

Assignment 3

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```
rm(list = ls())

suppressPackageStartupMessages(library(tidyverse))
suppressPackageStartupMessages(library(gdata))
suppressPackageStartupMessages(library(httr))
suppressPackageStartupMessages(library(jsonlite))

# Found code at: https://stackoverflow.com/questions/35120167/convert-json-url-to-r-data-f

df <- fromJSON("https://static01.nyt.com/newsgraphics/2021/12/20/us-coronavirus-deaths-2021-12-20")

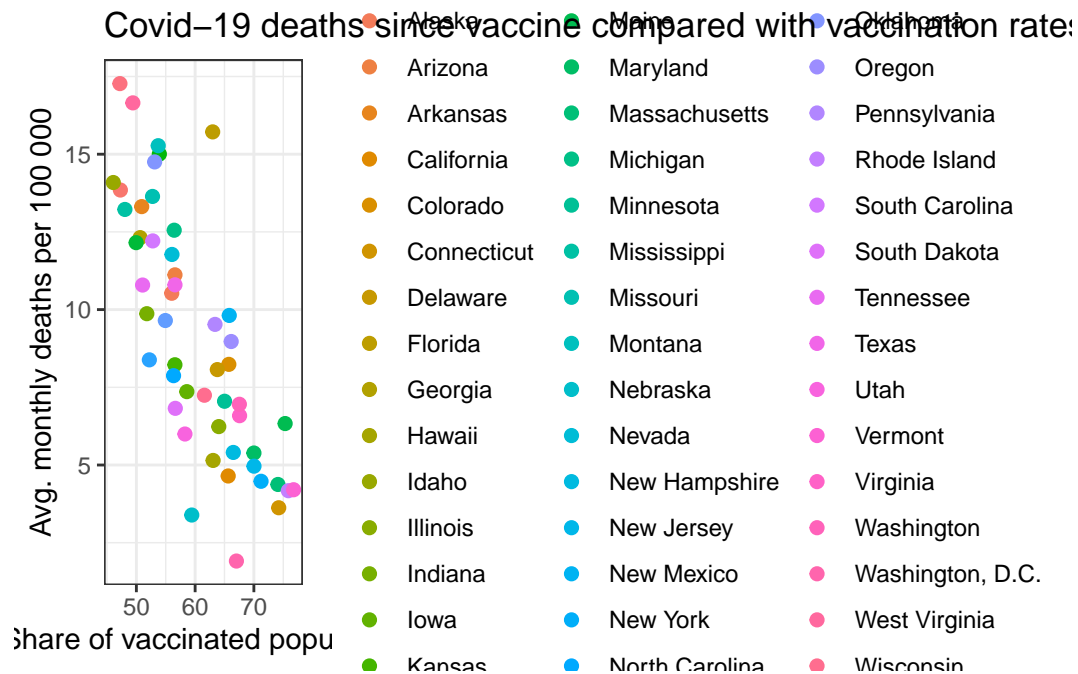
df <- mutate(df, percent_share = fully_vaccinated_pct_of_pop*100)

ggplot(data=df, aes(x = percent_share, y = deaths_per_100k, color=name)) +

  geom_point(size=2) +

  labs (title = "Covid-19 deaths since vaccine compared with vaccination rates", y = "Avg. deaths per 100k")

theme_bw()
```



```
lm(deaths_per_100k ~ percent_share, data=df)
```

Call:

```
lm(formula = deaths_per_100k ~ percent_share, data = df)
```

Coefficients:

```
(Intercept)  percent_share
    31.1485      -0.3666
```

```
ggplot(data=df, aes(x = percent_share, y = deaths_per_100k, color=name)) +
```

```
  geom_point(size=2) +
```

```
  geom_smooth(method = lm) +
```

```
  labs (title = "Covid-19 deaths since vaccine compared with vaccination rates", y = "Avg.
```

```
  theme_bw()
```

```
`geom_smooth()` using formula = 'y ~ x'
```

