Principal

July 19, 2023

link para GitHub

1 Setup

link url_confirmados

link url_mortes

link url_recuperados

1.1 ajustes e visualização dos dados

```
               Province/State       Lat        Long   1/22/20   1/23/20   1/24/20  \
Country/Region
Afghanistan              NaN   33.93911   67.709953         0         0         0
Albania                  NaN   41.15330   20.168300         0         0         0
Algeria                  NaN   28.03390    1.659600         0         0         0

                1/25/20   1/26/20   1/27/20   1/28/20  …   2/28/23   3/1/23  \
Country/Region                                         …
Afghanistan           0         0         0         0  …    209322   209340
Albania               0         0         0         0  …    334391   334408
Algeria               0         0         0         0  …    271441   271448

                3/2/23   3/3/23   3/4/23   3/5/23   3/6/23   3/7/23   3/8/23   3/9/23
Country/Region
Afghanistan     209358   209362   209369   209390   209406   209436   209451   209451
Albania         334408   334427   334427   334427   334427   334427   334443   334457
Algeria         271463   271469   271469   271477   271477   271490   271494   271496

[3 rows x 1146 columns]
               Province/State       Lat        Long   1/22/20   1/23/20   1/24/20  \
Country/Region
Afghanistan              NaN   33.93911   67.709953         0         0         0
Albania                  NaN   41.15330   20.168300         0         0         0
Algeria                  NaN   28.03390    1.659600         0         0         0

                1/25/20   1/26/20   1/27/20   1/28/20  …   2/28/23   3/1/23  \
Country/Region                                         …
```

```
Afghanistan             0         0         0         0   …      7896      7896
Albania                 0         0         0         0   …      3598      3598
Algeria                 0         0         0         0   …      6881      6881


                   3/2/23    3/3/23    3/4/23    3/5/23    3/6/23    3/7/23    3/8/23    3/9/23
Country/Region
Afghanistan          7896      7896      7896      7896      7896      7896      7896      7896
Albania              3598      3598      3598      3598      3598      3598      3598      3598
Algeria              6881      6881      6881      6881      6881      6881      6881      6881

[3 rows x 1146 columns]
              Province/State        Lat         Long    1/22/20    1/23/20    1/24/20   \
Country/Region
Afghanistan              NaN   33.93911   67.709953          0          0          0
Albania                  NaN   41.15330   20.168300          0          0          0
Algeria                  NaN   28.03390    1.659600          0          0          0


                1/25/20    1/26/20    1/27/20    1/28/20   …   2/28/23    3/1/23   \
Country/Region                                              …
Afghanistan           0          0          0          0   …         0         0
Albania               0          0          0          0   …         0         0
Algeria               0          0          0          0   …         0         0


                   3/2/23    3/3/23    3/4/23    3/5/23    3/6/23    3/7/23    3/8/23    3/9/23
Country/Region
Afghanistan             0         0         0         0         0         0         0         0
Albania                 0         0         0         0         0         0         0         0
Algeria                 0         0         0         0         0         0         0         0

[3 rows x 1146 columns]
```
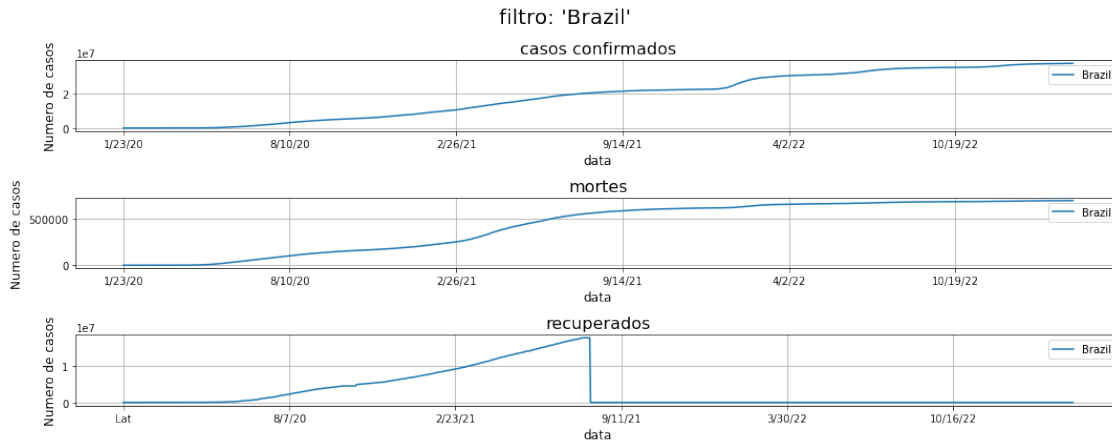
2 Utilizando Filtro

