude that most female passengers traveling in Passenger Class 1 have survived.

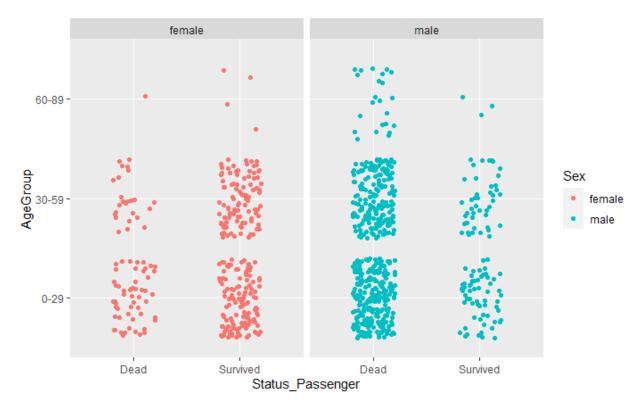
2. Diverging Bar Chart for Total Male/Female Passengers VS AgeGroup:

- To create this chart, I made one extra column for AgeGroup.
- The Diverging bar chart can be handy for comparing values.
- This chart shows the total number of male/female passengers for a particular age group.



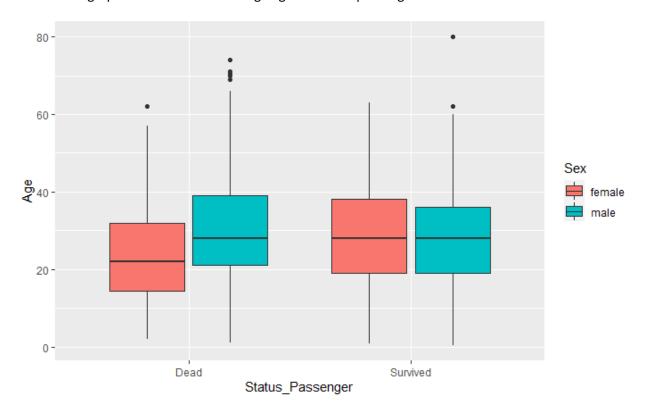
3. Jitter graph for Total number of male/female survivors vs AgeGroup:

- This chart shows us the total number of male/female survivors for a particular age group.
- By the density of points, one can easily find out where the majority of data is located.
- It can be seen that most of the female passengers between the age group of 0-29 survived.



4. Box Plot for Total number of male/female survivors VS AgeGroup:

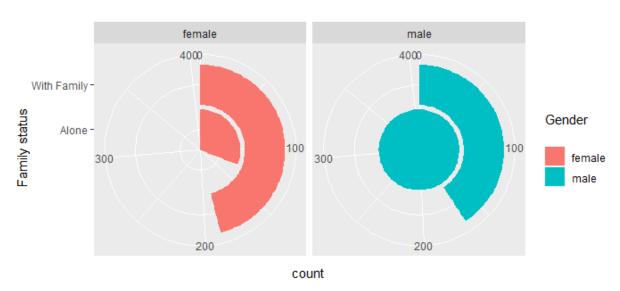
- A box plot can be an alternative to know the average age of people that survived.
- The graph tells us that the average age of female passengers that survived was between 20 30.



5. Pie Chart for Family on board/Traveling alone vs Gender:

- This chart shows the number of male/female passengers traveling with/without family.
- This graph is not an ideal fit for this scenario as we don't get a clear picture of the count.
- It can be seen that many female passengers are traveling with family.

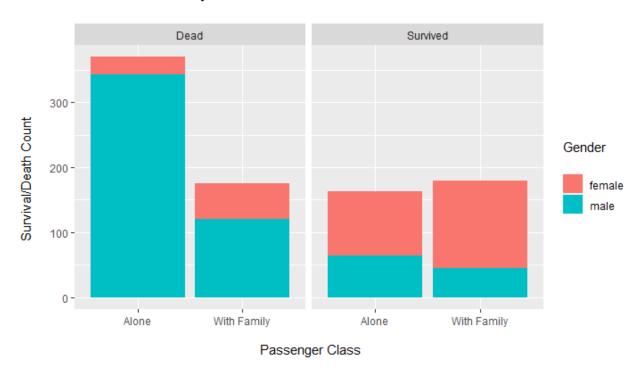
Family details for passengers



6. Stacked Bar chart for Survived VS Family on Board:

- This graph tells us the survival rate of male/female passengers based on their family on board.
- It can be seen that the majority of women traveling with family have survived.

Survived vs Family on board



Finally, considering all the graphs, we can conclude that "Female passengers between the age group of 0-29, traveling with family have the highest rate of survival".