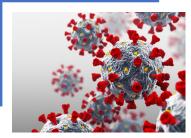


### "Strategic Advice in an Era of Unprecedented Change"









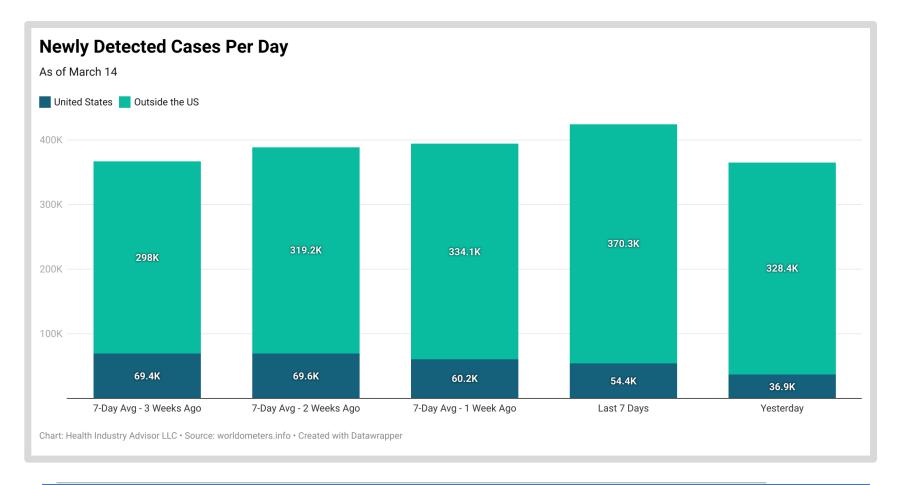
Covid-19 "Vital Signs"

Issue # 301 March 15, 2021



## Newly Detected Cases Per Day

In the US, 7-day new case rates dropped more than 10% week-over-week and 22% in the last two weeks. Worldwide cases trended up over the past three weeks.

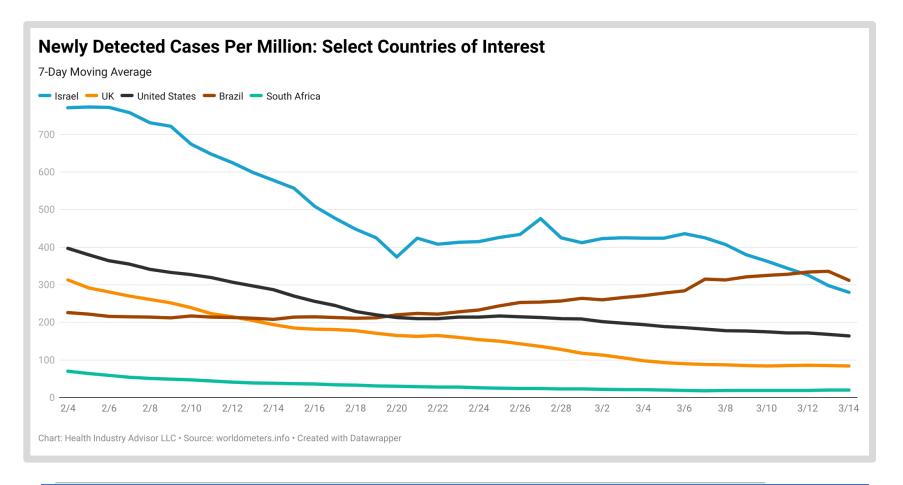






### Newly Detected Cases / Million

Israel's vaccination efforts are paying dividends, as new case rates continue to decline. Brazil's low vaccination rates are allowing the new variant to spread.

