

# DataVid 19

## A D3.js Insight of the COVID-19 Pandemic

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### Introduction & Context

To this day, it has been almost a year and a half that we changed our way of living due to the COVID-19 pandemic. This virus did not only have an impact on our lives, but it also affected how we see data, perceive information and showed us how easily incorrect data and doubtful visualization can lead to disinformation.

That is why we have decided to build a data visualization tool that can be useful to anyone: understandable with ease and reachable for anyone: from scientific researchers (data table + timeseries - looking for precise data) to children (bar chart race + map - enjoyment and recreational learning).

**Our goal?** To retrieve data related to the pandemic in the most faithful way and provide it to anyone by making it easily understandable.

### Methods

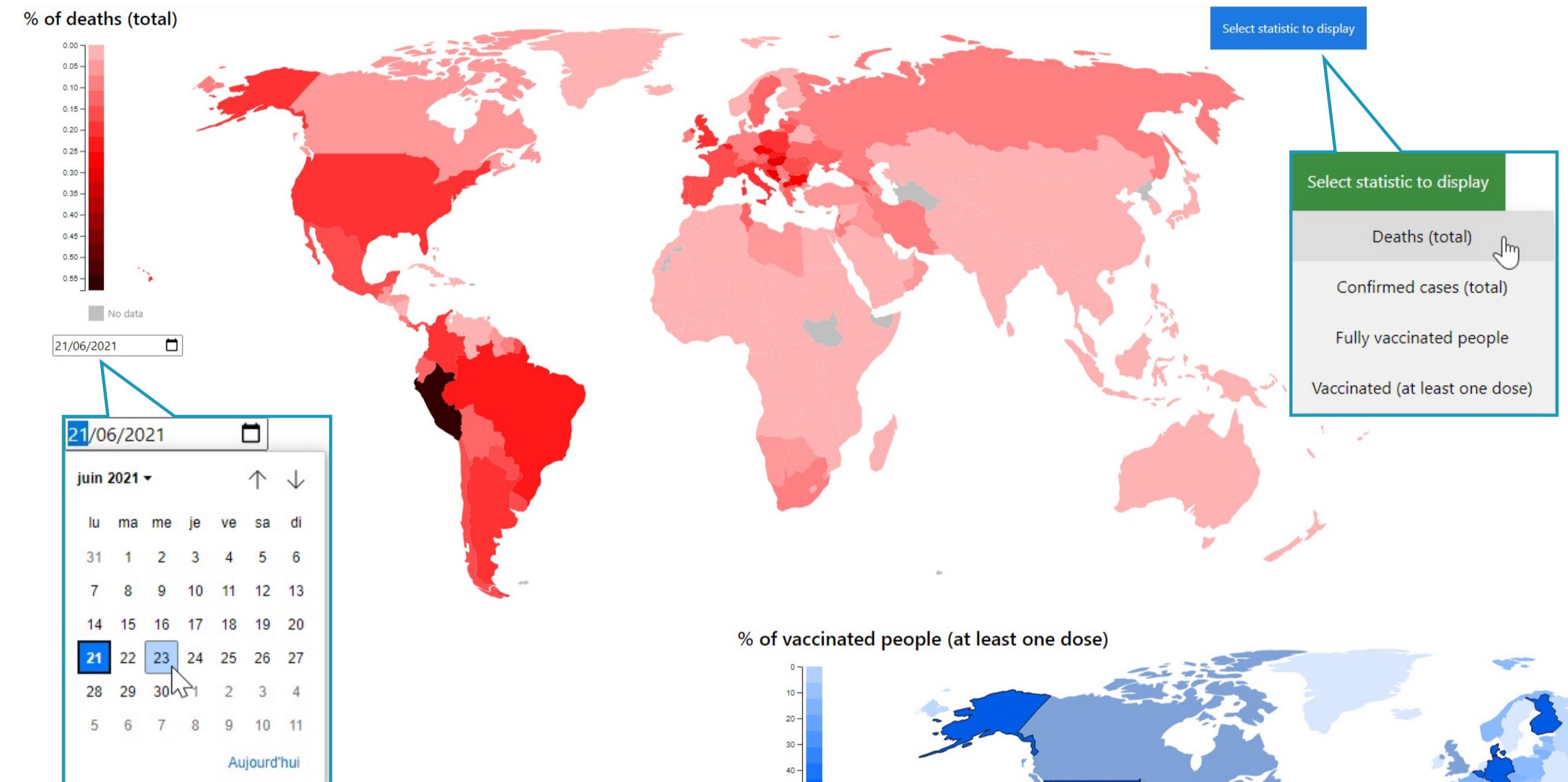
Four visualizations have been retained for our tool:

- We have the desire to show how the pandemic developed itself from country to country by using a map (**D3.js**) and defining a specific date.
- Timeseries are available to display countries on different metrics (**D3.js**).
- A very captivating bar chart race has been coded in **D3.js**. With a highly enjoyment level, users only needs to gaze at the race.
- A table to dig inside the data and retrieve a specific information that comes out from other graphics or not. It has been created using **jQuery**.

