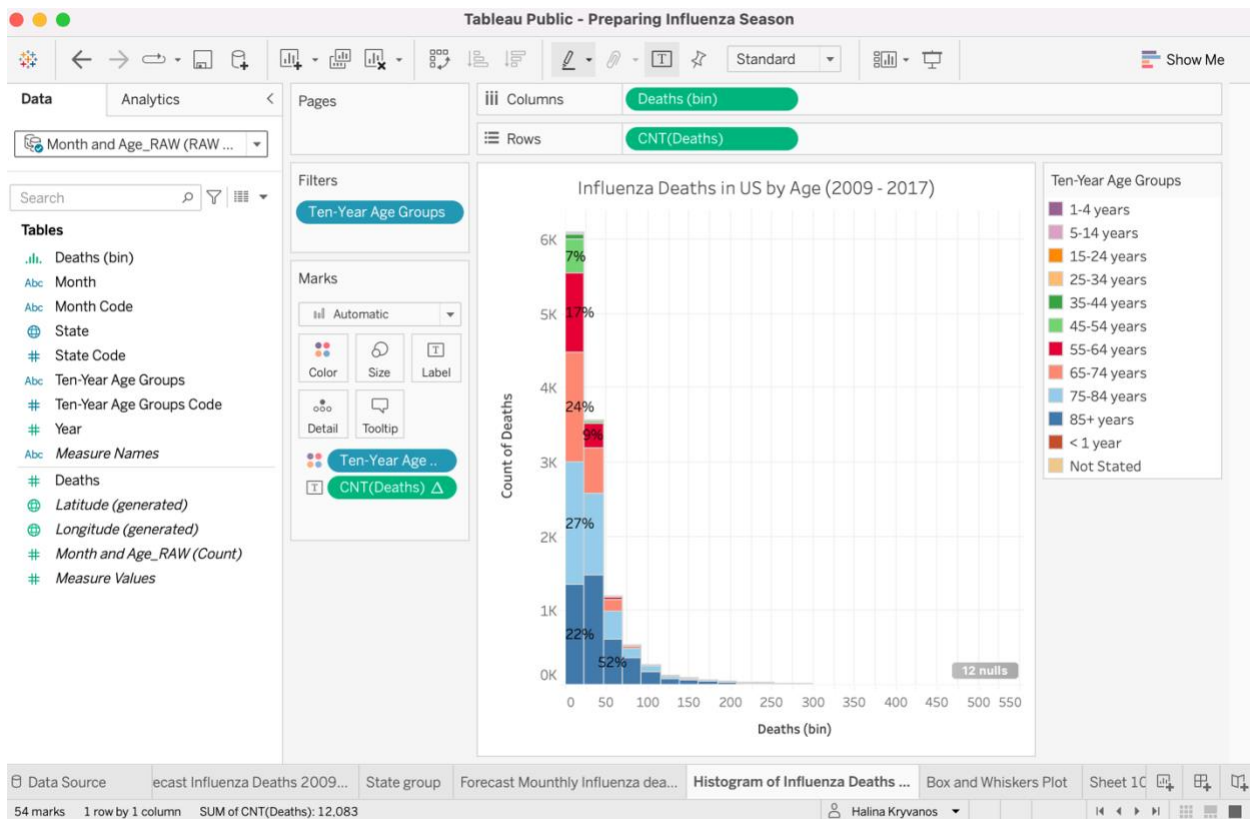


2.5 Statistical Visualizations: Histograms & Box Plots

Link:

https://public.tableau.com/views/PreparingInfluenzaSeason_16604201832430/HistogramofInfluenzaDeathsbyAge?:language=en-GB&:display_count=n&:origin=viz_share_link

