Extrapolated COVID-19 Infections

Ported from @psteinb's excellent chart for Dresden, Germany

Then ported again from @tkphd's chart for Montgomery County, Maryland

District of Columbia, USA

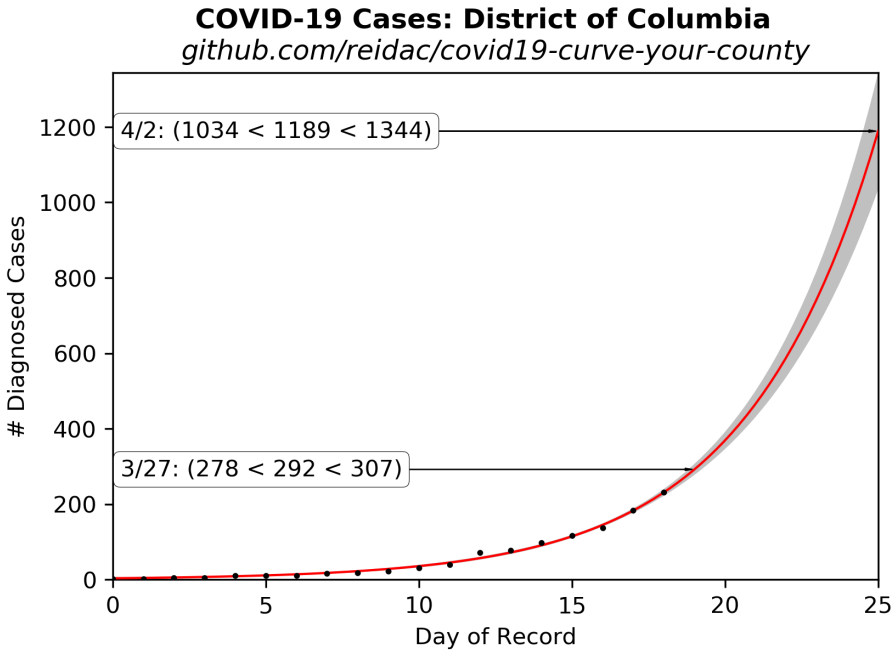

Figure 1: DC

Data source: https://covidtracking.com/api/states/daily?state=DC

Reproduce This!

1. Install Python 3.6
2. Install dependencies

   ```
   $ conda install matplotlib numpy pandas pip scipy
   $ pip install https://www.astro.rug.nl/software/kapteyn/kapteyn-3.0.tar.gz
   ```

   I found that the default kapteyn would not install in Python 3.7 or greater, but I was not specifying 3.0. Your mileage may differ.

3. Run the `exponential.py` script.

   ```
   $ python exponential.py
   ```

For this version, the script will make a GET query to the Covid tracking site and pull down the relevant data.

Gaps in the data are OK, just provide what you have. You will want to edit the script to set the proper place-name and URL in the title.

4. Share your findings to help others assess the spread of SARS-CoV-2, and to gauge the effectiveness of our collective response.