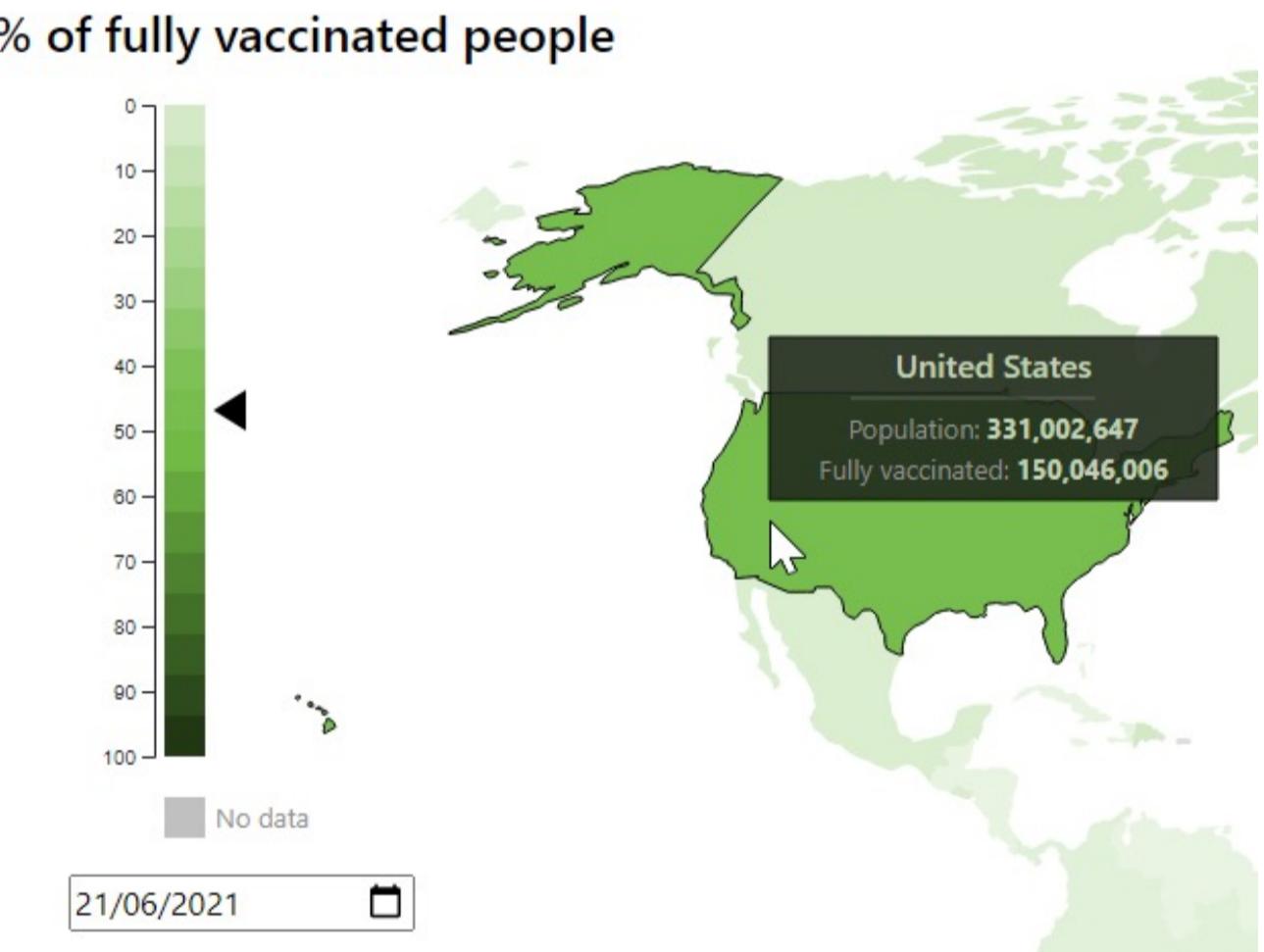
For all visuals users can select the metric (confirmed cases, deaths, fully vaccinated, at least one vaccine dose) and interact with it.

