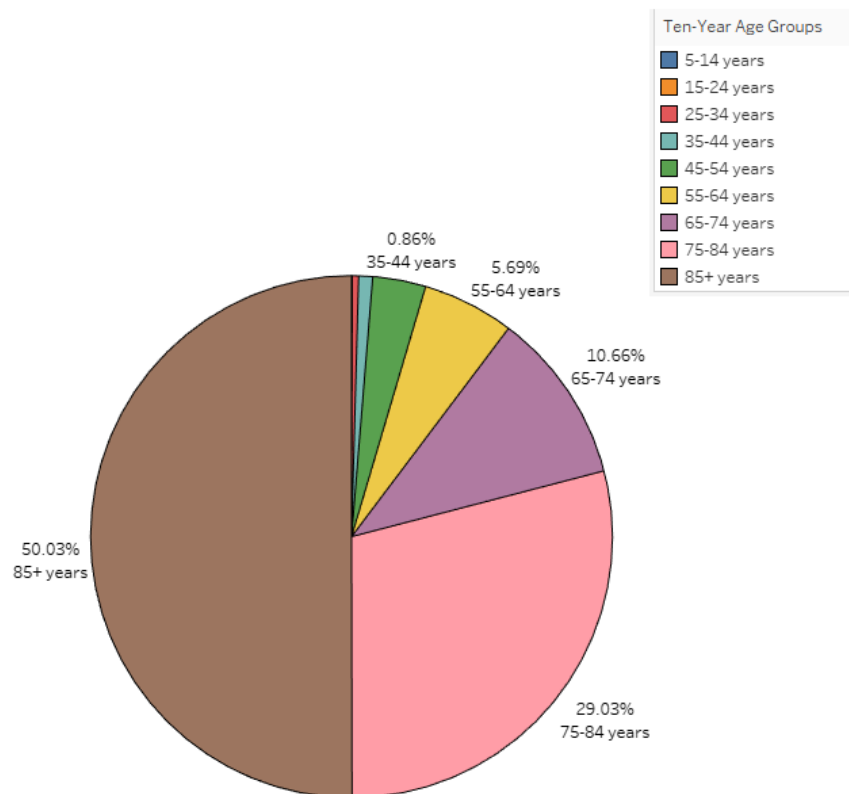


Pie and Bar Chart in Tableau

1. Pie Chart

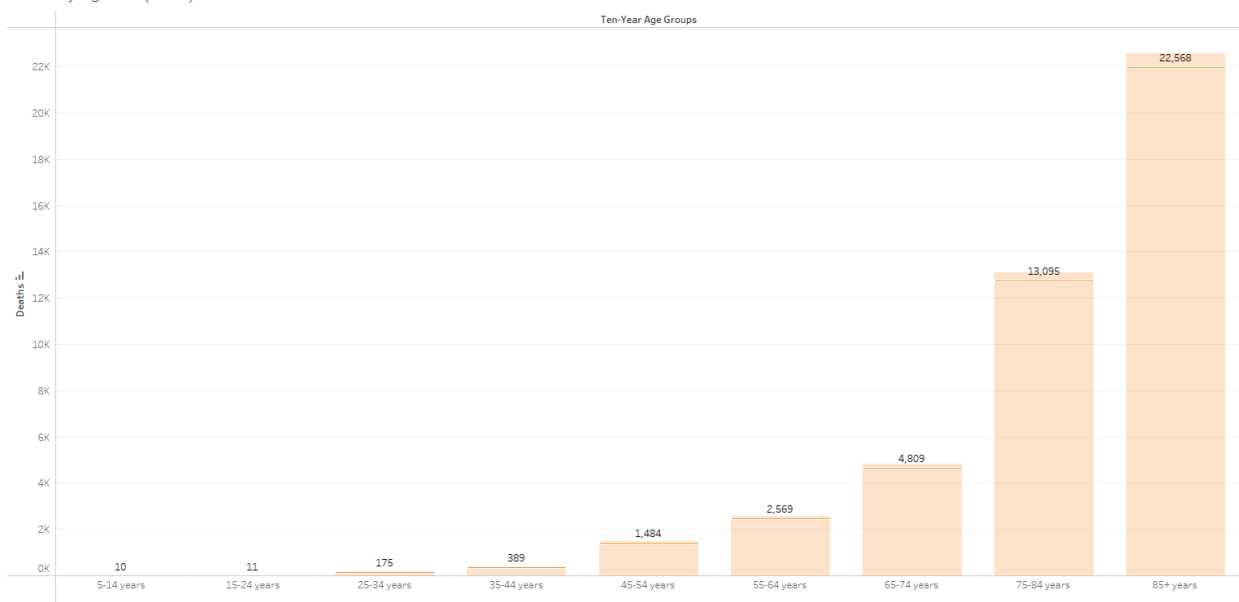
- a. A pie chart would not be a good visualization to represent the data simply due to the many slices. Each slice, in my visual, is made up of the age ranges. There are at least 9 age ranges, and my chart only shows 7 due to the accuracy of the slice.
- b. The text is descriptive in that it portrays the percentage of deaths per age group. The labels aren't too redundant as they help the viewer to understand the differences in size of the slice. The legend shows the color of each age group and is titled Ten Year Age groups. The color of the overall pie chart is at random, there is no color scheme. It doesn't follow a gradient pattern but does use 9 colors. The colors are also not used in a way that they would draw distinction to low death percentages vs high. Each slice of the pie chart is a different size, and they represent the percentage. I believe this visualization is accessible to most all people blind or otherwise. There are so many variations in color that if using a grey scale you can distinguish the colors. The pie chart does teach you that the 2 youngest age ranges are so small they're not even represented on the pie chart.