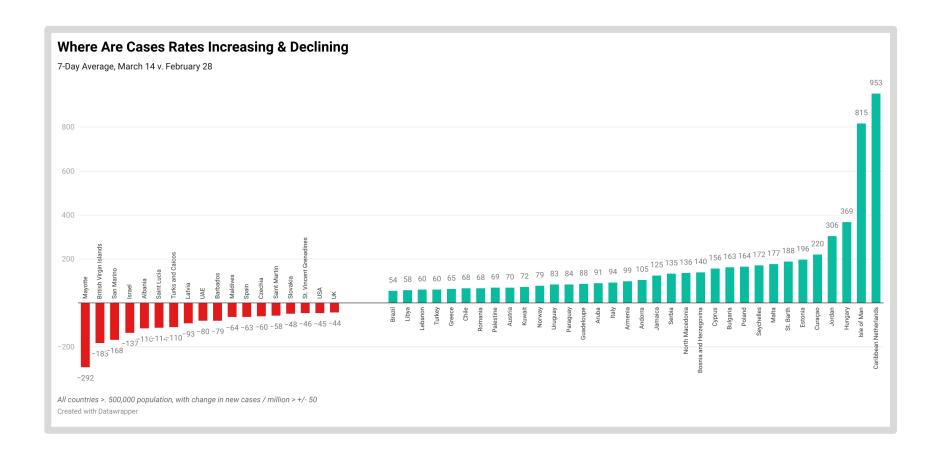






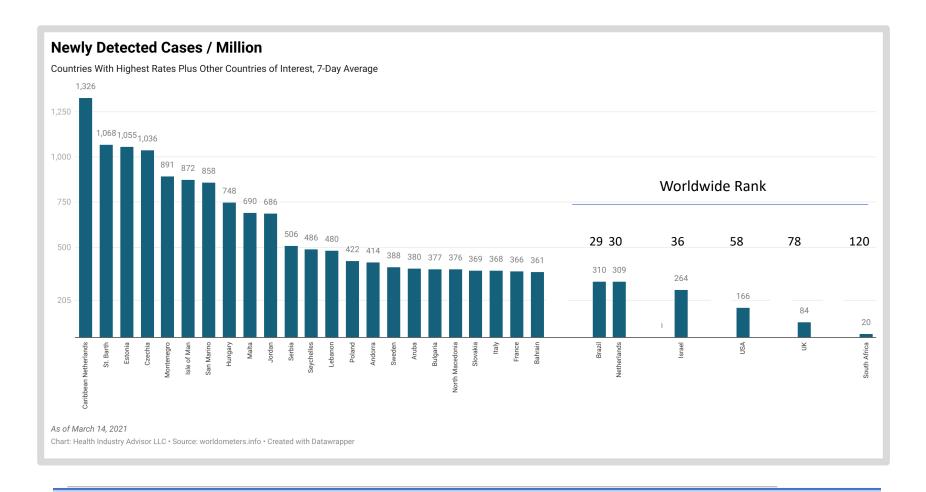
# Where Are Case Rates Increasing or Declining?

Increasing case rates are found in several smaller countries although Brazil and Italy raise concern..



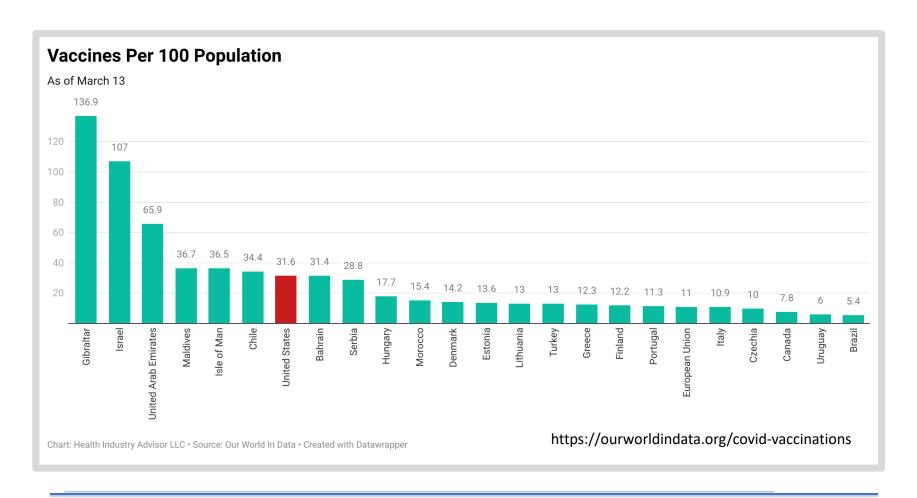
## Highest Current Case Rates Worldwide

The US ranks 58<sup>th</sup> worldwide in new daily cases per capita. Brazil, the United Kingdom, and South Africa, despite new variant concerns, rank 29<sup>th</sup>, 78<sup>th</sup>, and 120<sup>th</sup>, respectively.



