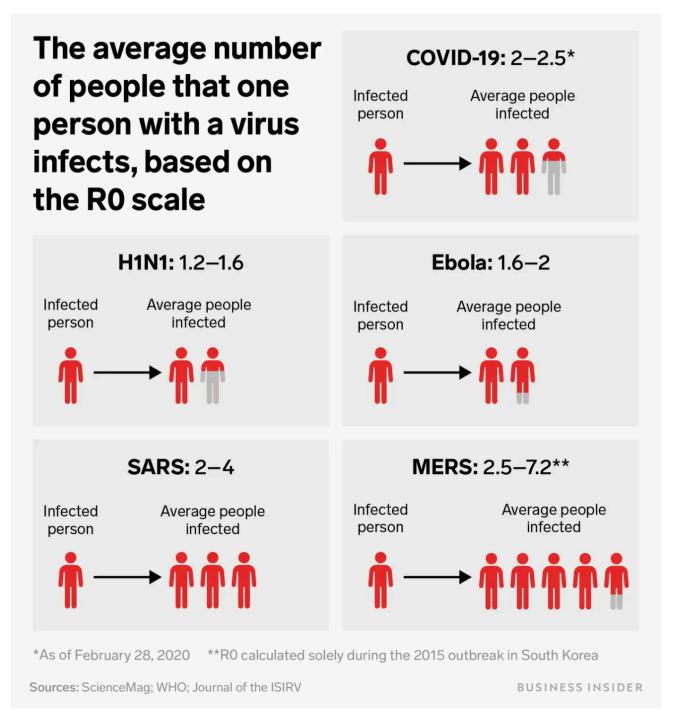
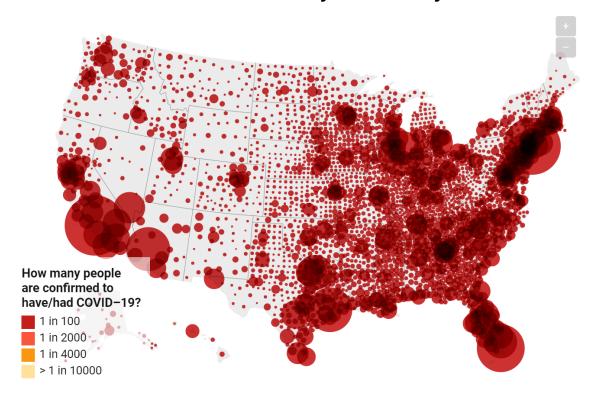
How contagious is the coronavirus?



Shayanne Gal/Business Insider

Where is the epicenter of the pandemic? Which country has the largest outbreak?

COVID-19 confirmed cases by US county

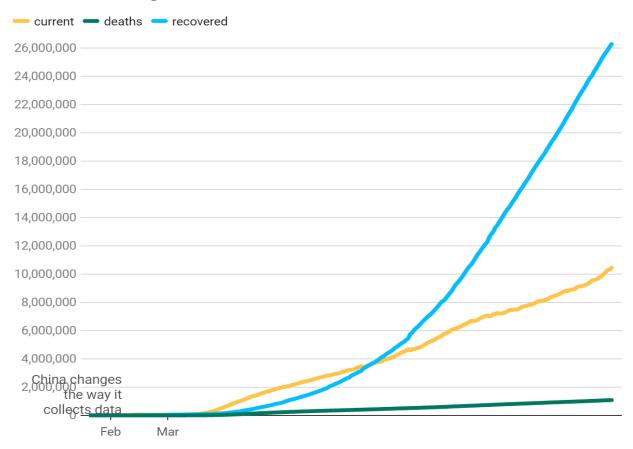


The map shows yesterday's number of cases. To zoom, use the zoom buttons or hold CTRL while scrolling. All cases for the five boroughs of New York City (New York, Kings, Queens, Bronx and Richmond counties) are assigned to a single area called New York City.

Source: Data from The New York Times, based on reports from state and local health agencies. • Get the data • Created with Datawrapper

How quickly did the coronavirus spread across the globe?

