**BA 353: Online Class Activity 5**

In this assignment, you will read an article and watch a video about how simulation can help us understand the spread of the COVID-19 virus.

1. Read and watch the simulations from this article in the Washington Post. <https://www.washingtonpost.com/graphics/2020/world/corona-simulator/>
   1. What is the name of the fake disease in the article?
   2. In the first simulation with 200 dots – Free-for-all, everyone gets sick pretty quickly (but, unrealistically, no one dies). In the second simulation – Attempted Quarantine – eventually everyone gets sick, why?
   3. In the third simulation – Moderate Social Distancing – about how many people remain healthy? I say “about” because each simulation is live and will produce slightly different results.
   4. In the fourth simulation – Extreme Social Distancing – about how many people remain healthy?
   5. Assume that healthcare capacity is about half way up the graph. What’s the problem with the Free-for-all?
2. Watch the simulation from Reddit here: <https://www.reddit.com/r/dataisbeautiful/comments/fqf9tv/working_on_a_covid19_simulator_heres_a_few/>
   1. For the Baseline simulation that starts at about 0:20, what happens to healthcare capacity? How many people die?
   2. Repeat a. for Reduced Interaction.
   3. Repeat a. for Lock-Down.
   4. Repeat a. for Self-Isolation, estimating deaths from the graph.