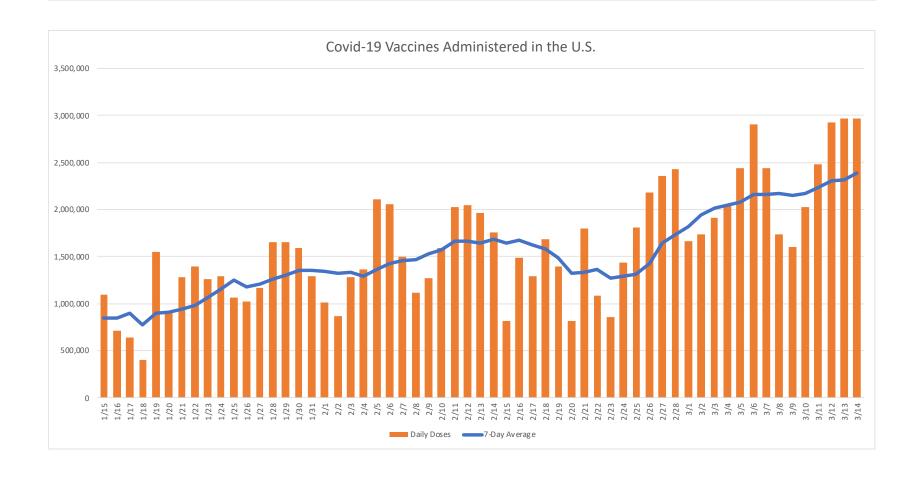
#### Pace of Worldwide Vaccinations

Gibraltar and Israel are pacing the world in vaccinating residents, with more more than one vaccine per person. The United States ranks seventh in the world. Brazil, Czechia, and Italy, three countries suffering high and rising infection rates, have been much slower in rolling out vaccines.



#### Pace of Vaccinations

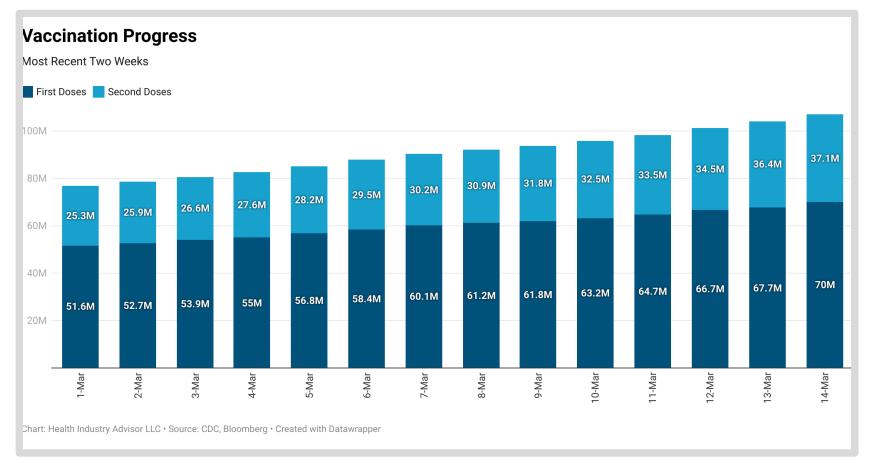
An average of 2.4 million people were vaccinated over the past week, an increase of more than 10% from one week earlier and 37% from two weeks earlier. Four of the five highest vaccination rates to-date occurred on the past four days.





### Vaccine Tracking

To date, the US has administered 107.1 million doses, with 37.1 million people jabbed twice. As of yesterday, 27.4% of U.S. adults have received at least one dose; 14.5% have received two.