COVID-19 global cases, deaths, and recoveries

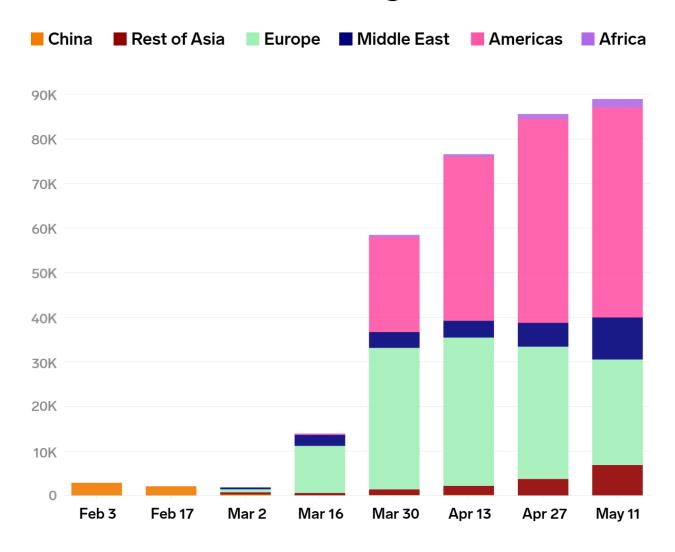


The values for March 12 are interpolated because Johns Hopkins university doesn't provide reliable data for that day. This chart gets updated once a day with data by Johns Hopkins.

Source: Johns Hopkins CSSE • Get the data • Created with Datawrapper

How many people have been infected or died in China? Are those numbers reliable?

Daily new COVID-19 cases around the globe

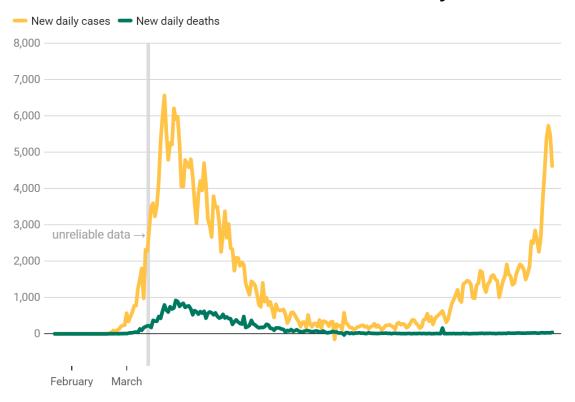


Data reflects the number of new confirmed cases for each specific date listed.

Source: WHO INSIDER

What happened in Italy?

COVID-19 new cases and deaths in Italy

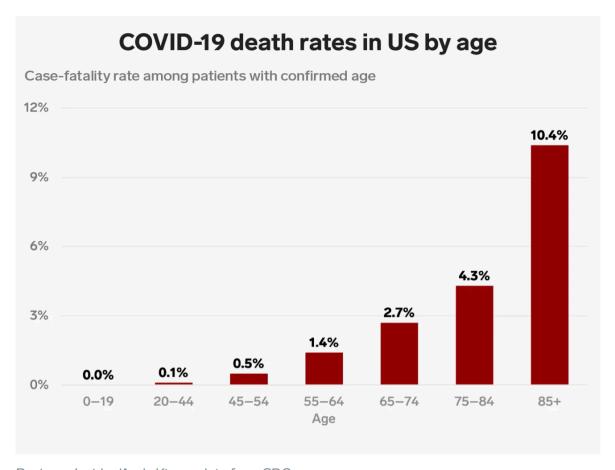


This chart gets updated once per day with data by Johns Hopkins. Johns Hopkins university doesn't provide reliable data for March 12 and March 13.

Source: Johns Hopkins CSSE • Get the data • Created with Datawrapper

COVID-19 infections overwhelmed Italy's healthcare system in March, forcing healthcare workers to make difficult choices about who to save.

Who is most at risk of death from the coronavirus?