### Results – Visuals & Graphics

#### World map

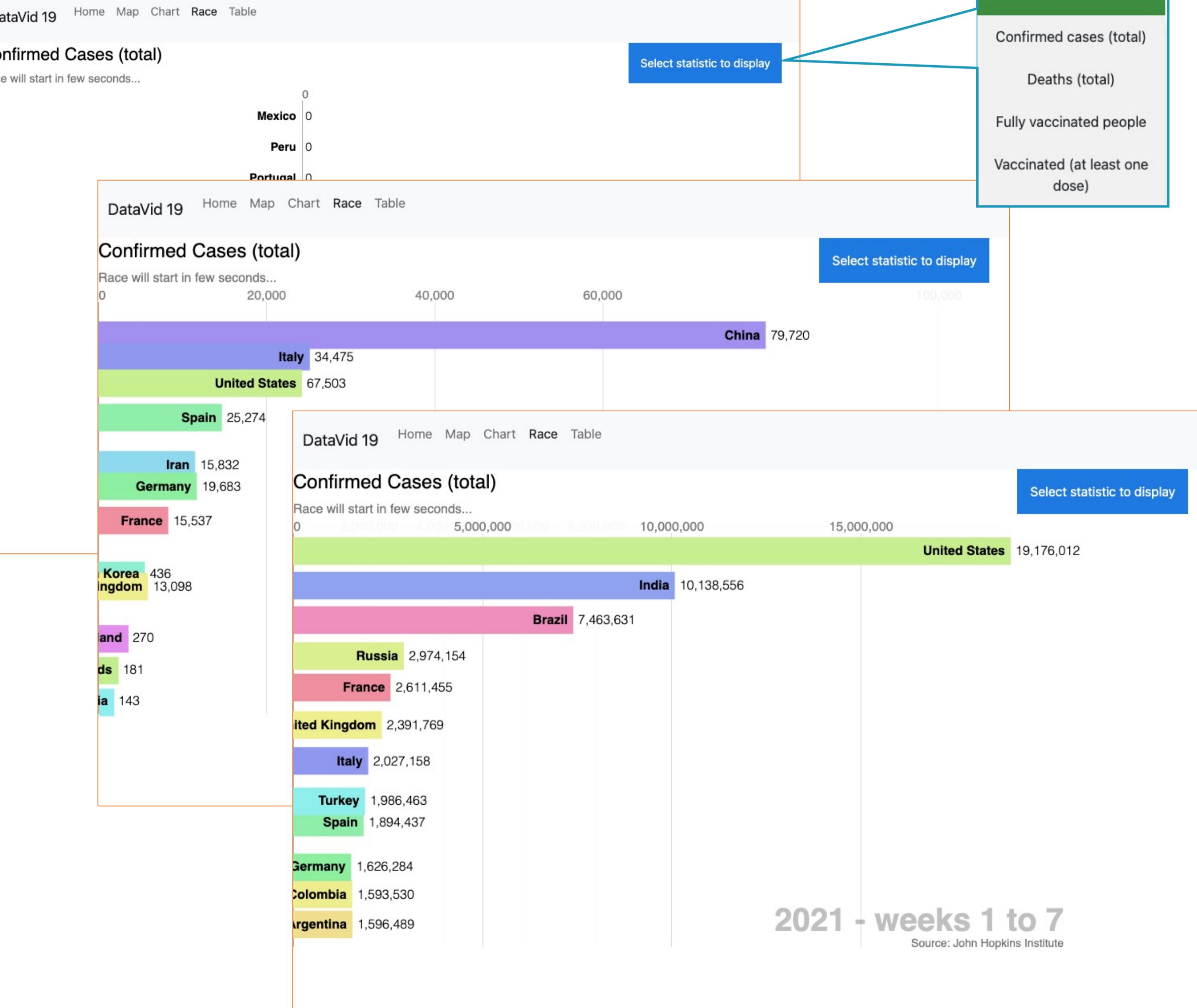


% of fully vaccinated people



Hover over a country to see the absolute numbers and its position on the legend.

#### Bar chart race



Users can select the metric to display (confirmed cases, deaths, fully vaccinated, at least one vaccine dose) and watch the race from early 2020 to the current day.

#### Table

Continent	Location	Date	New Cases	New Deaths	Total Cases	Total Deaths	Covid Cases Per Million	Covid Deaths Per Million	People Vaccinated	People Fully Vaccinated	People Vaccinated Per Hundred	People Fully Vaccinated Per Hundred
North America	United States	2021-06-01	22943.0	644.0	33290450.0	595059.0	100574.0	1797.0	168489729.0	135867425.0	50.38	40.63
North America	United States	2021-05-01	45383.0	714.0	32396144.0	577031.0	97872.0	1743.0	146239208.0	103422555.0	43.73	30.92
North America	United States	2021-04-01	79115.0	1077.0	30544145.0	553611.0	92277.0	1672.0	99565311.0	56089614.0	29.77	16.77
Asia	India	2021-06-01	132788.0	3207.0	28307832.0	335102.0	20512.0	242.0	169585180.0	43550558.0	12.29	3.16
Asia	India	2021-05-01	392488.0	3689.0	19557457.0	215542.0	14172.0	156.0	126328970.0	27297355.0	9.15	1.98
Europe	United Kingdom	2021-06-01	3102.0	0.0	4506333.0	128045.0	66380.0	1886.0	39585665.0	26073284.0	58.31	38.41
North America	United States	2021-03-01	58099.0	1521.0	28709454.0	516556.0	86734.0	1560.0	50732997.0	25466405.0	15.17	7.61
South America	Brazil	2021-06-01	78926.0	2408.0	16624480.0	465199.0	78210.0	2188.0	45940210.0	22304006.0	21.61	10.49
Europe	Germany	2021-06-01	2987.0	180.0	3692908.0	88781.0	44076.0	1059.0	36458078.0	15714255.0	43.51	18.76

The table above gathers all the data we used for this project.

For every first day of all months since January 2020, and for every country, we have the number of cases, of deaths, of vaccinations (daily and total). In total, 10 features have been selected.

#### Timeseries



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