# Decision Intuition Support

This tool was created by Simply Rational GmbH in order to help individuals and medical personnel to interpret the results of SARS-CoV-2 Antigen-Tests.

This tool calculates the positive and negative predictive values based on test-specific sensitivity and specifity and the prevalence in the population.

The tool was programmed with the shiny package and is hosted on shinyapps.io. To run the application, clone the repository and run app.R. ui.R contains the code relating to the user interface. server.R contains the server related code.

* \data contains a csv of the current list of SARS-CoV-2 Antigen tests that are listed by the Federal Institute for Drugs and Medical Devices (<https://antigentest.bfarm.de/ords/f?p=110:100:6620644776979>:::::)
* \txt\_content contains the tutorial text (intro.R) and other HTML-formatted explanations about the tool
* \utils\incidence.R loads the current incidence data provided by the Robert-Koch-Institute
* \utils\load\_test\_data.R loads and cleans the list of SARS-CoV-2 Antigen tests mentioned above.
* \visualize creates the plot shown in the main panel of the tool and calculates the data required.