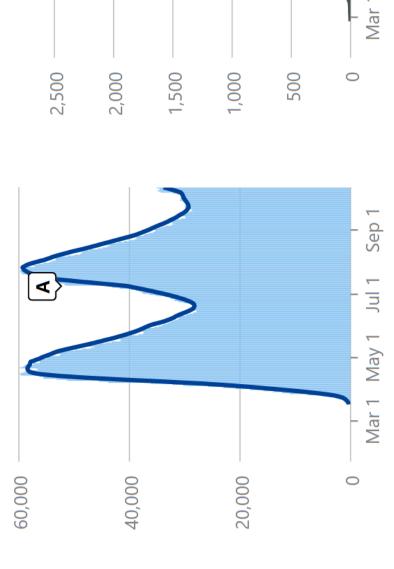


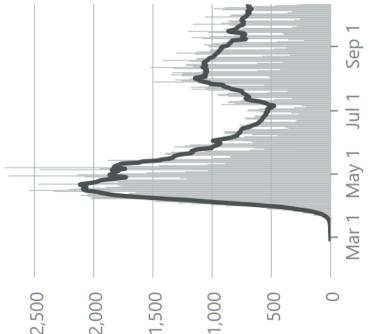
Business Insider/Andy Kiersz, data from CDC

Death rates for older patients are much higher.

Current hospitalizations (Notes)

New deaths (Calculated)







Last 90 days Full range

New tests (Calculated).
Total test results (mixed units)

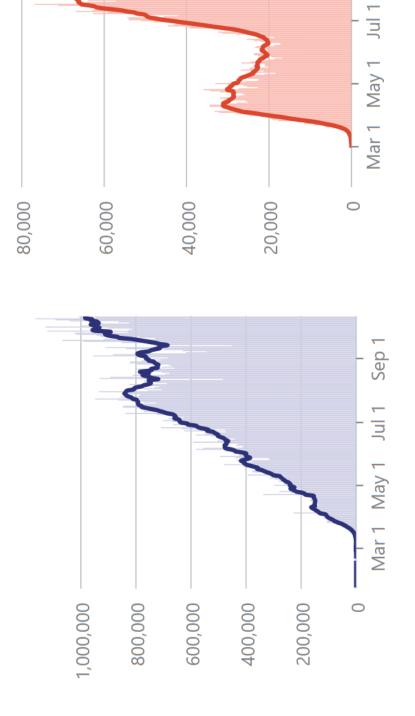
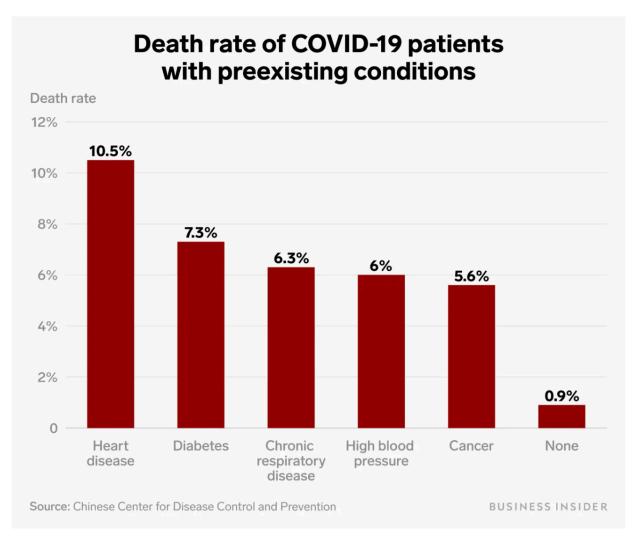


Chart information and data 1

Sep 1

New cases (Calculated).

How does the virus affect people with underlying health conditions?



Ruobing Su/Business Insider

Coronavirus patients with underlying health problems are more likely to die than otherwise healthy people.

How does COVID-19 compare to SARS?