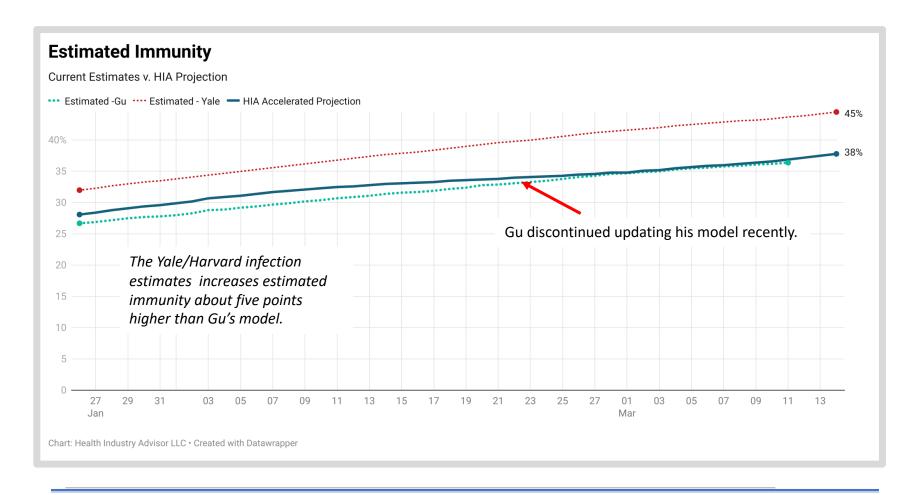


Vaccine data from: Centers for Disease Control and Prevention and Bloomberg Vaccine Tracker



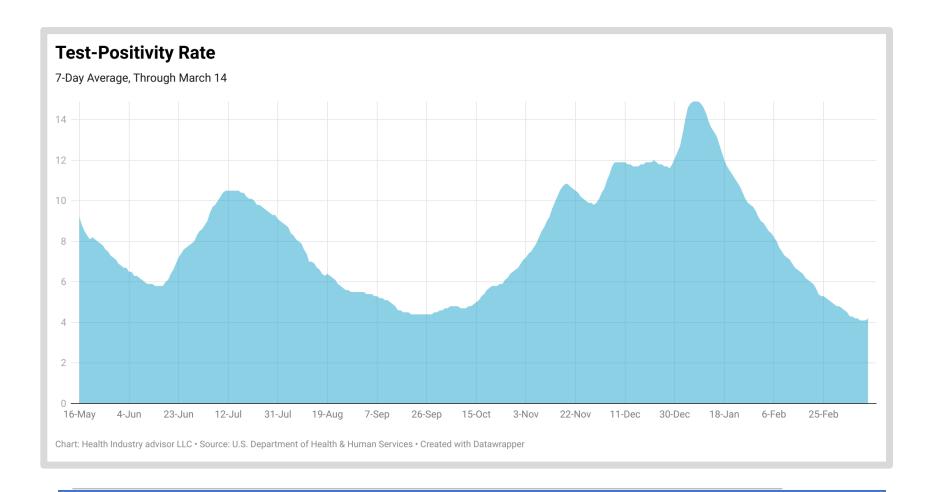
# Immunity: Projected v. Estimated

Estimated immunity is 38% to 45%, based on vaccination and estimated infection rates, vaccine efficacy and a presumed two-week lag from infection or vaccination to immunity.



## **Test-Positivity Rate**

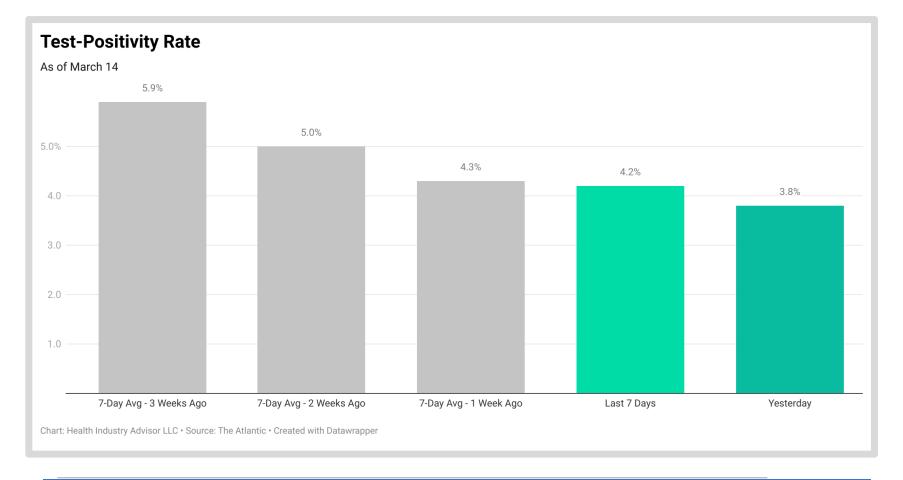
The 7-day test-positivity rate reached its lowest point since the pandemic began.