2. Bar Chart

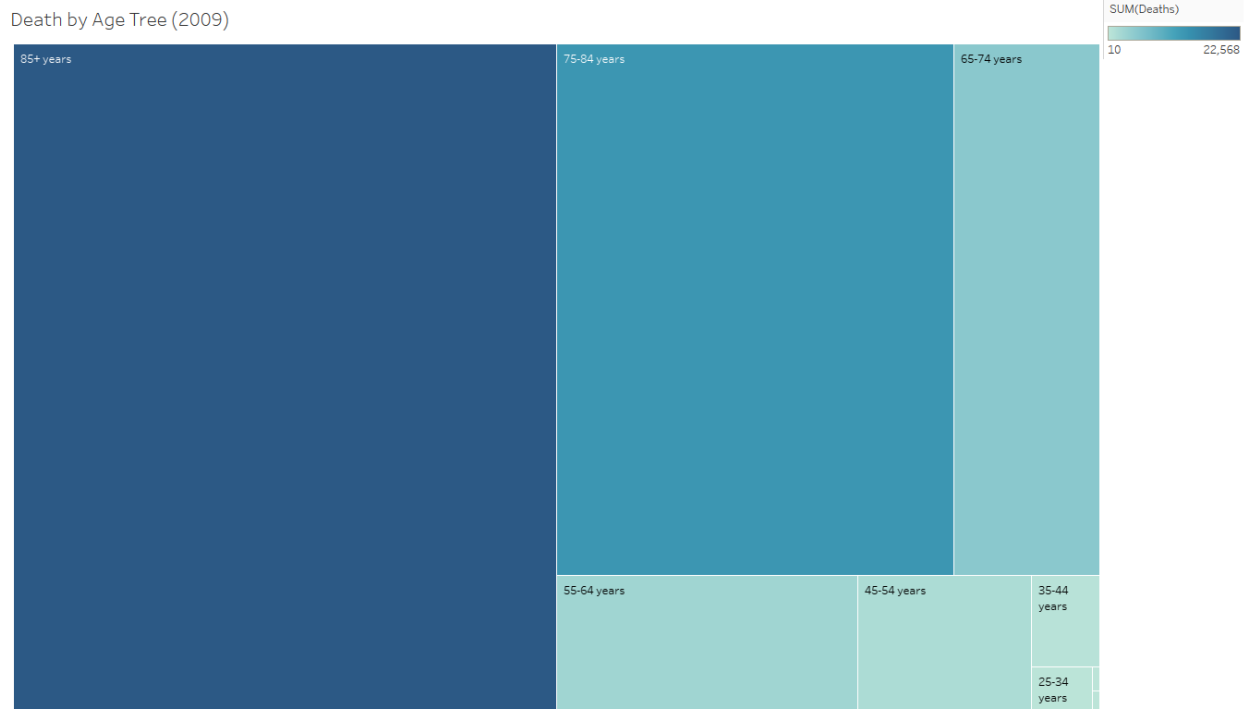
- a. I'm using a column bar chart and I'm counting the deaths by age group.
- b. The text indicates the Deaths on the x-axis and ten-year age group on the y-axis. The numerical text on the x-axis shows numbers that would pair with the actual numbers on the bar chart that would pose death tolls. The y-axis numbers are just simple the ages ranges. The bar chart has been organized in a fashion where the lowest deaths are on the right-hand side, and the highest deaths are on the left-hand side. This allows the viewer to quickly identify which age groups have a higher death toll. There is a single color used but two different shades. The main bar chart is pale in color so you can then see the Gantt chart that corresponds with that bar. Only one color is used in this chart. Different sizes are used as well as grouping by size. There is plenty of white space and the visualization is accessible. The lesson in this bar chart is seeing how the death toll grows by age.

Death by Age Bar (2009)



3. Tree map

- a. The text of the tree map is simple. The title tells you what the chart is to represent, and the age ranges are within each color block. The color is smooth transaction, and the gradient provides a good shift from low deaths to high deaths. It may not be the most accessible to someone with green-blue color blindness. The teaching in this tree map gives you a straightforward look at the death tolls.



[Tableau Link](#)

[Data Immersion 2.3 Tableau Visual](#)