2019 novel coronavirus compared to other major viruses

VIRUS	YEAR IDENTIFIED	CASES	DEATHS	FATALITY RATE	NUMBER OF COUNTRIES
Ebola	1976	33,577	13,562	40.4%	9
Nipah	1998	513	398	77.6%	2
SARS	2002	8,096	774	9.6%	29
MERS*	2012	2,494	858	34.4%	28
COVID-19**	2020	5,128,492	333,489	6.5%	188

Sources: Johns Hopkins, CDC, World Health Organization, New England Journal of Medicine,

Malaysian Journal of Pathology, CGTN

BUSINESS INSIDER

The total number of COVID-19 cases and deaths have far surpassed those of the SARS outbreak of 2003.

COVID-19 spread globally

	CONFIRMED CASES	DEATHS
Global	37,801,526	1,080,680
United States	7,804,047	215,082

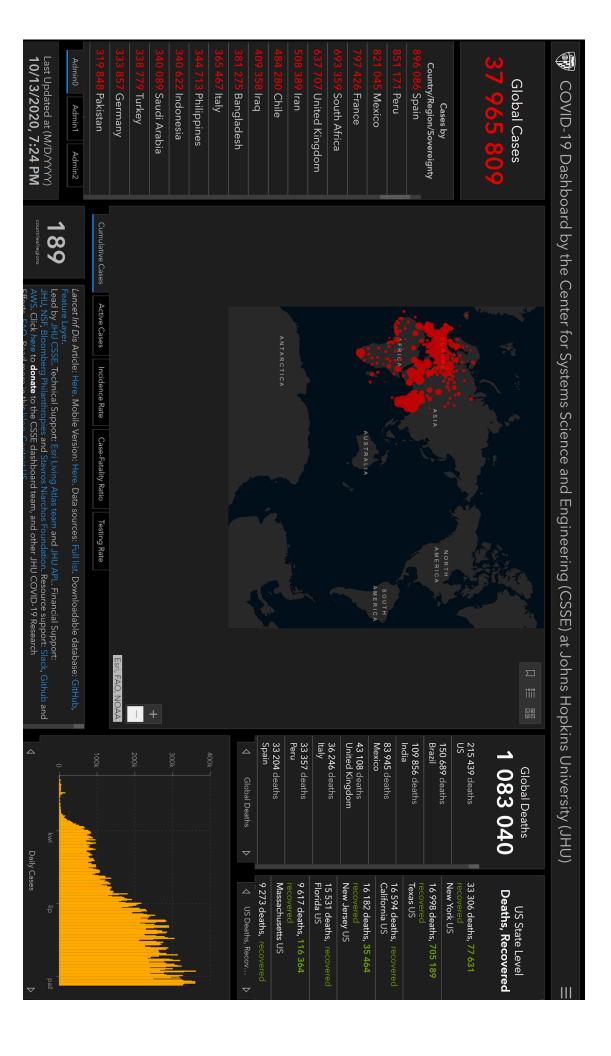
Last updated 14 hours ago using data from JHU CSSE

^{*}As of November 2019 **As of May 22, 2020

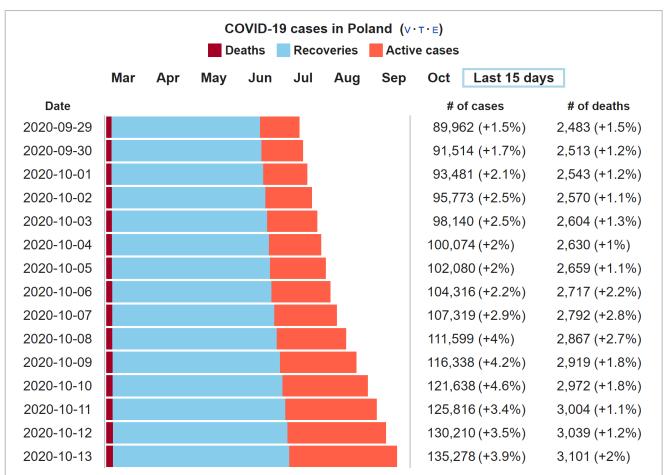
What are the symptoms of COVID-19?

