

Final Project ' Visualizations

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Visualizations

SUMMARY STATISTICS

```
##           X1           X           state           cases
## Min.      :    1   Min.      :    1   Length:30978   Min.      :    2
## 1st Qu.: 8617   1st Qu.: 8617   Class :character   1st Qu.: 25681
## Median :17209   Median :17209   Mode  :character   Median : 135894
## Mean    :17330   Mean    :17330                   Mean    : 386504
## 3rd Qu.:26028   3rd Qu.:26028                   3rd Qu.: 477354
## Max.    :34953   Max.    :34953                   Max.    :5060365
##
##           deaths           new_cases           new_deaths           mask_mandate
## Min.      :    0   Min.      :    1   Min.      : -598.00   Length:30978
## 1st Qu.:  519   1st Qu.:  157   1st Qu.:   1.00   Class :character
## Median : 2546   Median :   572   Median :   7.00   Mode  :character
## Mean    : 7287   Mean    : 1557   Mean    :  25.43
## 3rd Qu.: 8592   3rd Qu.: 1629   3rd Qu.:  25.00
## Max.    :74327   Max.    :64986   Max.    :2559.00
## NA's     :568                   NA's     :568
##           date           fine_enforced           charge_enforced           not_enforced
## Min.      :2020-01-26   Mode :logical   Mode :logical   Mode :logical
## 1st Qu.:2020-08-04   FALSE:11633   FALSE:15956   FALSE:19619
## Median :2020-12-29   TRUE :17804    TRUE :13481    TRUE :9818
## Mean    :2021-01-03   NA's :1541     NA's :1541     NA's :1541
## 3rd Qu.:2021-05-31
## Max.    :2021-11-26
##
##           mandate_start           mandate_start_2           mandate_end
## Min.      :2020-04-08   Min.      :2020-10-05   Min.      :2020-05-01
## 1st Qu.:2020-05-06   1st Qu.:2020-11-09   1st Qu.:2021-03-25
## Median :2020-07-01   Median :2021-08-04   Median :2021-05-04
## Mean    :2020-06-30   Mean    :2021-04-16   Mean    :2021-04-02
## 3rd Qu.:2020-07-25   3rd Qu.:2021-08-13   3rd Qu.:2021-05-28
## Max.    :2020-12-09   Max.    :2021-08-30   Max.    :2021-07-06
## NA's     :4947       NA's     :28160       NA's     :9577
##           mandate_end_2
## Min.      :2021-04-10
## 1st Qu.:2021-04-10
## Median :2021-06-22
## Mean    :2021-07-05
```

