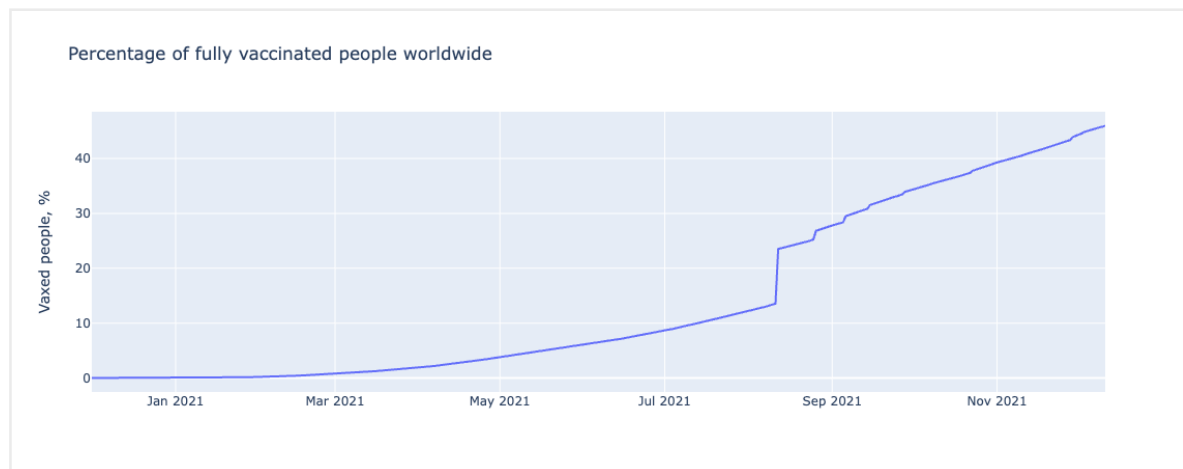


Analysis

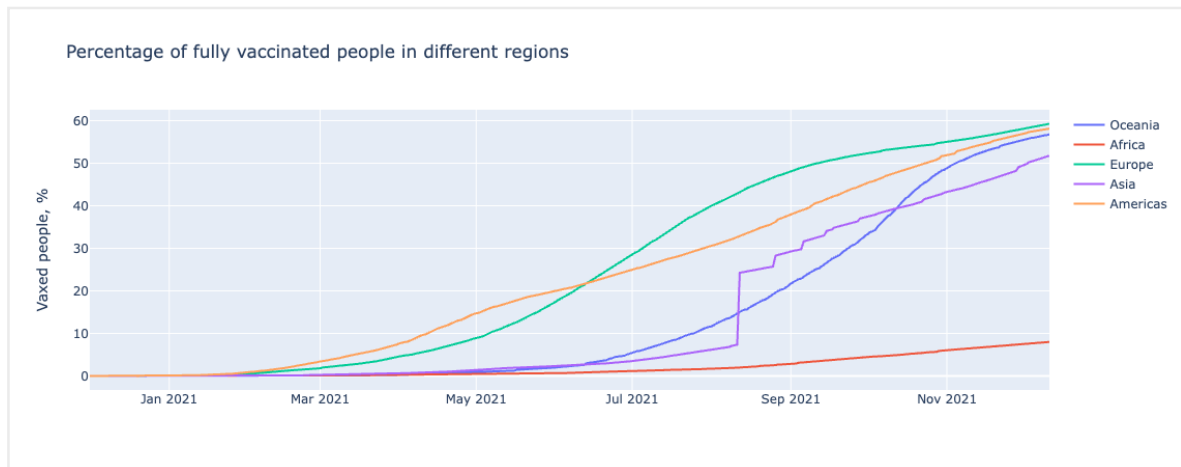
The jump on the graphs 1., 2., 3. probably does not correspond to anything, actually. Most likely it's just China, or other Asian developing countries started reporting their statistics on that particular date.

We can see that aside from that sudden jump, the percentage of fully vaccinated people worldwide (Graph 1) is increasing rather steadily: it is a function that closely resembles a linear function.