SYMPTOM	COVID-19	COMMON COLD	FLU	ALLERGIES
Fever	Common	Rare	Common	Sometimes
Dry cough	Common	Mild	Common	Sometimes
Shortness of breath	Common	No	No	Common
Headaches	Sometimes	Rare	Common	Sometimes
Aches and pains	Sometimes	Common	Common	No
Sore throat	Sometimes	Common	Common	No
Fatigue	Sometimes	Sometimes	Common	Sometimes
Diarrhea	Rare	No	Sometimes*	No
Runny nose	Rare	Common	Sometimes	Common
Sneezing	No	Common	No	Common

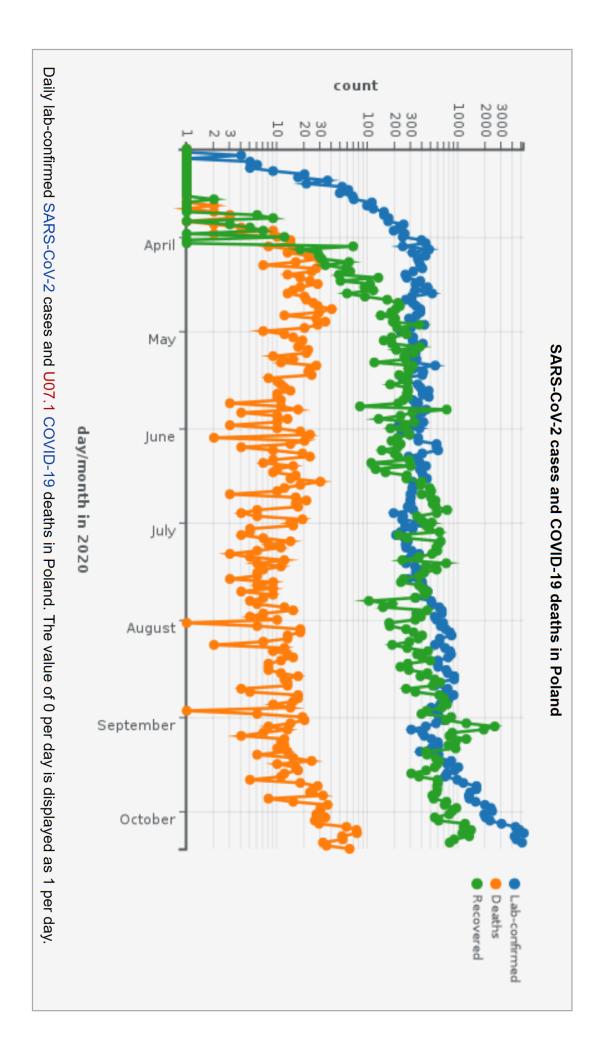
Shayanne Gal/Business Insider



