covid-19-analysis

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R. Markdown

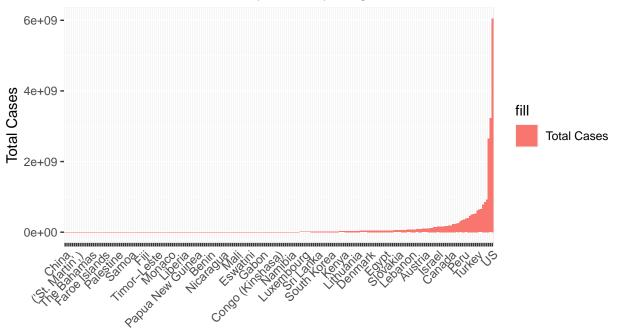
```
library(tidyverse)
## Warning: package 'tidyverse' was built under R version 4.2.3
## Warning: package 'ggplot2' was built under R version 4.2.3
## Warning: package 'tibble' was built under R version 4.2.3
## Warning: package 'tidyr' was built under R version 4.2.3
## Warning: package 'purrr' was built under R version 4.2.3
## Warning: package 'dplyr' was built under R version 4.2.3
## Warning: package 'forcats' was built under R version 4.2.3
## Warning: package 'lubridate' was built under R version 4.2.3
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.2
                       v readr
                                   2.1.4
## v forcats 1.0.0
                       v stringr
                                  1.5.0
## v ggplot2 3.4.2
                    v tibble
                                   3.2.1
## v lubridate 1.9.2
                        v tidyr
                                   1.3.0
## v purrr
              1.0.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                 masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
```

Replace "path/to/covid_19_data.csv" with the actual path to the CSV file

covid_data <- read_csv("covid_19_data.csv")</pre>

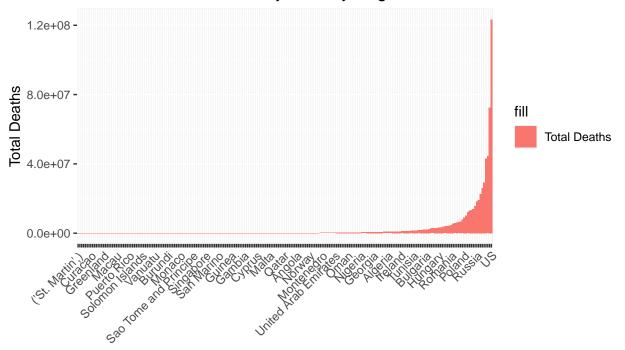
```
## Rows: 306429 Columns: 8
## -- Column specification -----
## Delimiter: ","
## chr (4): ObservationDate, Province/State, Country/Region, Last Update
## dbl (4): SNo, Confirmed, Deaths, Recovered
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
# Convert the ObservationDate column to a date object
covid_data$ObservationDate <- as.Date(covid_data$ObservationDate, format = "%m/%d/%Y")</pre>
# Summarize the data by country/region and calculate the total cases, deaths, and recovered
country_data <- covid_data %>%
 group_by(`Country/Region`) %>%
 summarise(TotalCases = sum(Confirmed),
           TotalDeaths = sum(Deaths),
           TotalRecovered = sum(Recovered)) %>%
 arrange(desc(TotalCases))
# Bar plot for total cases, deaths, and recovered
ggplot(country_data, aes(x = reorder(`Country/Region`, TotalCases), y = TotalCases, fill = "Total Cases
 geom_bar(stat = "identity") + scale_x_discrete(guide = guide_axis(check.overlap = TRUE)) +
 labs(title = "Total COVID-19 Cases by Country/Region",
      x = "Country/Region",
      y = "Total Cases")+
 theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

Total COVID-19 Cases by Country/Region

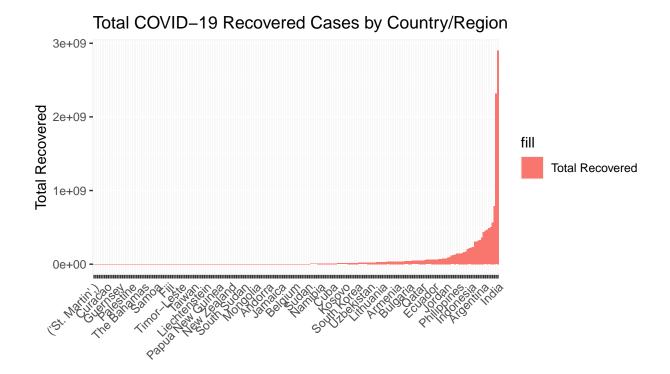


Country/Region

Total COVID-19 Deaths by Country/Region



Country/Region



Country/Region