### **Test-Positivity Rate**

The test-positivity rate has dropped by more than one-third in the past three weeks.

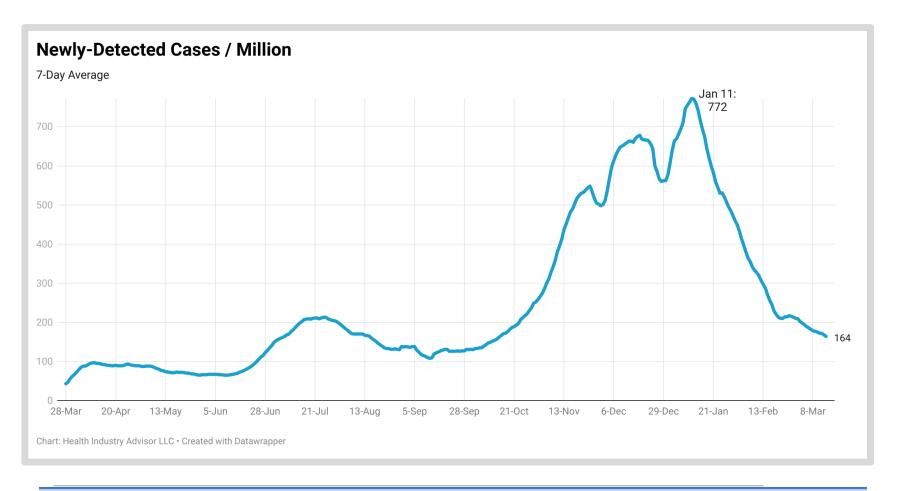






## Newly Detected Cases / Million - US

Newly detected cases (7-day average) continue dropping from a January 11<sup>th</sup> peak. Cases plunged an astonishing 79% in two months. This rate set a fivementh low.