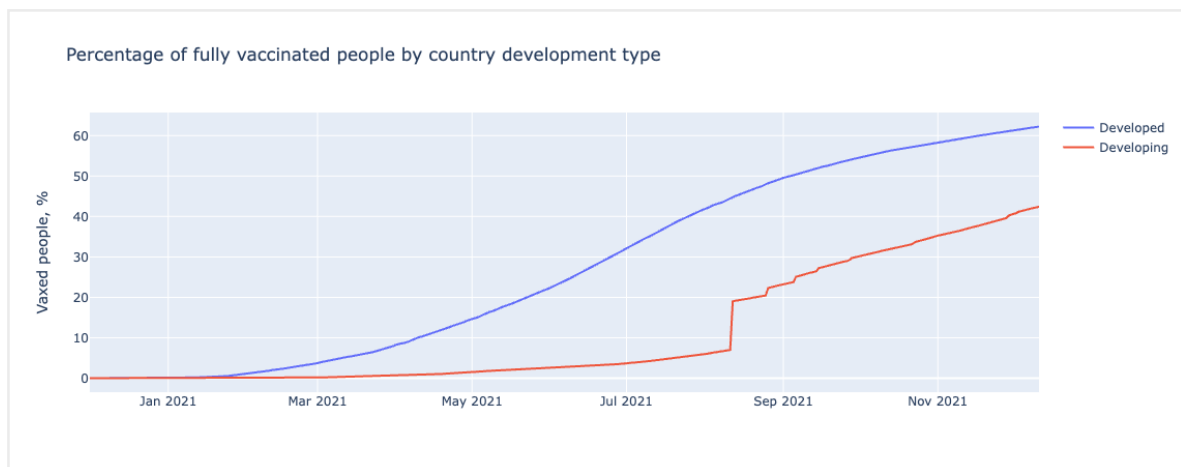


When we look at the same value but separated by region (Graph 2), we note that this figure is really similar to that of Asia. (Since around 60% of people live in Asia, and Asia seem to vaccinate people not any worse than Europe or Americas this makes perfect sense.)

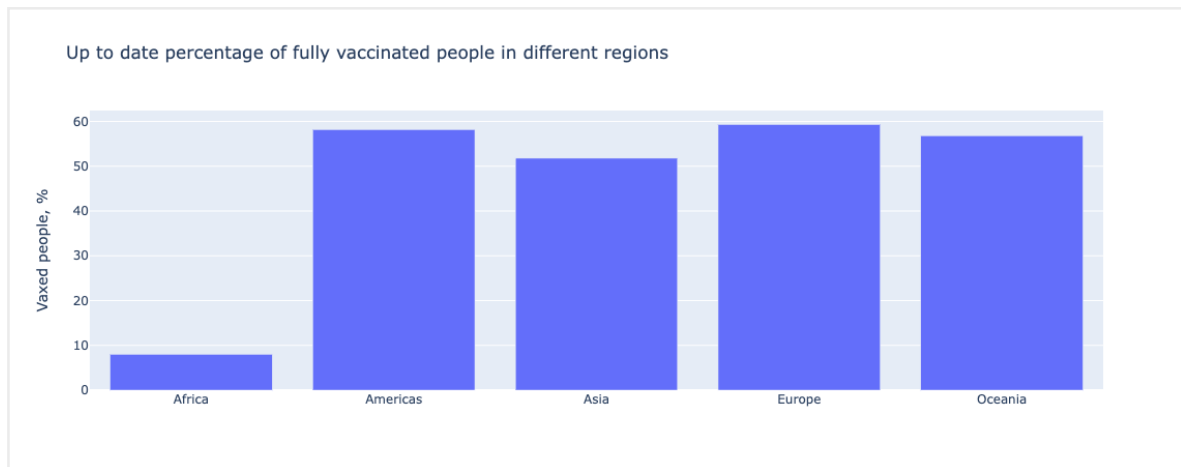
We can also see a very interesting dynamic how different regions responded to the pandemic on this graph. Americas and Europe have almost the same success in vaccination throughout the whole year. Asia and Oceania were not as active at first, but their figures have reached almost the same levels right now. Africa, however, does not vaccinate people all that well, having not even reached 10% by the middle of this year's December.



