COVID-19

An analysis of a human tragedy

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The Story

- Today we face a great challenge in our lives the likes of which we've never seen.
- A pandemic has hit the entire world.
- In order to better understand how different areas are affected, we display data for different countries of the world.
- To keep it relative in each country, the counts are listed as occurrences per million.
- We also wanted to see the relationship between GDP per capita (spending power) and hospital beds (access to healthcare).

The TechStack

- Data Source
  - Our World in Data - https://ourworldindata.org/
- MongoDB
- Python/PyMongo/Flask
- Bootstrap
- jQuery
- Plotly
- Single/multiple, dynamic traces

Deaths Per Million

Selected Location(s): Cuba,Cyprus,Dominica,Germany,Greece,Guinea,Kuwait,Latvia,Lithuania,Serbia,Switzerland,United States

Deaths Per Million   Cases Per Million   GDP vs. Hospital Beds

SELECT LOCATION(S):
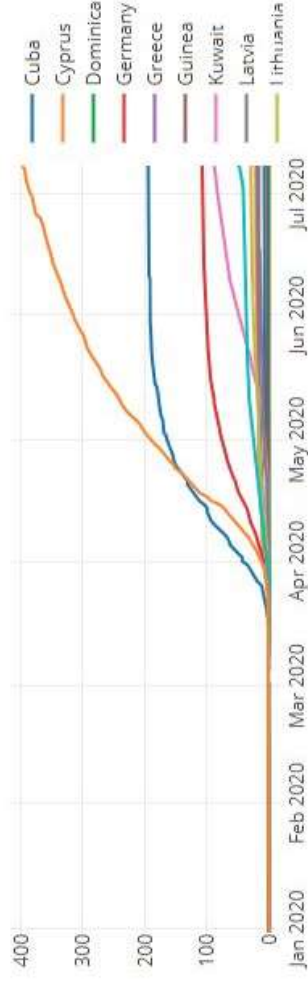
Cote d'Ivoire
Croatia
Cuba
Curacao
Cyprus
Czech Republic
Democratic Republic of Congo
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador
Egypt
El Salvador

Ctrl + click to select multiple

Legend:
Cuba
Cyprus
Dominica
Germany
Greece
Guinea
Kuwait
Latvia
Lithuania

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Cases Per Million

Selected Location(s): Cuba,Cyprus,Dominica,Germany,Greece,Guinea,Kuwait,Latvia,Lithuania,Serbia,Switzerland,United States
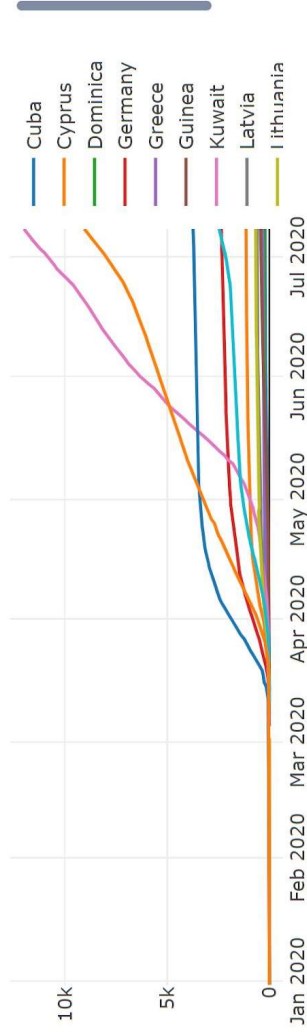
SELECT LOCATION(S):

Curacao
Cyprus
Czech Republic
Democratic Republic of Congo
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador
Egypt
El Salvador
Equatorial Guinea
Eritrea

Ctrl + click to select multiple

Deaths Per Million | Cases Per Million | GDP vs. Hospital Beds

Legend:
Cuba
Cyprus
Dominica
Germany
Greece
Guinea
Kuwait
Latvia
Lithuania

10k
5k
0

Jan 2020 Feb 2020 Mar 2020 Apr 2020 May 2020 Jun 2020 Jul 2020

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GDP vs. Hospital Beds

Selected Location(s): Cuba,Cyprus,Dominica,Germany,Greece,Guinea,Kuwait,Latvia,Lithuania,Serbia,Switzerland,United States
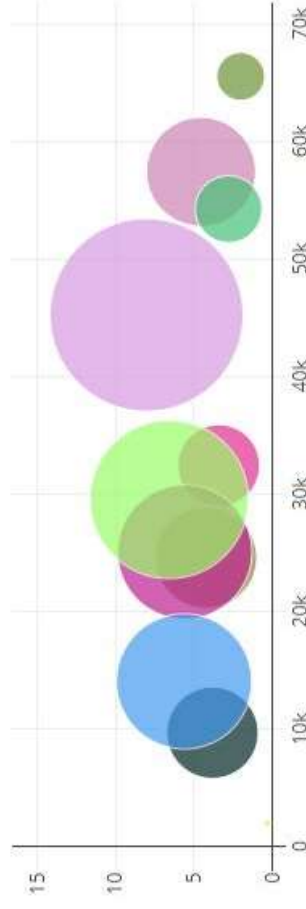
SELECT LOCATION(S):

Cote d'Ivoire
Croatia
Cuba
Curacao
Cyprus
Czech Republic
Democratic Republic of Congo
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador
Egypt
El Salvador

Ctrl + click to select multiple

Deaths Per Million   Cases Per Million   GDP vs. Hospital Beds

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Live Demo

Conclusion

- Prosperous countries seem to be affected more than others.
- Higher spending power (GDP per capita) is not an indicator of better access to healthcare.
- More hospital beds does not guarantee lower death rate.

Questions?