# Q10\_COVID\_variant

## Diwen (Steven) Gan 2023-06-18

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## Setup library

```
library(ggplot2)
library(dplyr)
```

## Import COVID19-Variant Data

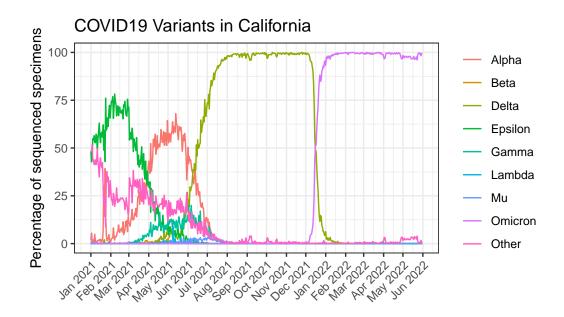
```
data <- read.csv("covid19_variants.csv")</pre>
```

#### Process the data

```
# Convert the date column to Date type
data$date <- as.Date(data$date)

# Filter out the "Total" variant and select the date range
data <- data %>%
  filter(variant_name != "Total") %>%
  filter(date >= as.Date("2021-01-01") & date <= as.Date("2022-05-31"))</pre>
```

#### Plot the data



Data source: <a href="https://data.chhs.ca.gov/">https://data.chhs.ca.gov/>

#### Session info

#### sessionInfo()

R version 4.2.1 (2022-06-23)

Platform: x86\_64-apple-darwin17.0 (64-bit) Running under: macOS Big Sur ... 10.16

Matrix products: default

BLAS: /Library/Frameworks/R.framework/Versions/4.2/Resources/lib/libRblas.0.dylib LAPACK: /Library/Frameworks/R.framework/Versions/4.2/Resources/lib/libRlapack.dylib

#### locale:

[1] en\_US.UTF-8/en\_US.UTF-8/en\_US.UTF-8/C/en\_US.UTF-8/en\_US.UTF-8

attached base packages:

[1] stats graphics grDevices utils datasets methods base

other attached packages:

[1] dplyr\_1.1.2 ggplot2\_3.4.2

### loaded via a namespace (and not attached):

[1]	rstudioapi_0.14	knitr_1.42	magrittr_2.0.3	<pre>tidyselect_1.2.0</pre>
[5]	munsell_0.5.0	<pre>colorspace_2.1-0</pre>	R6_2.5.1	rlang_1.1.1
[9]	fastmap_1.1.1	fansi_1.0.4	tools_4.2.1	grid_4.2.1
[13]	gtable_0.3.3	xfun_0.39	utf8_1.2.3	cli_3.6.1
[17]	withr_2.5.0	htmltools_0.5.5	yaml_2.3.7	digest_0.6.31
[21]	tibble_3.2.1	lifecycle_1.0.3	farver_2.1.1	vctrs_0.6.2
[25]	glue_1.6.2	evaluate_0.21	rmarkdown_2.21	labeling_0.4.2
[29]	compiler_4.2.1	pillar_1.9.0	generics_0.1.3	scales_1.2.1
[33]	jsonlite_1.8.4	pkgconfig_2.0.3		