Final Project of MSDS 597

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Covid-19

Political Standing

```
##    State    Clinton    Trump     Other Rpt.
## 1   Ala. 34%Clinton 62%Trump 2%Johnson 100% NA
## 2 Alaska 37%Clinton 51%Trump 6%Johnson 100% NA
## 3  Ariz. 45%Clinton 48%Trump 4%Johnson 100% NA
## 4   Ark. 34%Clinton 61%Trump 3%Johnson 100% NA
## 5 Calif. 62%Clinton 32%Trump 3%Johnson 100% NA
## 6  Colo. 48%Clinton 43%Trump 5%Johnson 100% NA
```

```
##        state Clinton Trump Other_poli
## 1    alabama    0.34  0.62       0.02
## 2     alaska    0.37  0.51       0.06
## 3    arizona    0.45  0.48       0.04
## 4   arkansas    0.34  0.61       0.03
## 5 california    0.62  0.32       0.03
## 6   colorado    0.48  0.43       0.05
```

Education

Population Density

GDP

```
## Warning: NAs introduced by coercion
```

```
## Warning: NAs introduced by coercion
```

Full Table

```
##        state TotalCases TotalDeaths Cases.1M.pop Deaths.1M.pop
## 1    alabama       7434         289         1528            59
## 2     alaska        365           9          494            12
## 3    arizona       8364         348         1204            50
## 4   arkansas       3372          72         1128            24
## 5 california      52596        2160         1343            55
## 6   colorado      15768         820         2851           148
##   Tests.1M.pop Clinton Trump Other_poli Education Population   Land
```

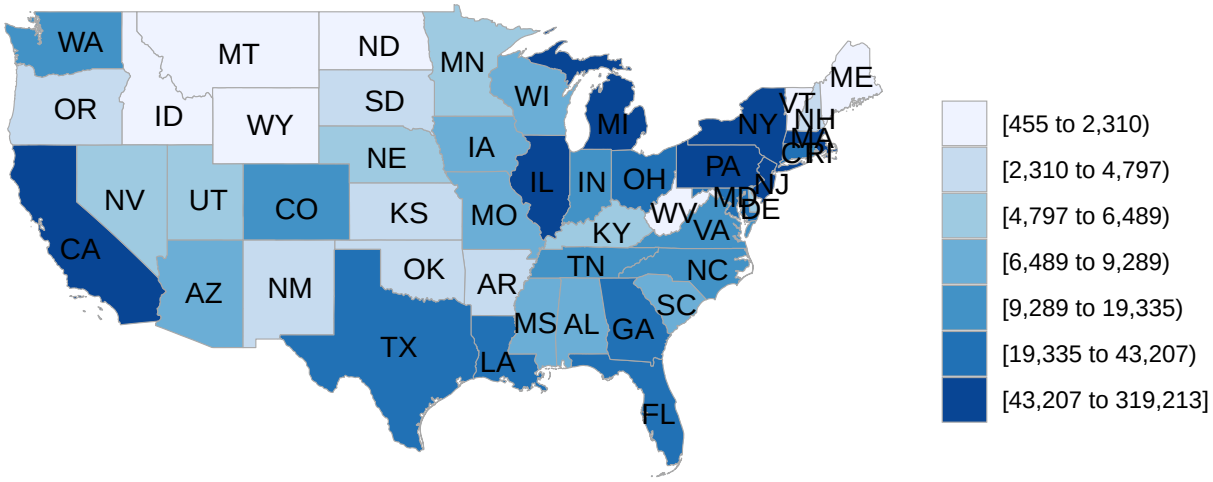
```
## 1        19911    0.34  0.62       0.02     30.23    4833722  50645
## 2        28976    0.37  0.51       0.06     49.19     735132 570641
## 3        11228    0.45  0.48       0.04     42.61    6626624 113594
## 4        17248    0.34  0.61       0.03     27.90    2959373  52035
## 5        16731    0.62  0.32       0.03     50.03   38332521 155779
## 6        13606    0.48  0.43       0.05     67.97    5268367 103642
##   Density Q4_2019 GDP_portion GDP_perCapita  Area
## 1    95.4  234054         1.1         47735 South
## 2     1.3   55759         0.3         76220  West
## 3    58.3  372522         1.7         51179  West
## 4    56.9  135225         0.6         44808 South
## 5   246.1 3183251        14.6         80563  West
## 6    50.8  396367         1.8         68828  West
```

GDP, deaths, political

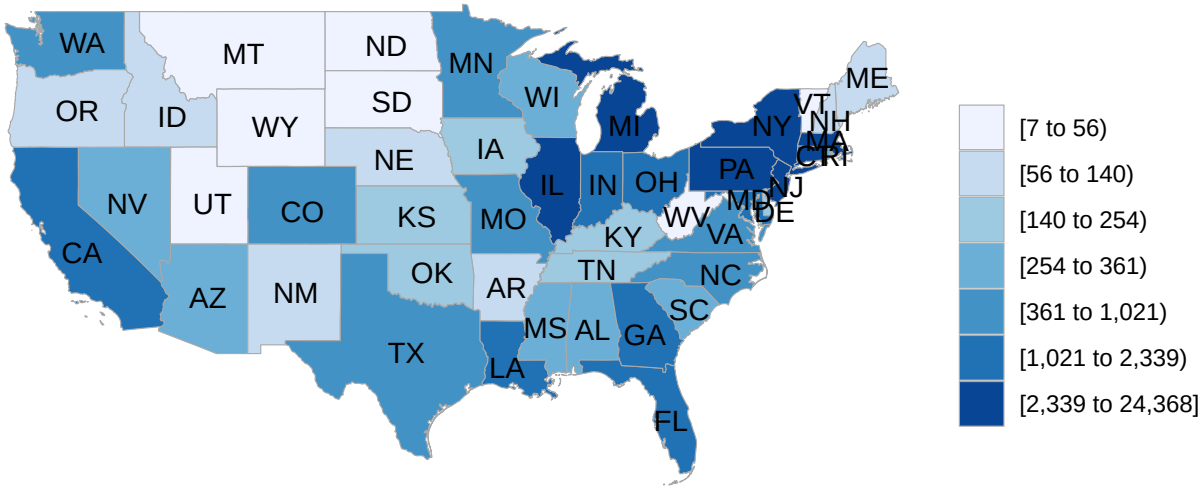
education, political

```
# total cases
total_cases <- COVID_19 %>%
  dplyr::select(state, TotalCases)
# match with choroplethr package
# change column name
names(total_cases) <- c("region", "value")

# total deaths
total_deaths <- COVID_19 %>%
  dplyr::select(state, TotalDeaths)
## match with choroplethr package
# change column name
names(total_deaths) <- c("region", "value")

# create two side-by-side choropleth maps of COVID-19 cases and deaths in the USA
data(continental_us_states)
grid.arrange(state_choropleth(total_cases, title  = "Covid-19 total cases in the US", zoom = c
             state_choropleth(total_deaths, title  = "Covid-19 total deaths in the US", zoom =
```

Covid−19 total cases in the US



Covid−19 total deaths in the US



density, GDP, deaths