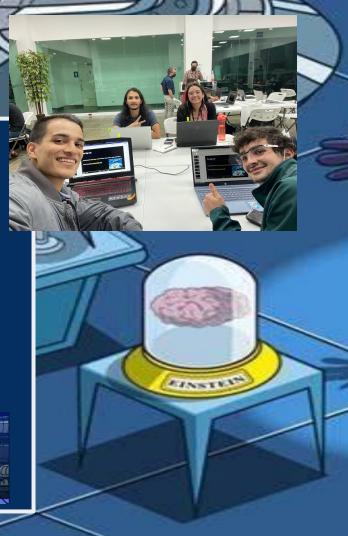
# The Big Lab

### **Group Members**

Betsy Loaiza / Jean Mena / Marco Reveiz / Jorge Andrés Blanco

Theme Song: <a href="https://youtu.be/Pt28Ex-ta0E">https://youtu.be/Pt28Ex-ta0E</a>





### **★** [Problem]

How prevention methods (social distancing, wearing mask, washing hands)
affect the infection curve in a community

#### **★** [Intervention]

 Social distancing, wearing mask, washing hands and the ones without any prevention methods

### $\star$ [Goal(s)]

- Analyze and visualize how the disease propagates amongst groups with different behaviors in a population
- Set a ranking of the prevention methods

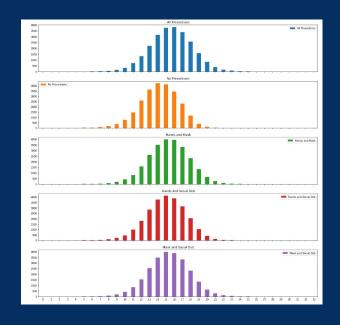
### Our code

- ★ We added variables to manage the groups in our population based on a counter. Plus we changed the risk of infection of each individual in the population based on the usage of prevention methods and how much they decreased the risk of infection.
- ★ Group Github Repo Link <a href="https://github.com/revv-tech/Hackaton TheBigLab.git">https://github.com/revv-tech/Hackaton TheBigLab.git</a>

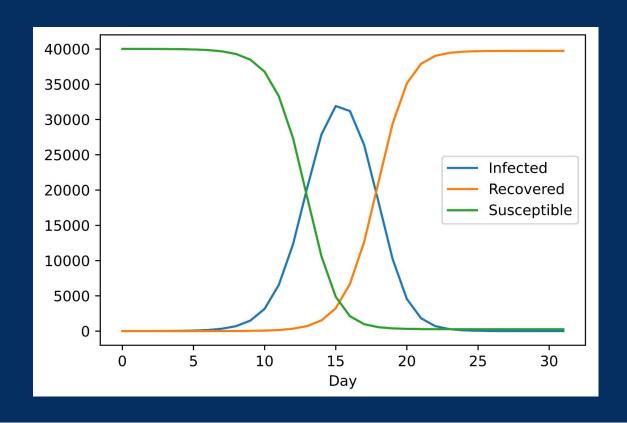
### Our code

- ★ The main function of our code was one called set\_data\_lists(), and its purpose was to divide in groups our total population based on the person's state. We called this function for each day.
- ★ We manipulated the data using pandas dataframe and stored them using csv files.
- ★ We developed the plots using matplotlib and pandas.

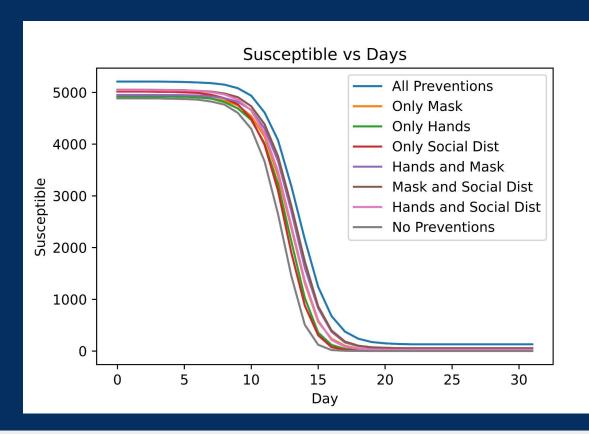




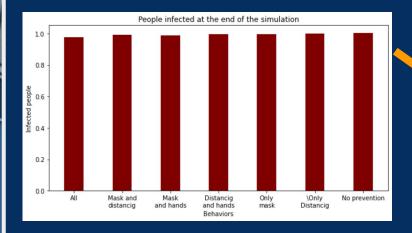
## Results

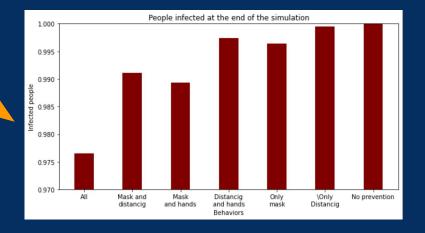


## Results



# Results





# Thank you!