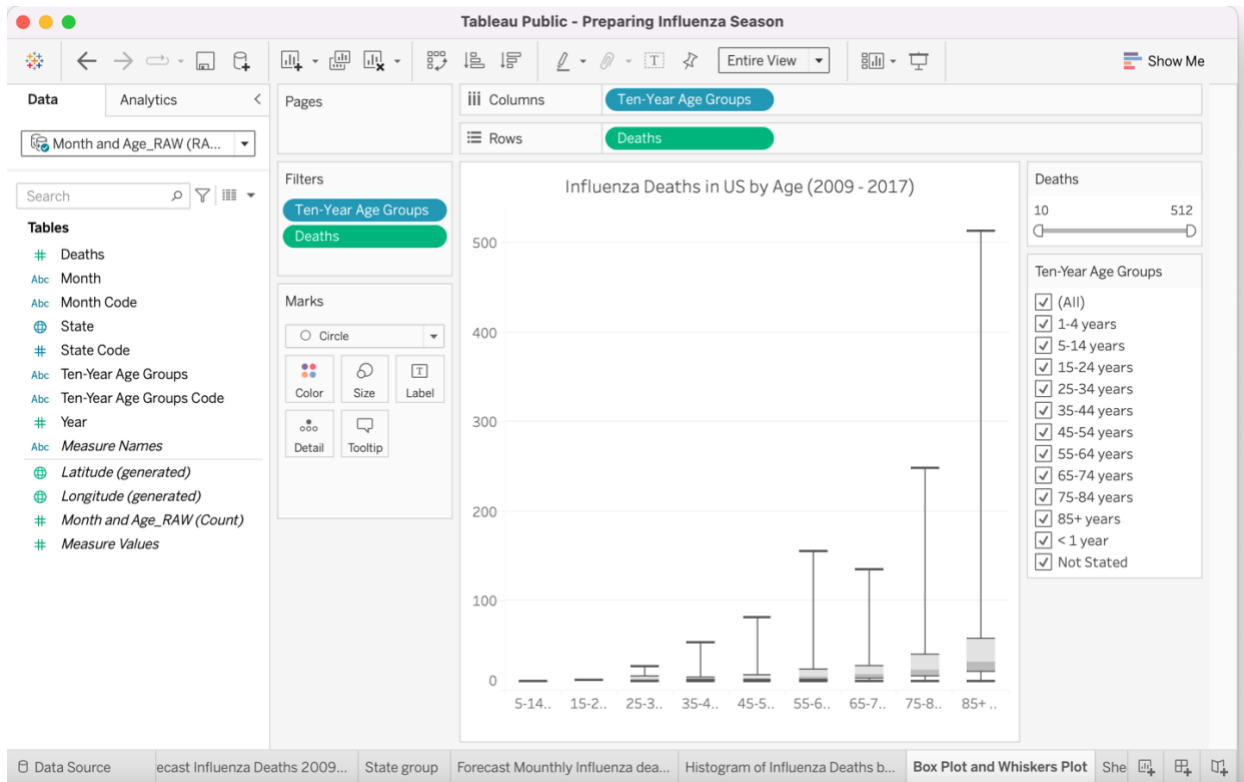
Histogram



Are young and old populations more vulnerable (because they have more deaths)?

The histogram implies that the most vulnerable population (comprised of older age groups 65 and up) are responsible for the majority of ILI deaths. There were 0 deaths in children under 5 years old.

Box-and-Whisker Plot



Explain what the box plot tells you that the histogram can't.

The boxplot displays the minimum, median and maximum death (counts) by age group. The interquartile range of deaths is highest in older (vulnerable) age groups, and the majority of outliers are found in the vulnerable age groups.

Visualization Checklist

Text

- Are the title and text descriptive enough? (i.e., do you understand what the visualization is trying to convey just by looking at the title and text?) **Yes**
- Are there text labels? **Yes**
- Does the text portray any redundant information that could be gotten rid of? **No**
- Do colors, shapes, and size scales come with legends? **Yes**
- Are the abbreviations used universal or explained? **Yes**

Color

- What does the color scheme signify? Each age group (increments of 10 years) is represented by different colors.
- Are there more than five colors? Yes
- Does the color scheme make sense? Are colors analogous, complementary, monochromatic, or intuitive? The color scheme is complementary and easy to differentiate between age groups
- If color is used to draw attention to important information, is the darkest color representing the most important information? Yes, the most vulnerable group is the darkest color

Other

- Are different sizes used? If so, is there meaning behind the sizes? Yes, each bar in the histogram comprises of the different age groups expressed as a percentage.
- Are there groupings in the data that can be portrayed through color, size, or position? Yes, the age groups are displayed by color, deaths are grouped by ticks of 25.
- Is there (enough) whitespace? Yes
- Is the visualization accessible? Yes
- Does the visualization teach you something? Yes, the visualization makes it very easy to understand that vulnerable people (65+) account for the most death counts.