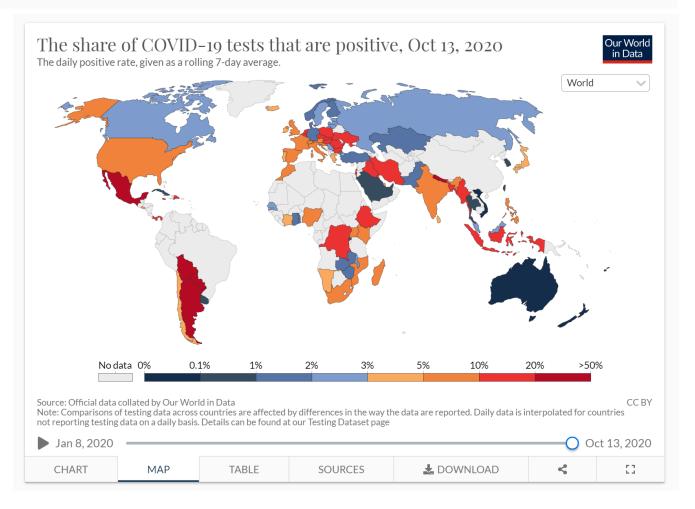


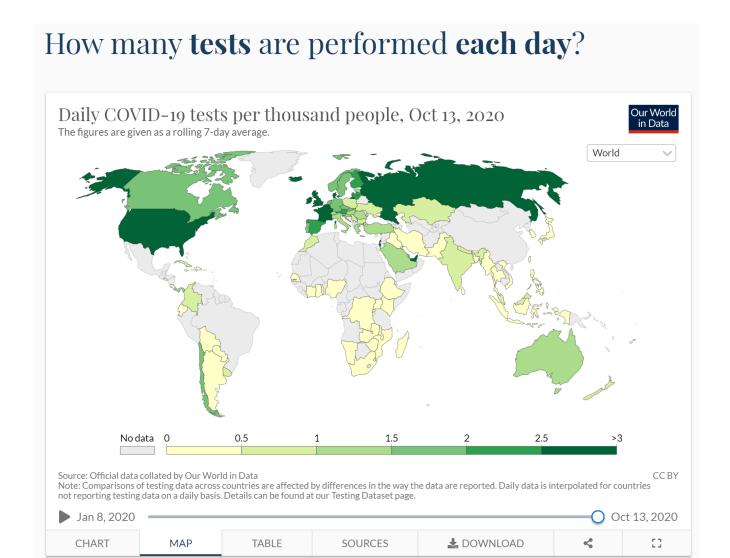


Sources: Polish Ministry of Health via official press conferences, official tweets ຝ, and website 战; see the tables for detailed references.



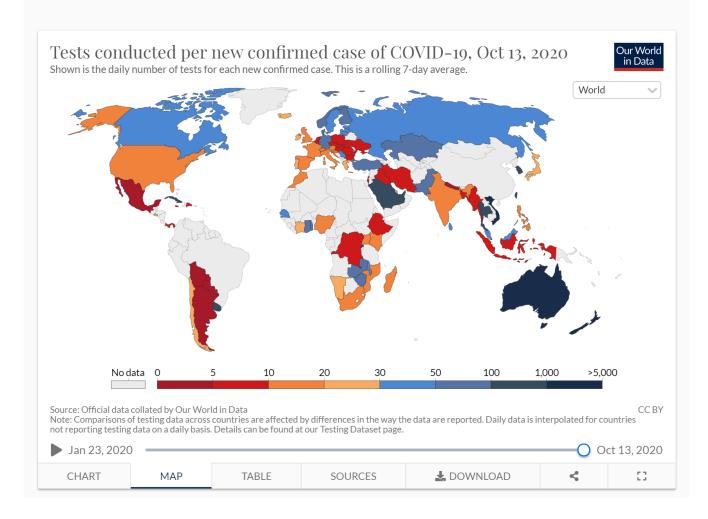
The positive rate: A crucial metric for understanding the pandemic





This chart shows the number of *daily* tests per thousand people. Because the number of tests is often volatile from day to day, we show the figures as a seven-day rolling average.