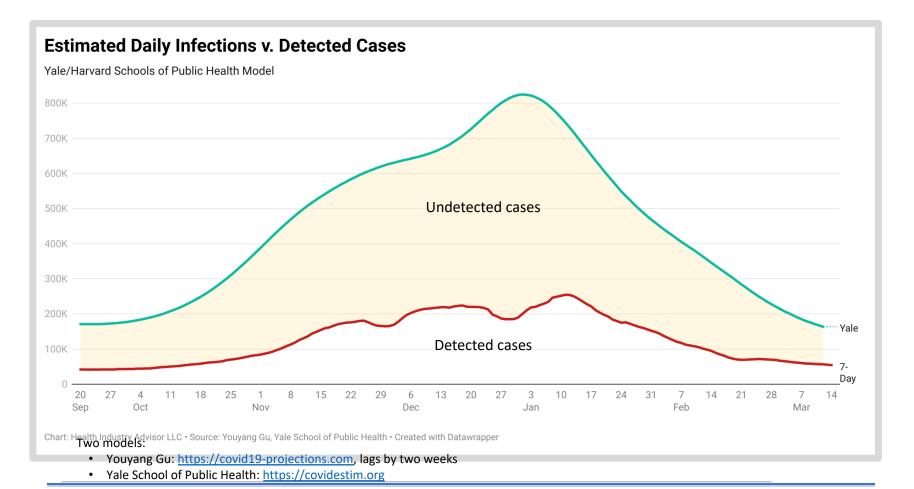






# Estimated Daily Infections & New Case Rates

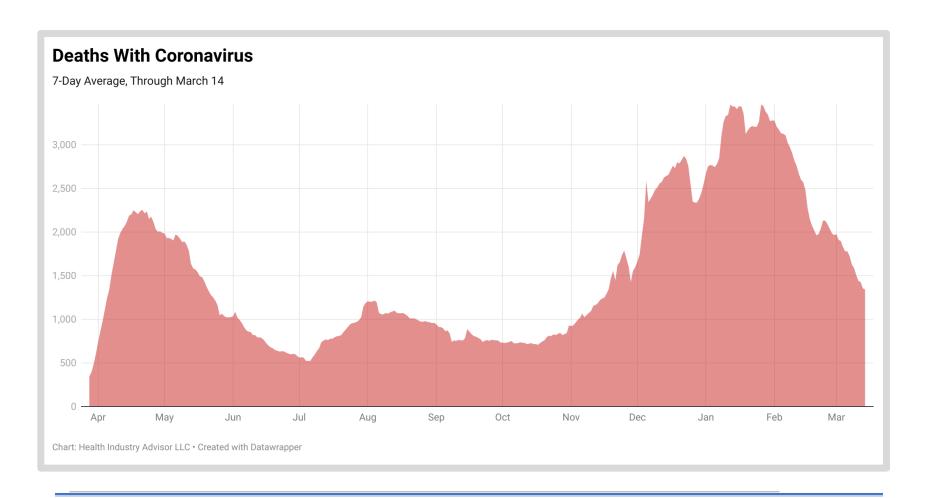
Estimated new infections and reported cases continue falling in the US. The Yale/Harvard model suggests that infections have plummeted 80% since the beginning of the year. The 7-day new case rate fell for the seventeenth straight day, and fiftyeighth time in the last sixty-three days.





#### **Deaths With Coronavirus**

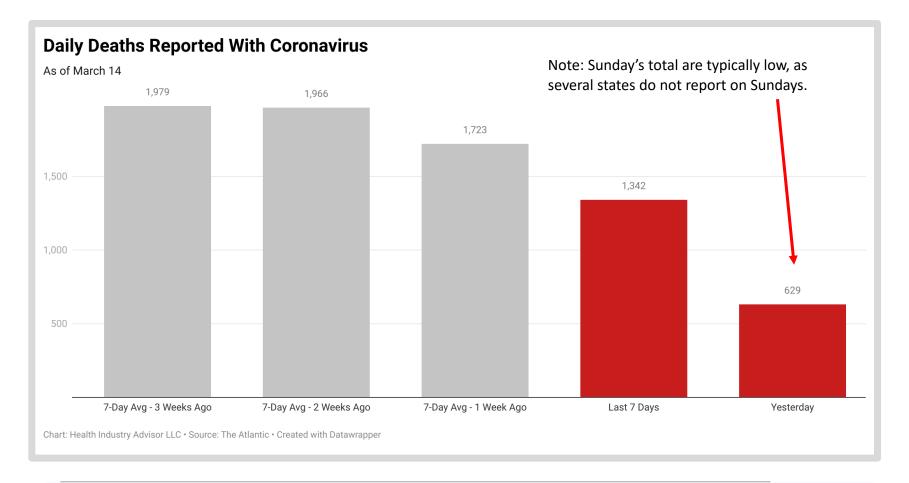
Deaths with coronavirus (7-day average) have declined by 59% since a peak in late January. This rate is lower than at any time in the last four months.





### **Deaths Reported With Coronavirus**

The 7-day average death rate fell 22% from last week and 32% in two weeks.







#### Sources

The following data sources are accessed on a daily or weekly basis

- U.S. Department of Health & Human Services: <a href="https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state">https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state</a>
- U.S. Department of Health & Human Services https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb
- Worldometers.info: <a href="https://www.worldometers.info/coronavirus/">https://www.worldometers.info/coronavirus/</a>
- Centers for Disease Control and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html
- Centers for Disease Control and Prevention, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19 5.html
- Centers for Disease Control and Prevention, COVID Data Tracker <a href="https://www.cdc.gov/covid-data-tracker/index.html#mobility">https://www.cdc.gov/covid-data-tracker/index.html#mobility</a>
- Centers for Disease Control and Prevention, Vaccines, <a href="https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html">https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html</a>
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads <a href="http://www.healthdata.org/covid/data-downloads">http://www.healthdata.org/covid/data-downloads</a>
- New York Times, Covid-19 data https://github.com/nytimes/covid-19-data
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University https://github.com/CSSEGISandData/COVID-19
- COVID-19 Projections Using Machine Learning, <a href="https://covid19-projections.com">https://covid19-projections.com</a>
- Covid-19 Forecast Hub, <a href="https://viz.covid19forecasthub.org">https://viz.covid19forecasthub.org</a>
- Yale School of Public Health & Harvard TH Chan School of Public Health, <a href="https://covidestim.org">https://covidestim.org</a>
- Bloomberg Vaccine Trackers, <a href="https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH">https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH</a>

