Data Sources

Source Title	Description	Purpose	Notes	Link
Schiphol API				https://data.schiphol.nl/dataset/flight-api
NS API				https://apiportal.ns.nl/startersguide
Databronnen Covid-19 (RIVM)	Broad collection of different sources			https://www.databronnencovid19.nl/
Google Maps API		Access data on how busy stores are		
CoronaWatchNL	Numbers are collected from the RIVM daily			https://github.com/J535D165/CoronaWatchNL
WHO	Data from the World Health Organization			https://www.who.int/data/gho/info/gho-odata-api
JIS Data for maps				

Useful Models

Name	Notes	Link
Epidemic Simulation	- Lots of great parameters - Allows you to visualize simple vs. community vs. central models	https://prajwalsouza.github.io/Experiments/Epidemic-Simulation.html

Outbreak	- Explanation of simple SIR model	https://meltingasphalt.com/interactive/outbreak/
Corona Simulator	- A bit too simple, but has github link	https://www.coronasimulator.com/
Epidemic Calculator	- Very specific parameters - Graphical	http://gabgoh.github.io/COVID/index.html

Research

Name	**Notes**	**Link**
Insights into agent based modeling		http://jasss.soc.surrey.ac.uk/20/3/2.html
An explanation of three different basic kinds of epidemiological models	- basic mathematical model for SIR provided	http://www.mtholyoke.edu/~ahoyerle/math333/ThreeBasicModels.pdf
Stochastic Simulations of a Spatial SIR Model		https://mtbi.asu.edu/sites/default/files/stochastic_simulations_of_a_spatial_sir_model.pdf
CSS The Game of Life		https://css-tricks.com/game-life/
Multi-Level Agent Based Modeling		https://arxiv.org/pdf/1205.0561.pdf
A Multi-Level Multi-Agent Simulation Framework in Animal Epidemiology		https://hal.inria.fr/hal-01536640/document
Why outbreaks like coronavirus spread exponentially, and how to	- Similar to Outbreak resource, explanation of basic SIR models	https://www.washingtonpost.com/graphics/2020/world/corona-simulator/

“flatten the curve”		

Frameworks and Platforms

Name	**Notes**	**Link**
Yaktor		https://github.com/SciSpike/yaktor
GAMA		https://gama-platform.github.io/
Bodylight.js		https://bodylight.physiome.cz/
Agent Maps		https://github.com/noncomputable/AgentMaps

Parameters to Consider

Parameter/Stat	
Susceptible	
Exposed	
Infectious	
Removed	
Recovered	
Hospitalized	
Fatalities	
Basic Reproduction Number	

Initial percent infected	
Total population	
Virality	
Mortality	
Incubation Period	
Population Density	
Travel between communities	
Travel between countries	
Percent of people obeying social distancing	
Central locations (grocery stores)	
Hospitalization period	
Time of hospitalization	
Chance of visiting central locations	
Hospital capacity	
Rule obedience	