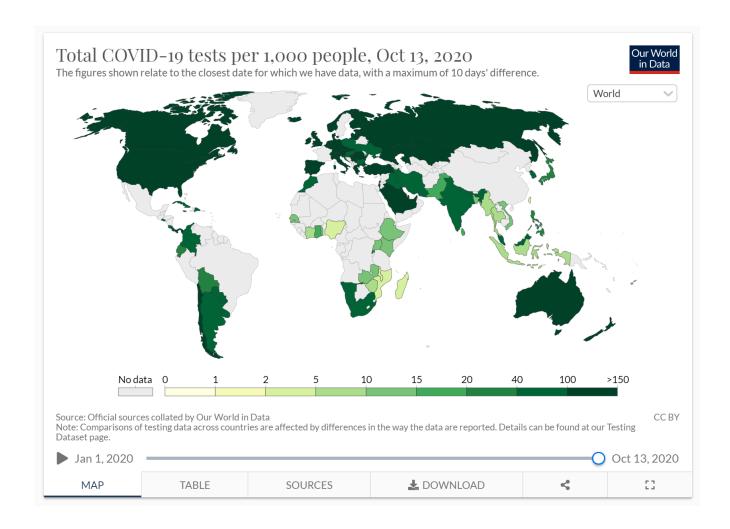
Tests per confirmed case



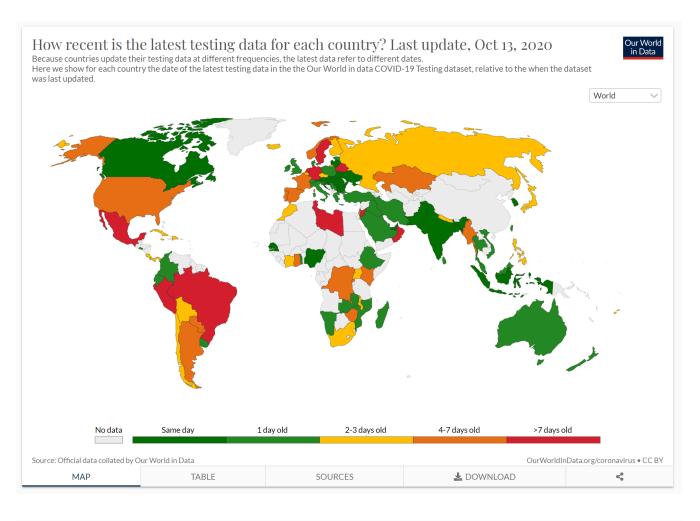
Another way of looking at the extent of testing relative to the scale of the outbreak is to ask: **How many tests does a country do to find one COVID-19 case?**

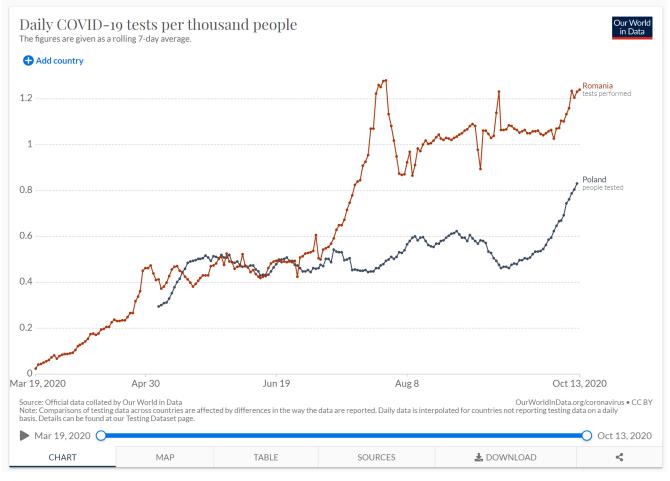
It is simply the inverse of our data on the positive rate.

Countries that do very few tests per confirmed case are unlikely to be testing widely enough to find all cases. The WHO has suggested around 10 - 30 tests per confirmed case as a general benchmark of adequate testing.



This map shows you how the total number of tests per thousand people compares across all countries in our dataset.





THE MATH BEHIND SOCIAL DISTANCING

Social distancing measures can play a critical role in controlling the spread of pandemics, but only if carried out properly.

WHAT IS IT?

WHAT CAN YOU DO?





Source: Government of Canada

Scientists measure the intensity of an infectious disease by its reproduction number (R_a).

Ra: the average number of people a sick person will infect





For COVID-19, this has been estimated at 2.5

Source: ISGlobal

To illustrate the potential of social distancing, the following assumptions are made:



There is a direct linear correlation between social exposure and Ro



The median incubation period of COVID-19 is approximately five days-after this period, a person will experience symptoms and self quarantine

With these in mind, here's how distancing measures can control the spread of the disease:

REDUCING SOCIAL EXPOSURE BY 75%

INFECTS

DAY 5



0.625 People INFECTED

DAY 30



2.5 People

As scientists and healthcare professionals rush to develop a vaccine for COVID-19, social distancing can be thought of as the first line of defense.

However, for these measures to be as effective as possible, it's important to remember that we all have a part to play.



DAY 1

1 Person





