Transform Covid-19 format

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Download Library

```
library(readxl)
library(tidyverse)
```

Import Data to R studio

```
confirm <- read_csv("time_series_covid19_confirmed_global.csv")

deaths <- read_csv("time_series_covid19_deaths_global.csv")

recovered <- read_csv("time_series_covid19_recovered_global.csv")</pre>
```

Check Observation / Rows

```
confirm <- as_tibble(confirm)
# 279 Rows*635 Col

deaths <- as_tibble(deaths)
# 279 Rows*635 Col

recovered <- as_tibble(recovered)
# 264 Rows*635 Col</pre>
```

These data are kept with Wide Format, So we need the Long Format for analyzing.

Create New Column & Identify File Type

```
confirm <- confirm %>% mutate(fromfile = "Confirmed")
deaths <- deaths %>% mutate(fromfile = "Deaths")
recovered <- recovered %>% mutate(fromfile = "Recovered")
```

Combine Data

```
all_data <- list(confirm, deaths, recovered)
all_data <- bind_rows(all_data)

View(all_data) # 822 rows * 636 Column</pre>
```

Drop Irrelevent Column

```
#colnames(all_data)
all_data <- all_data %>% select(-"Province/State",-"Lat", -"Long")
View(all_data)
```

Group by and Sum

Data showed duplicated countries where keep data in each area separately (ex. Australia: Victoria, New South Wales), So these data should be combined into 1 number per country per day.

Transform Wide to Long Format

Export csv.file

```
write_csv(long,"/Users/Chanyanart/Desktop/Coding/COVID_19/covid_lastest_date.csv")
```