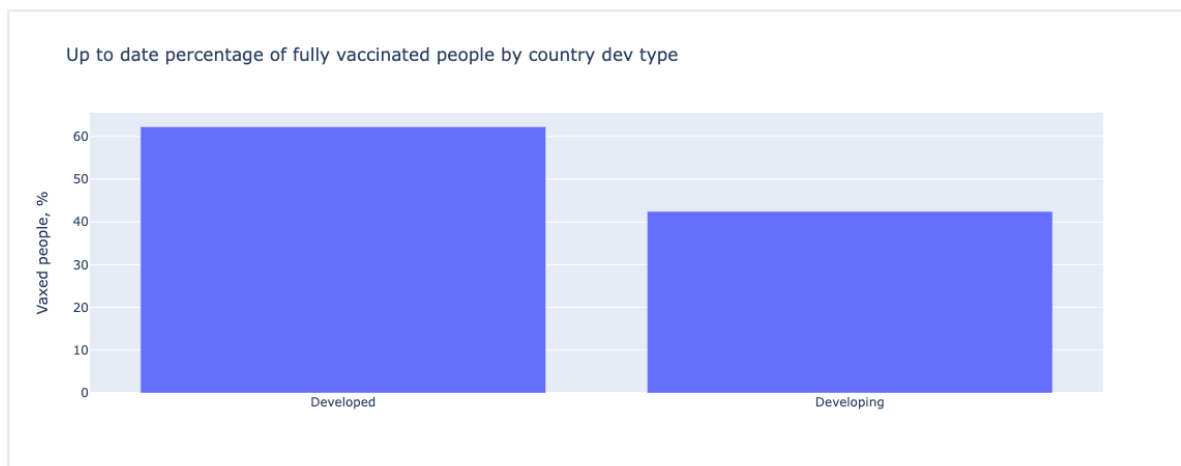
When we look at the percentage of fully vaccinated people by country development type (Graph 3), we notice almost the same figure for developing countries as for the worldwide vaccination progress (Graph 2) and Asia (Graph 1). It is just due to the fact that the majority of people live in developing countries right now. Still, it is interesting to compare the percentage to the developed countries. We see that after some initial delay (that, again, might have had something to do with unreported vaccinations), developing countries are responding to the pandemics almost just as good as developed ones.



To get a sense of where the figures has leveled off, you may take a look at the graph 4 and graph 5. On the graph 4 we see the comparison of the percentage of fully vaccinated people by region, and see that indeed all the regions have vaccinated 50-60% of their population, safe Africa which has vaccinated only just about 10% of their people.

