1. rika to re structure folder: add jupyter notebook

2. team to git pull origin master

3.

Jam’s story:

Is the measles rate increasing in the US?

* Yes: Measles rate for the US as a whole form 2011 -2019 (SHOW CHART)
  + NOTE THE DRAMATAIC INCREASE IN THE FIRST HALF OF 2019

Is there a specific area in the US where there are more of an outbreak

* Display the US chart again with the top 5 states as a stacked bar with measles outbreak (2018-2019)
* Display the zoomed in version of just 2018 and 2019

Are these cases indigenous or imported?

* 2018 -2019: stacked bar chart that shows imported vs indigenous

Conclusion: it is both

Amanda’s story:

Have we seen this phenomenon before?

* Yes: before vaccination was developed:
  + Display the chart for 1928 – 1950
  + Display the next part of the same chart but for 1950 – 1970
* Note the dramatic decline due to the implementation of the vaccine:
  + 1970 - 2002
* Again from 88 – 92:
  + This was when they realized that they needed a second dose of the MMR vaccines for effective resistance to the Measles
* Top 5 states consistently included in subsequent outbreaks
  + <<charts>>

rikas story:

How is the immunization rate in the US?

> generally stable at the 90 percentile

How is the immunization rates in the top 5 states with measles outbreaks

* Significant dips in immunizations at different years but does not correlate with the measles outbreak (display function)
* Conclusion: lack of immunization is not the main cause of the outbreaks.

4. Chinedu’s story:

How is the measles rate in the rest of the world?

* Generally increasing within since 2011 (line graph)

What are the top 5 countries that are high in measles cases?

* Display the top 5 bar chart

Lets investigate the country with the highest rate:

* Display india’s chart for 2011 2019

CONCLUSION:

NO ONE EXACT CONTRIBUTING FACTOR TO THE INCREASE IN MEASLES OUTBREAK IN THE US:

1. DUE TO THE ANTIVAXING MOVEMENT

2. DUE TO THE TRAVEL TO COUNTIES WITH HIGH RATES OF MEASLES OUTBREAKS

3. ALTHOUGH THE IMPORTING COUNTRIES DO NOT EXACTLY MATCH OTHER THAN INDIA, IT ONLY TAKES ONE PERSON TO INFECT OTHER WHO ARE NOT VACCINATED

FINAL CONCLUSION:

WE WOULD RECOMMEND THAT YOU EITHER DO NOT TRAVEL TO THESE COUNTIES OR GET IMMUNIZED AT LEAST 2 WEEKS BEFORE GOING:

<HOPEFULLY GET A HEAT MAP OF THE WORLD>

This most current spike is ending <<show graph April, may, june>>

Just like it did 30 yrs ago when the last spike occurred.

If you go back and look at the 1950-2002 chart, you can see that there has been small spikes ever since the development of the vaccine in 1971.

These spikes can possibly be due to wars / world crisis events