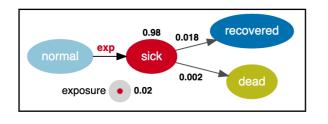
Particle People

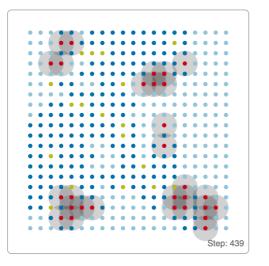
How to Use the Model

A computer model is a helpful application that we can use to represent and study complex real-life problems.

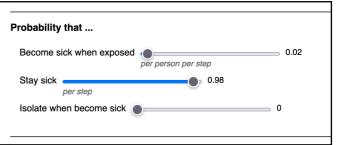
Particle People was designed to show how Coronavirus and other diseases spread through a population. Use this guide to help you answer the questions.



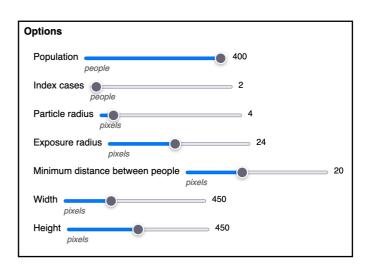
This chart shows the probability of getting sick, recovering and dying -



Click "run" and you can see how the virus spreads across the population.



These options let you change the probability of becoming sick, staying



These bonus options let you set all sorts of things such as population



Particle People

Activity: Model Management

Simple - set the model to 'simple' to answer these questions

1. Try increasing the probability of people becoming sick. What changes?

2. What happens when you decrease the probability that people stay sick?

3. Find two options that reduce the spread of the virus when you increase them. What are they and why do they work?

Advanced - set the model to 'advanced' to answer these questions

4. Run the model. Do you think this advanced model is more realistic? Why?

5. Play with the 'House and School' options. What happens when houses and schools are larger? How could this affect health services (e.g. hospitals)?

technocamps

Particle People

Discussion: Computer Modelling

This is a space for you to consider your thoughts about computer modelling. There is no one right answer to any of these questions but you may wish to discuss them with the person next to you.

What are the benefits of using computer modelling?

Are there any downsides or limitations to computer modelling?