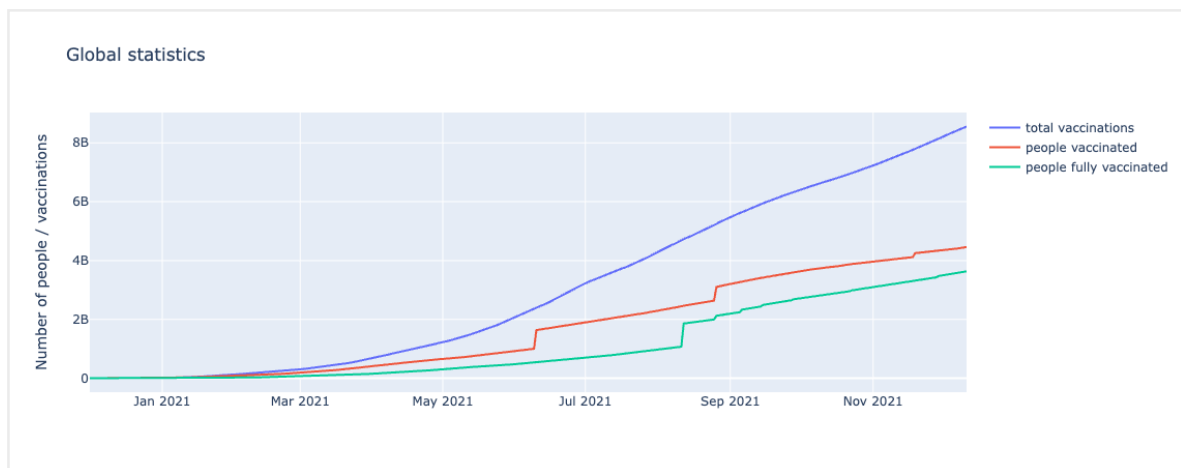


On the graph 6 we see that developing countries does not vaccinate people all that bad, having a little more than 40% of their people vaccinated by mid December. Developed countries has vaccinated just above 60%.

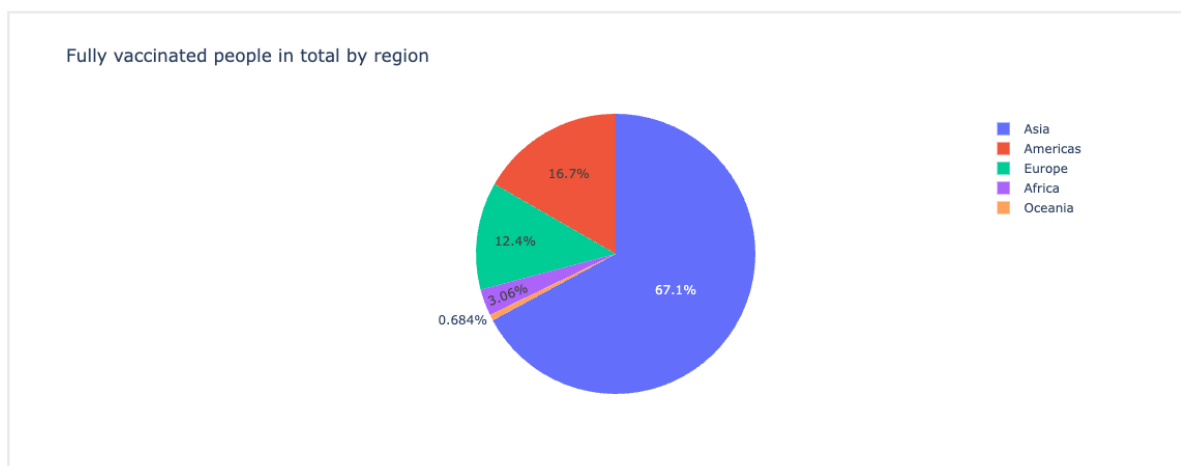


Let's now grasp some global statistics, namely how many vaccinations or vaccinated people there are in total, with no regard to the population of the particular region.

On the 6th graph we see that there are about twice as much vaccinations were made compared to the amount of people who got the shot, which tells us, that the average vaccine requires two shots to vaccinate a person. We also see that right now it does not exceed this two-times fold, meaning that there are not so many people have had a revaccination by now. We can also see that kind of "one-month delay" between the amount of people who got the shot and fully vaccinated people, which tells us, of course, that there is 1 month delay between shots for each person on average [which is really interesting: the Russian vaccine, for instance, requires only 21-day delay].



Let's finally take a look at the total number of fully vaccinated people living in each region. Almost 70% are in Asia, similar number of people live in Europe and Americas, and the people who got a shot in Africa make up only 3% of all the people who got a shot. Since we know that people living in Africa make up more than 16% of the world's population, it is evident that Africa does not have the sufficient amount of vaccine at all.



As for the developed vs developing countries comparison, we can note that actually there are more vaccinated people living in developing countries than in developed, so it does not actually depend on whether the country is developed or developing when it comes to vaccination, as some might have initially thought.

Fully vaccinated people in total by country dev type.



Some conclusions:

- Africa is in big trouble
- Asia does not report its statistics regularly or is vaccinating people in really strange manner, but right now its people vaccinated just as good as in other regions
- Developing countries, actually vaccinate people almost just as good as developed ones