Hi my name is Tejas and now I will talk about the interactions and also give a demo of our visualization.

While developing any interaction to be performed on the visualization, one must be aware about the Interaction operator i.e. the operation performed and about the interaction operand i.e the space upon which the operator is applied. I will be talking about it in the demo.

On your screen you can see our visualization which is a choropleth map. As Julia already mentioned that it only makes sense to show the number of active cases with respect to the population of the country, we have color graded the countries based on the metric which I mentioned just now.

We intended to keep our visualization pre attentive and by just looking at the map, one must be able to decide whether the country is currently safe to travel or not.

Now let’s look at the interaction operators. First, we have Navigation, which helps you pan across the map. Also, you can change the level of detail i.e. you can zoom to get detail of a specific county

When you hover over any country you get the details of the total population of the country, the total number of active cases, confirmed cases, recovered cases, the total number of deaths and the percentage of active cases with respect to the population of the country.

Next interaction we have is Filtering which is nothing but reducing the volume of the displayed data .We have the date slider at the bottom which is used for dynamic query specification and helps to choose a specific date and the values are updated immediately.

Also you can see the animation of how the cases increased across the globe

Another interaction we have is Selection which helps you to isolate a subset of the graph. You can either use box selection or lasso selection. Let’s take box selection and select Europe. We have also encoded our color bar to change its scale based on the maximum and minimum value for the specified date. So as I change the dates, only the selected portion will be highlighted. You can also reset the view.

Now we will look at the interaction Operands or the interaction Space. In case of our visualization, the interaction space we have is the screen space. So, when you are zooming into a portion, it is the screen space that is being manipulated. However, when you change the date, we change the data value space and the values modified accordingly. Finally, we have display. Our visualization is light weight and works well even with displays with average computing resources like memory and processors.