neste caso: Brasil

2.1 visualização

Visualização em 3 eixos diferentes pois a grandeza difere muito para cada variável
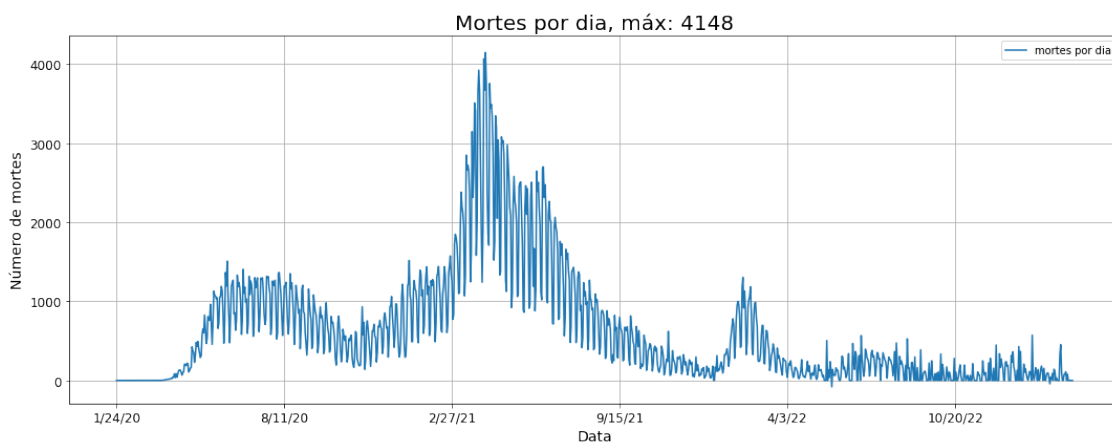
filtro: 'Brazil'

Por algum motivo, próximo a novembro/2021 pararam de reportar os numeros de recuperados

2.1.1 Numero de casos por dia (no filtro)
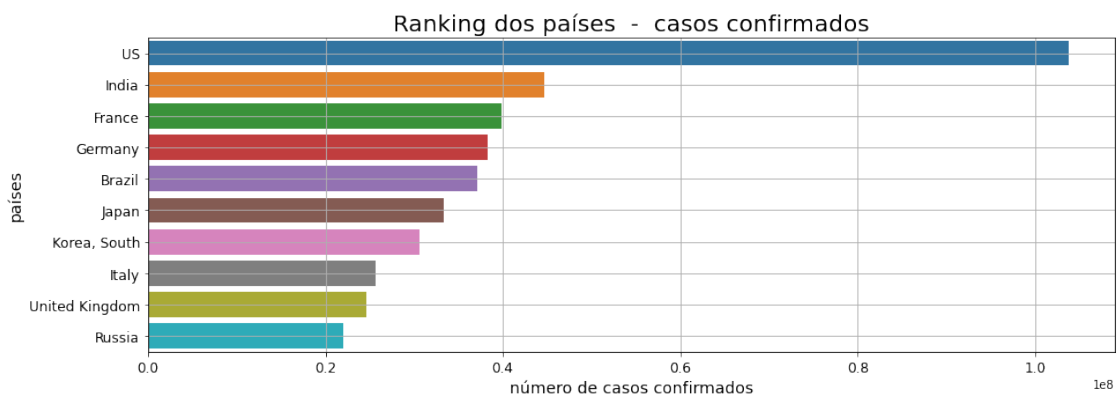
descrição das mortes por dia:

	mortes por dia
count	1141.0
mean	613.0
std	721.0
min	-81.0
25%	99.0
50%	340.0
75%	912.0
max	4148.0

Por algum motivo desconhecido, tem valores negativos para numero de mortes

Mortes por dia, máx: 4148

3

```
Resumo COVID          Casos Confirmados  Mortes
Países
Afghanistan                      209451    7896
Albania                          334457    3598
Algeria                          271496    6881
Andorra                           47890     165
Angola                           105288    1933
…                                   …       …
West Bank and Gaza               703228    5708
Winter Olympics 2022                535       0
Yemen                             11945    2159
Zambia                           343135    4057
Zimbabwe                         264276    5671

[201 rows x 2 columns]
```
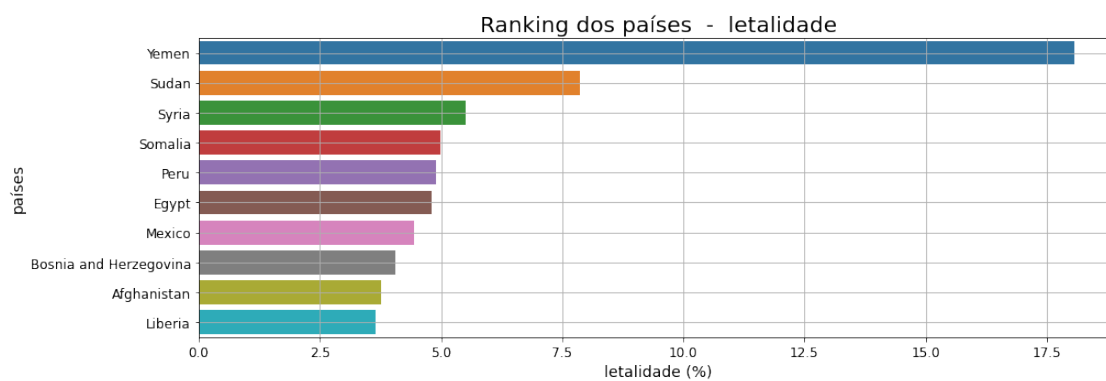

