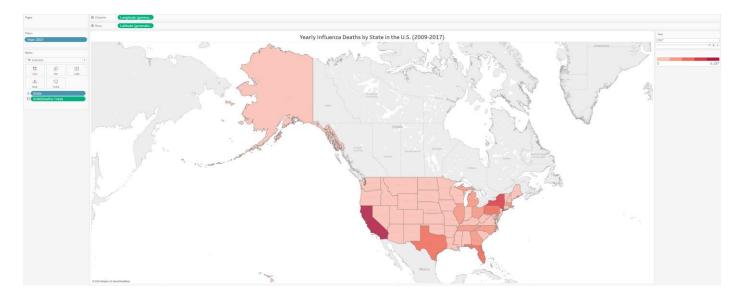
Spatial Analysis

Link:

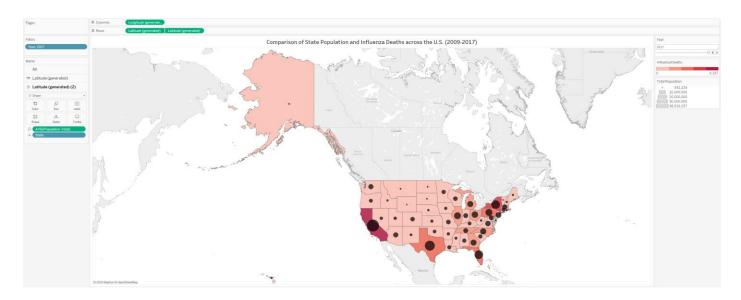
https://public.tableau.com/views/DataImmersionAchievement2Ex2_7SpatialAnalysis/Story1?:language=en-US&publish=yes&:sid=&:display_count=n&:origin=viz_share_link_

1) Choropleth Map:



I decided to show the yearly influenza death total for each state. I have added a filter which
utilises a slider for the year shown to make the map interactive. A user will be able to see
how the total yearly influenza death count for each state changes over time (albeit very
slightly).

2) Combination Map:

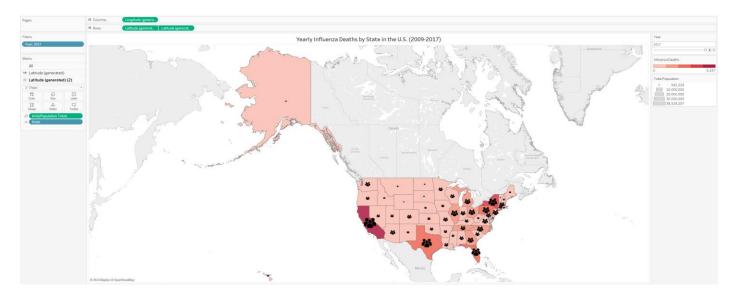


3) Visualisation Checklist - Combination Map

Text	
Are the title and text descriptive enough? (i.e., do	Yes. The title clearly states the map is a
you understand what the visualization is trying to	comparison of state populations and state
convey just by looking at the title and text?)	influenza death counts.
Are there text labels?	There are default state names added by
	Tableau to large enough states (but these
	are difficult to read).
Does the text portray any redundant information	No. Legend titles are needed to distinguish
that could be gotten rid of?	what colour and size represents.
Do colours, shapes, and size scales come with	Yes.
legends?	
Colour	
What does the colour scheme signify?	Total influenza deaths for the corresponding
	state each year (filter added to see changes
	across time).
Are there more than five colours?	No.
Does the colour scheme make sense? Are	Yes - monochromatic.
colours analogous, complementary,	
monochromatic, or intuitive?	
If colour is used to draw attention to important	Yes – darker shades of red show states with
information, is the darkest colour representing the	greater influenza deaths.
most important information?	
Other	
Are different sizes used? If so, is there meaning	Dot sizes represent total population of each
behind the sizes?	state for a given year.
Are there groupings in the data that can be	Yes. They have been.
portrayed through colour, size, or position?	
Is there (enough) whitespace?	Yes.
Is the visualization accessible?	Yes.
Does the visualization teach you something?	Yes. It can be determined quickly that there
	is a strong correlation between the states
	with the largest populations and most
	deaths from influenza.

Updated Visualisation:

Inspired by one of the submission examples, I believe it is best to use an icon that represents population size more intuitively. That change is shown here:



Note – it may be more interesting to view the relationship between influenza deaths and overall mortality rate from influenza. This might provide more unexpected insights. At the moment, this graph's insights shouldn't be considered groundbreaking.

4) Spatial Trends:

a) What states or regions are the highest? The lowest?

- o California has the greatest population and number of influenza deaths (2017)
- Wyoming has the smallest population whilst various states including Alaska, Vermont, and North Dakota, have a death count of 0.

b) How does time impact those trends?

It seems that switching the displayed year results in minor changes to only some states colour or population size. This is a predictable outcome. However, during 2014 several states on the eastern side of the country, such as Illinois, Florida, and Virgina, darken in colour. This shows that there was a spike in influenza-related deaths, but only for this year it would seem.