

Corona Sim

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Main Goal Our main goal is to write a webapp, which validates and explains different countermeasures against covid-19 by gamification.

Current Work

1. Research
 1. what tools are useful for doing such a simulator
 2. impact countermeasures have on people
 3. how infectious outbreaks can be modelled
 4. etc.
2. Course of action.
3. Setup repository for version control and project management.
4. Designed [the specification](<https://gitlab.com/labprepare/coronasim/coronasim/-/wikis/Design>) for the simulator.
5. We started working on a first prototype and a automation for testing our code and building a release file(CI/CD system).
6. The current status is available on <https://gitlab.com/labprepare/coronasim/coronasim/-/tree/develop>

Main Resources ### Godot

1. Godot Project Page: <https://godotengine.org/>
2. Documentation: <https://docs.godotengine.org/en/stable/>
3. Pathfinding in a Tilemap:
<https://godotengine.org/qa/1790/how-to-implement-pathfinding-with-a-tilemap>

Model

1. Networkscience with focus on epidemics:
<http://networksciencebook.com/chapter/10#introduction10>

Further Reading ### Paper

1. [Wirksamkeit nicht-pharmazeutischer Interventionen](<https://gitlab.com/labprepare/coronasim/coronasim/uploads/e0ff2f07d5cb1884f5bf2e2138c5be96/Rapid-Review-NPIs.pdf>)

Other Simulations

1. https://github.com/cool-RR/grid_royale
2. 3Blue1Brown Simulations:

1. <https://www.youtube.com/watch?v=gxAaO2rsdls>
2. <https://www.youtube.com/watch?v=Kas0tlxDvrg>
3. <https://player.vimeo.com/video/6590604>
4. <https://covid-simulator.com/>
5. Gleanviz predict the future based on real world data: <http://www.gleanviz.org/>
6. [TU COMA
Homework](<https://gitlab.com/labprepare/coronasim/coronasim/uploads/87e36b42135c0d2955f6d7b61826a9bd/Projekt.pdf>)
7. <https://isis.tu-berlin.de/course/view.php?id=18850>

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