Ranking dos países - casos confirmados

2.2   estimativa letalidade

```
Resumo COVID          Casos Confirmados  Mortes   letalidade
Países
Afghanistan                      209451    7896     3.769855
Albania                          334457    3598     1.075774
Algeria                          271496    6881     2.534476
Andorra                           47890     165     0.344540
Angola                           105288    1933     1.835917
…                                   …       …          …
West Bank and Gaza               703228    5708     0.811686
Winter Olympics 2022                535       0     0.000000
Yemen                             11945    2159    18.074508
Zambia                           343135    4057     1.182333
Zimbabwe                         264276    5671     2.145863

[201 rows x 3 columns]
```

```
Resumo COVID      Casos Confirmados   Mortes   letalidade
Países
Afghanistan                  209451     7896    3.769855
Albania                      334457     3598    1.075774
Algeria                      271496     6881    2.534476
Andorra                       47890      165    0.344540
Angola                       105288     1933    1.835917
…                                …        …         …
Vietnam                    11526994    43186    0.374651
West Bank and Gaza           703228     5708    0.811686
Yemen                         11945     2159   18.074508
Zambia                       343135     4057    1.182333
Zimbabwe                     264276     5671    2.145863

[194 rows x 3 columns]
```
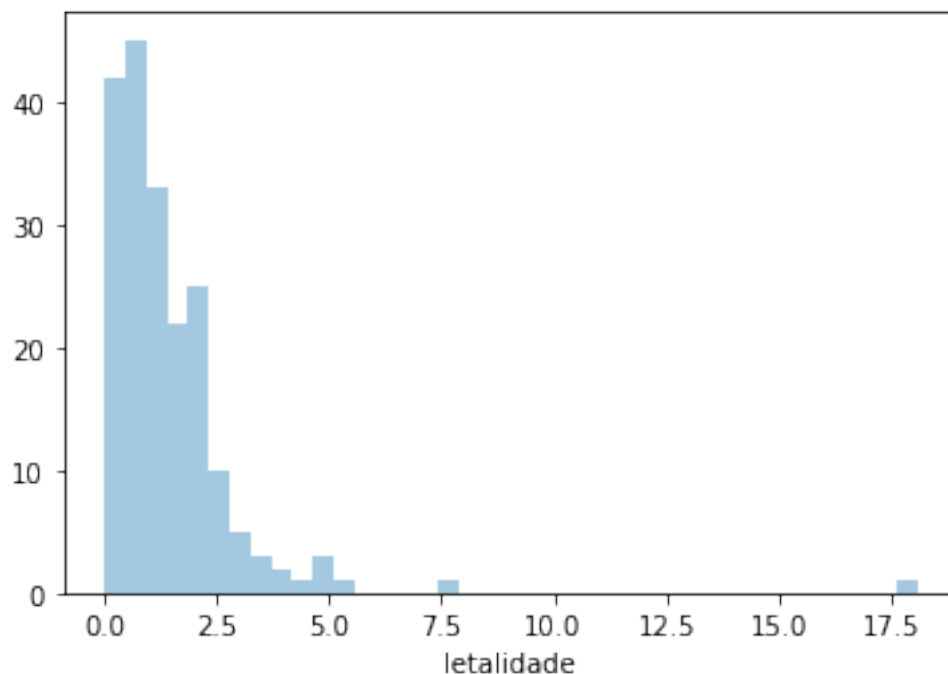

Ranking dos países - letalidade

```
<AxesSubplot:xlabel='letalidade'>
```

2.3 E globalmente?

```
[NbConvertApp] Converting notebook Principal.ipynb to html
[NbConvertApp] Writing 564153 bytes to Principal.html
[NbConvertApp] Converting notebook Principal.ipynb to pdf
[NbConvertApp] Writing 21347 bytes to notebook.tex
[NbConvertApp] Building PDF
[NbConvertApp] Running xelatex 3 times: ['xelatex', 'notebook.tex', '-quiet']
[NbConvertApp] Running bibtex 1 time: ['bibtex', 'notebook']
[NbConvertApp] WARNING | bibtex had problems, most likely because there were no
citations
[NbConvertApp] PDF successfully created
[NbConvertApp] Writing 25299 bytes to Principal.pdf
```