

Visualizations Practice 2

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Including Plots

```
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.0 --

## v ggplot2 3.3.3      v purrr 0.3.4
## v tibble 3.1.0       v dplyr 1.0.5
## v tidyr 1.1.3        v stringr 1.4.0
## v readr 1.4.0        v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

library(ggthemes)
library(ggrepel)
library(gridExtra)

##
## Attaching package: 'gridExtra'

## The following object is masked from 'package:dplyr':
##
##      combine

library(ggExtra)
library(cowplot)

##
## Attaching package: 'cowplot'

## The following object is masked from 'package:ggthemes':
##
##      theme_map
```

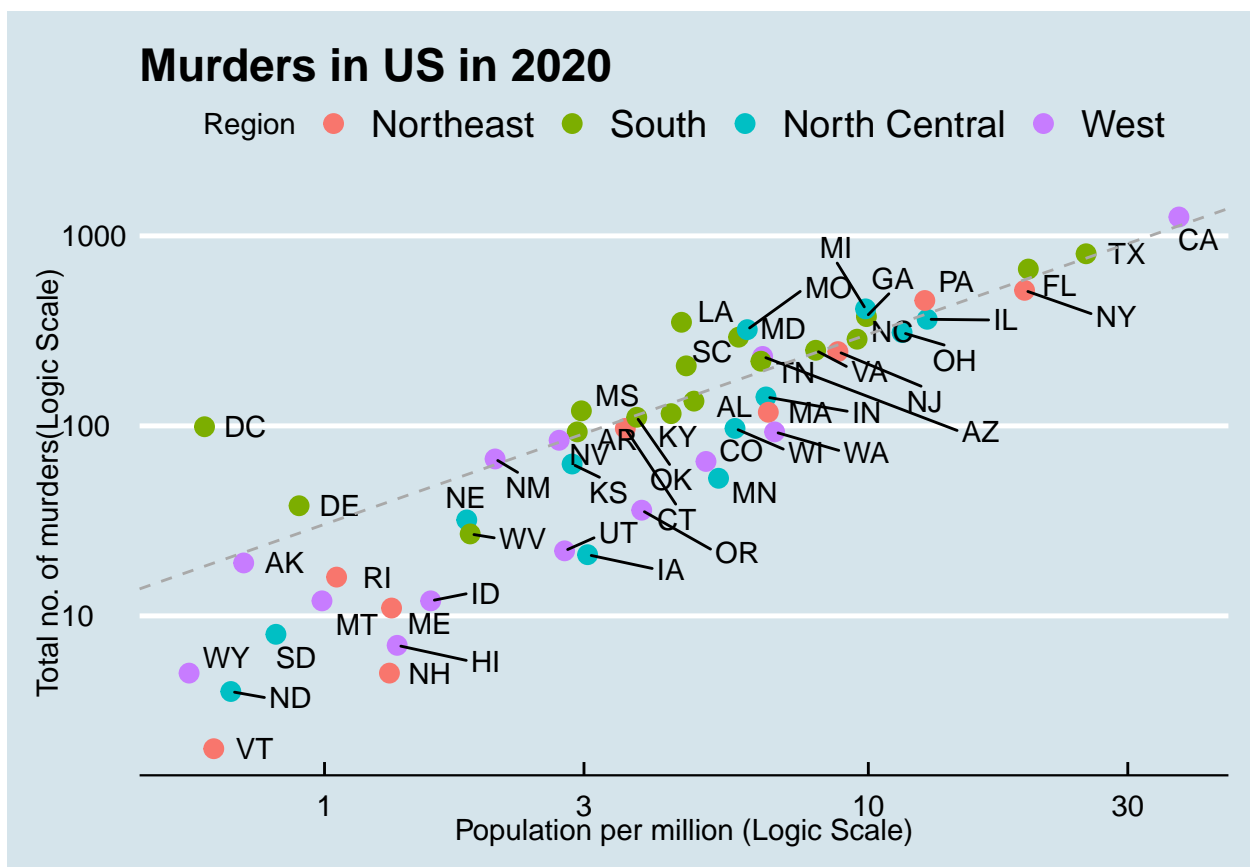
```

library(gtools)
library(knitr)
library(rmarkdown)
library(tinytex)
#datasets
library(dslabs)
library(nycflights13)
library(NHANES)
library(titanic)

murder_rate <- murders %>% summarize(rate = sum(total)/sum(population) * 10^6) %>% pull(rate)

murders %>%
  ggplot(aes(population/10^6, total, label = abb)) +
  geom_point(aes(color = region), size = 3) + geom_text_repel(nudge_x = 0.075) +
  theme_economist() + scale_x_log10() + scale_y_log10() +
  xlab("Population per million (Logic Scale)") +
  ylab("Total no. of murders(Logic Scale)") +
  geom_abline(intercept = log10(murder_rate), lty = 2, color = "darkgrey") +
  ggtitle("Murders in US in 2020") + scale_color_discrete(name = "Region")

```



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.