Question 15

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2022-07-16

Set-up

Loading packages

```
library(ggplot2)
library(lubridate)
## Warning: package 'lubridate' was built under R version 4.1.2
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
library(dplyr)
## 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
##
Reading in the data
```

Prepping the data to be graphed

covid <- read.csv("covid19_variants.csv")</pre>

Changing to date format

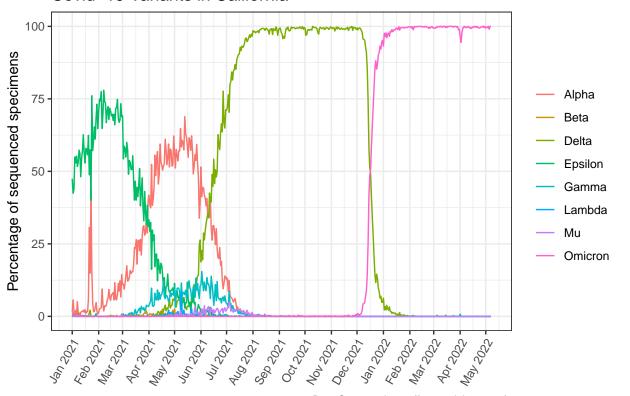
```
covid$date <- ymd(covid$date)</pre>
```

Filtering out 'Other' and 'Total' data

```
covid.trim <- covid %>%
  filter(variant_name != "Other" , variant_name != "Total")
```

Graphing

Covid-19 Variants in California



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