

COVID-19 Variant Data

PID:A59010419

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```
variants <- read.csv( 'covid19_variants.csv' )
head(variants)
```

```
##           date      area area_type variant_name specimens percentage
## 1 2021-01-01 California      State      Gamma          0          0.00
## 2 2021-01-01 California      State      Beta           0          0.00
## 3 2021-01-01 California      State     Lambda          0          0.00
## 4 2021-01-01 California      State      Alpha          1          1.69
## 5 2021-01-01 California      State     Epsilon         28         47.46
## 6 2021-01-01 California      State      Other         29         49.15
##   specimens_7d_avg percentage_7d_avg
## 1                NA                NA
## 2                NA                NA
## 3                NA                NA
## 4                NA                NA
## 5                NA                NA
## 6                NA                NA
```

date

```
library(lubridate)
```

```
##
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':
##
##   date, intersect, setdiff, union
```

```
variants$date <- ymd(variants$date)
```

drop

```
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.1.2
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##   filter, lag
```

```
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

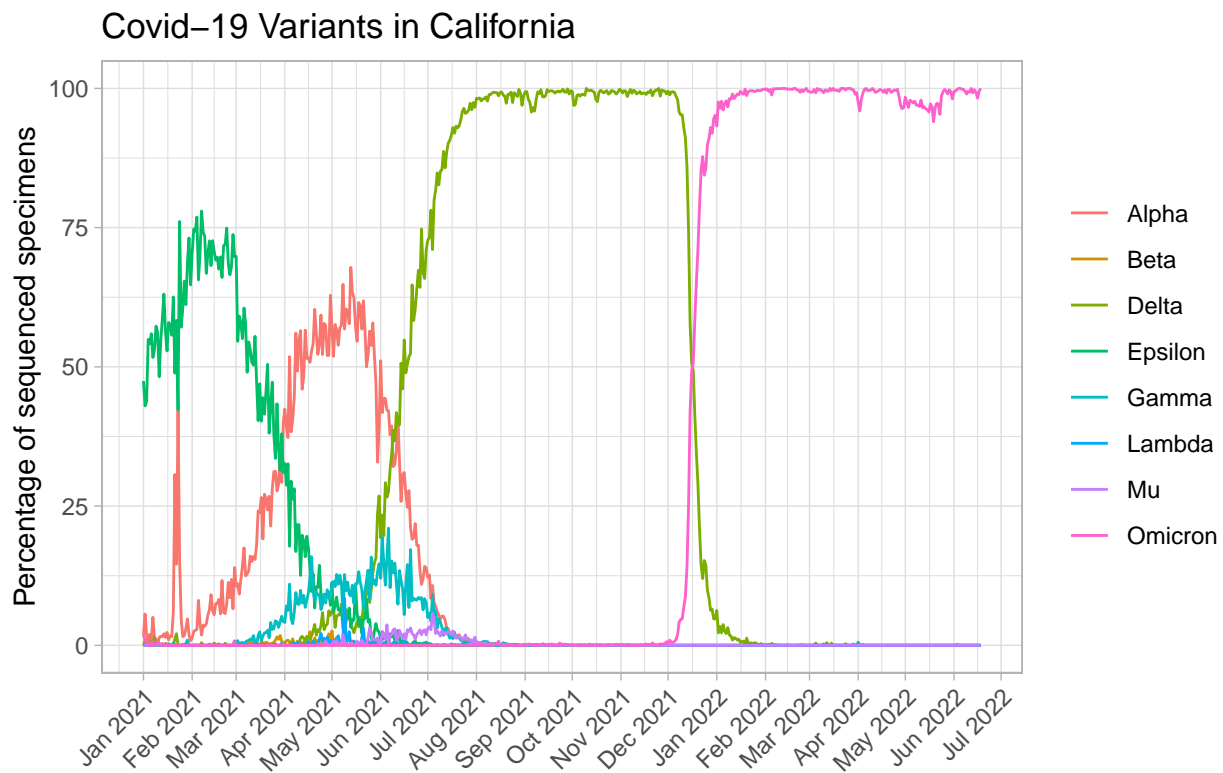
```
data<- filter(variants, variant_name != "Total")
data<- filter(data, variant_name != "Other")
```

plot

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.1.2
```

```
ggplot(data) +
  aes(date,
        percentage,color=variant_name) +
  geom_line()+ scale_x_date(date_breaks = "1 month", date_labels = "%b %Y")+labs(x="", y="Percentage of
  caption = "Data Source: <https://www.cdph.ca.gov/>" ) + theme_light() + theme(legend.title=elemen
```



Data Source: <<https://www.cdph.ca.gov/>>