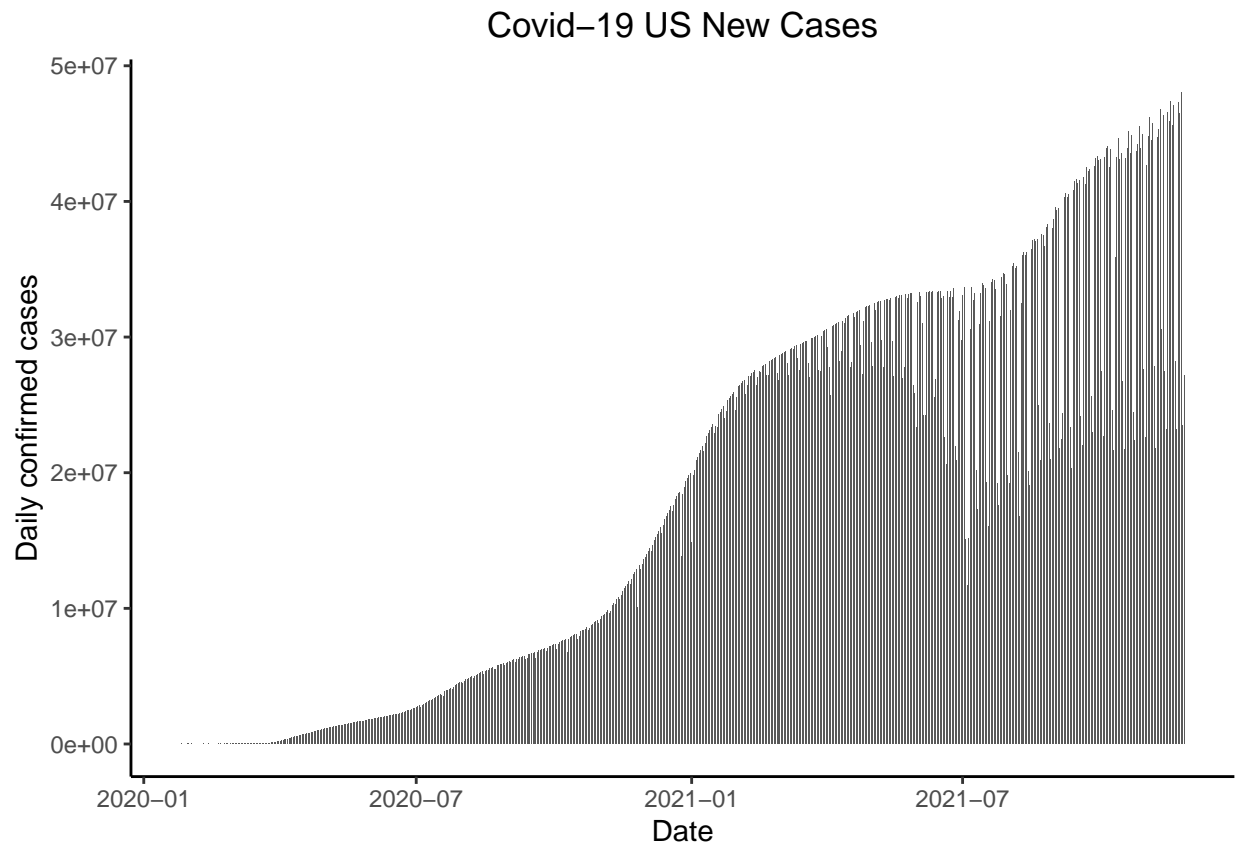
```
## 3rd Qu.:2021-10-27
## Max. :2021-10-27
## NA's :29327
```

```
##      X1      X      state      cases
## Min. : 1.0 Min. : 1.0 Length:592 Min. : 12
## 1st Qu.:173.8 1st Qu.:173.8 Class :character 1st Qu.:101044
## Median :322.5 Median :322.5 Mode :character Median :373015
## Mean :320.3 Mean :320.3 Mean :358779
## 3rd Qu.:471.2 3rd Qu.:471.2 3rd Qu.:546378
## Max. :624.0 Max. :624.0 Max. :844594
##
##      deaths      new_cases      new_deaths      mask_mandate
## Min. : 0 Min. : 6.0 Min. : -15.00 Length:592
## 1st Qu.: 1765 1st Qu.: 408.8 1st Qu.: 2.00 Class :character
## Median : 4876 Median : 926.0 Median : 13.00 Mode :character
## Mean : 6644 Mean : 1426.7 Mean : 27.22
## 3rd Qu.:11218 3rd Qu.: 1958.8 3rd Qu.: 32.00
## Max. :16115 Max. :11142.0 Max. :309.00
##
##      date      fine_enforced      charge_enforced      not_enforced
## Min. :2020-03-14 Mode :logical Mode :logical Mode:logical
## 1st Qu.:2020-08-08 FALSE:592 FALSE:592 TRUE:592
## Median :2021-01-03
## Mean :2021-01-10
## 3rd Qu.:2021-06-07
## Max. :2021-11-25
##
##      mandate_start      mandate_start_2      mandate_end      mandate_end_2
## Min. :2020-07-16 Min. :NA Min. :2021-04-09 Min. :NA
## 1st Qu.:2020-07-16 1st Qu.:NA 1st Qu.:2021-04-09 1st Qu.:NA
## Median :2020-07-16 Median :NA Median :2021-04-09 Median :NA
## Mean :2020-07-16 Mean :NA Mean :2021-04-09 Mean :NA
## 3rd Qu.:2020-07-16 3rd Qu.:NA 3rd Qu.:2021-04-09 3rd Qu.:NA
## Max. :2020-07-16 Max. :NA Max. :2021-04-09 Max. :NA
## NA's :592 NA's :592
##
##      days
## Length:592
## Class :difftime
## Mode :numeric
##
##
##
```

