

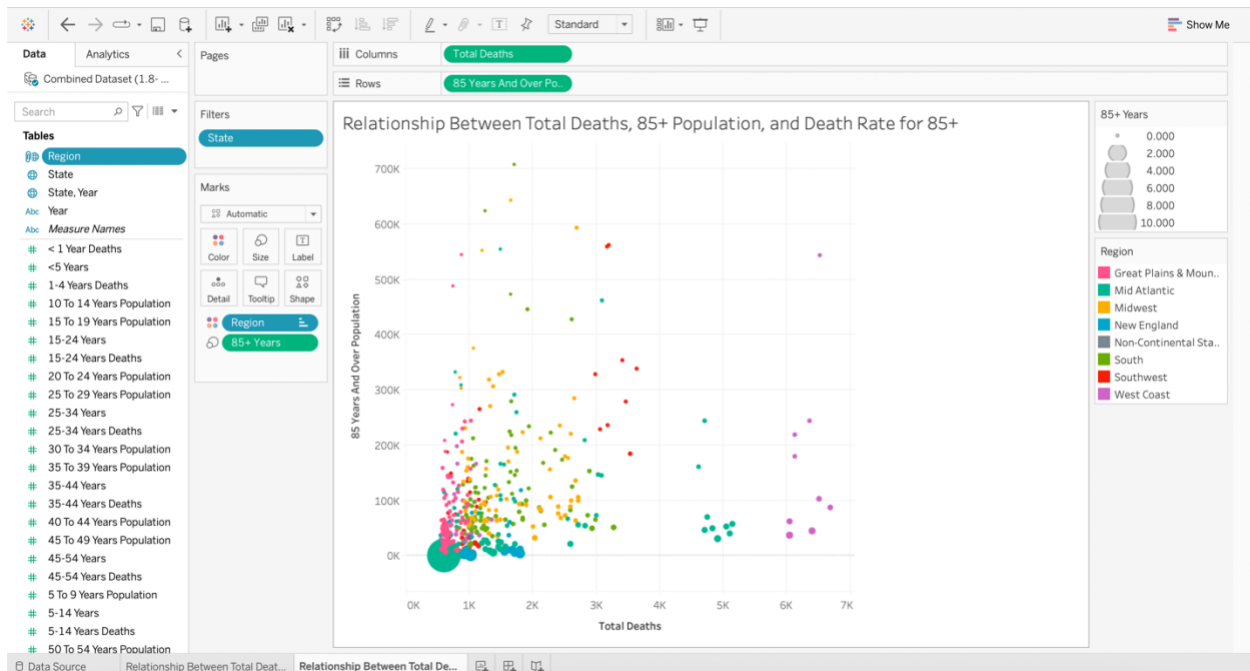
Statistical Visualizations: Scatterplots & Bubble Charts

Scatterplot [\(click here to view\)](#)



The graph shows an r-squared value of 0.0860 (rounded to 4 decimal places), which when compared to the correlation coefficient from Exercise 1.8 of 0.2933 (rounded to 4 decimal places), is precisely the square of that correlation coefficient. Many of the values stray quite far from the line, displaying a fairly weak correlation between the total deaths and the population over the age of 85 (perhaps selecting a broader age range would have been better).

Bubble Chart [\(click here to view\)](#)



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?)

Both titles accurately describe the data shown.

- 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.

Color

- What does the color scheme signify?

The color gradient indicates the region of the state.

- Are there more than five colors?

Yes as there are more than 5 regions listed.

- Does the color scheme make sense? Are colors analogous, complementary, monochromatic, or intuitive?

Yes, the color scale follows the hue circle from east to west by region, with the non-continental states in gray.

- If color is used to draw attention to important information, is the darkest color representing the most important information?

The color darkness does not change too much.

Other

- Are different sizes used? If so, is there meaning behind the sizes?

The sizes indicate the death rate of people over the age of 85.

- Are there groupings in the data that can be portrayed through color, size, or position?

The colors indicate the region of the state and the size indicates the death rate by state.

- Is there (enough) whitespace?

Yes.

- Is the visualization accessible?

Yes.

- Does the visualization teach you something?

The visualization teaches you how the population of over 85 residents in a state relates to the overall death count and death rate of said age group.