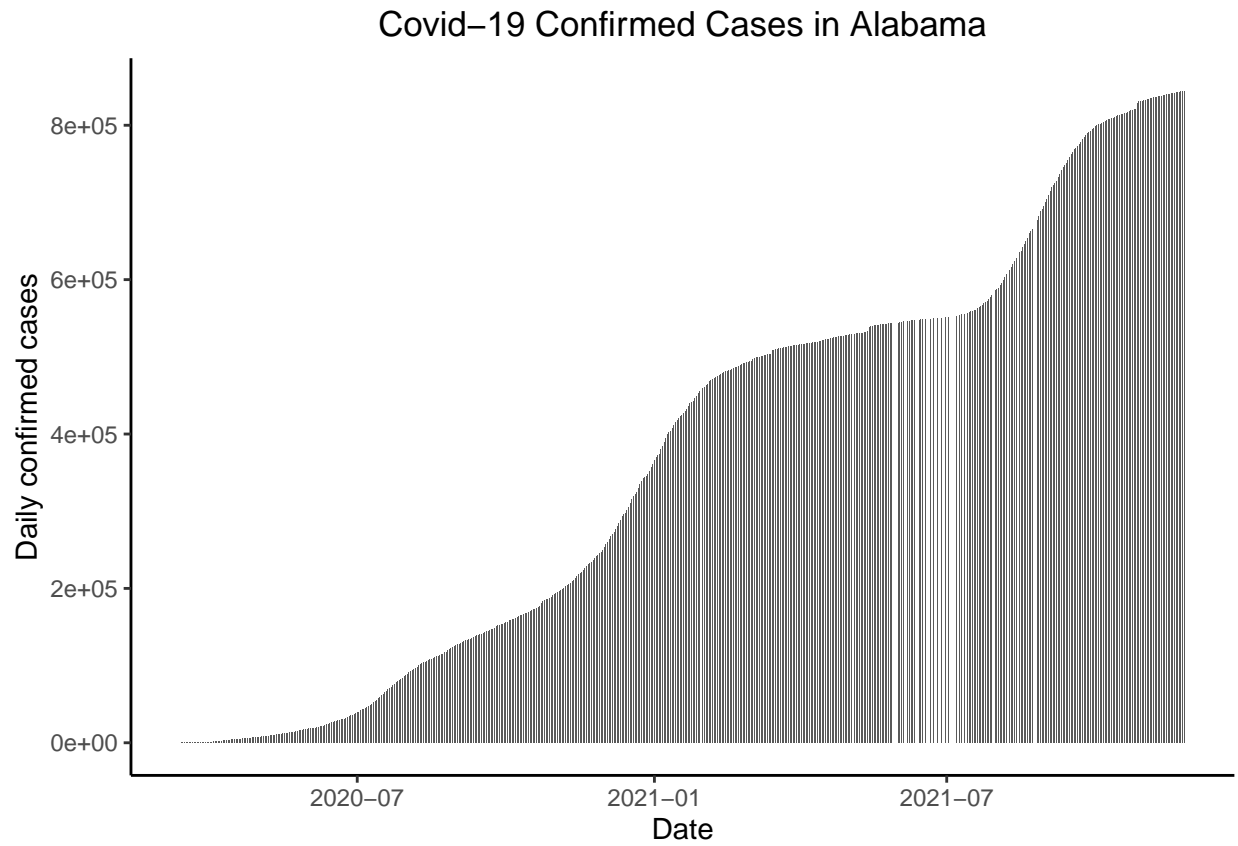
GRAPHS

Bar chart of cases over time

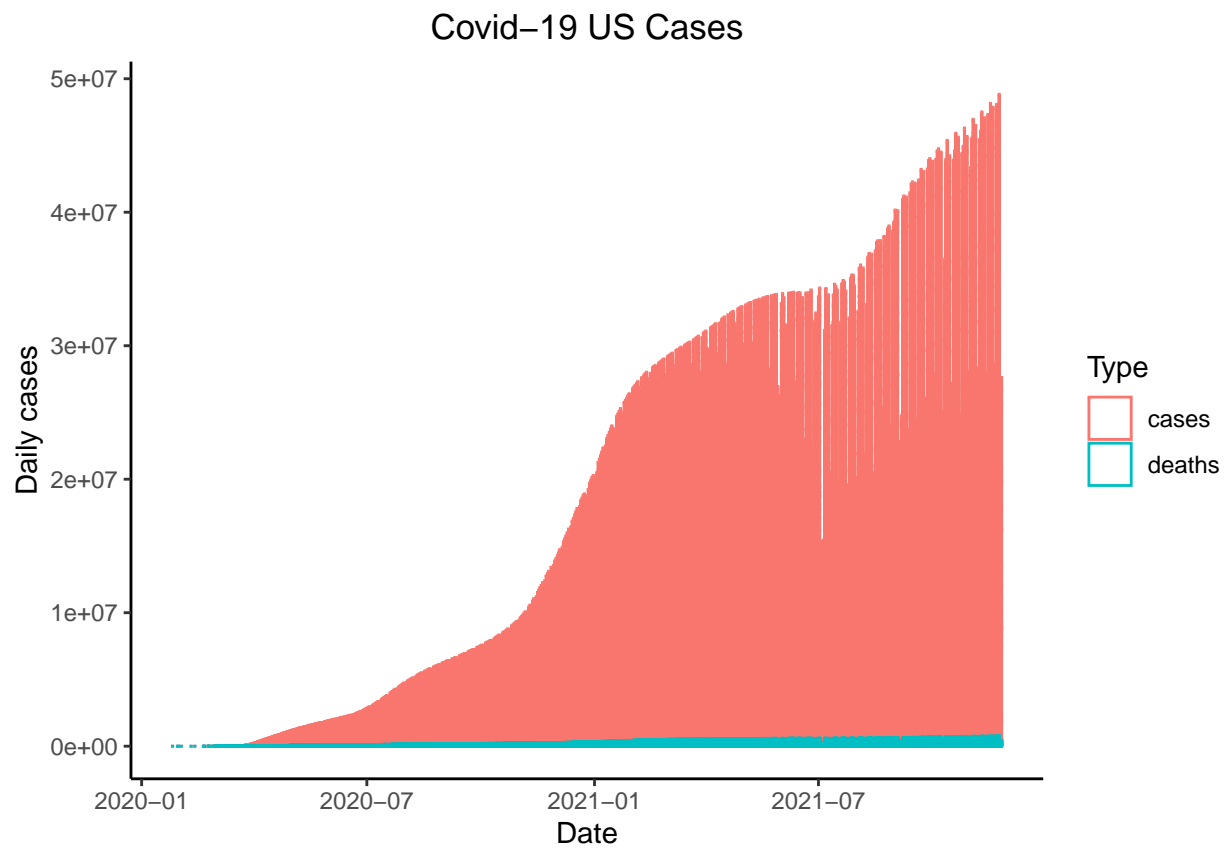
covid_data new_cases



Alabama Daily Cases



covid_data new_cases, new_deaths



Line graph of cases over time

covid_data new_cases

