

# Example of wrangling and plotting COVID-19 data

Cyrus Maz

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```
source("covid_R_tools.R")

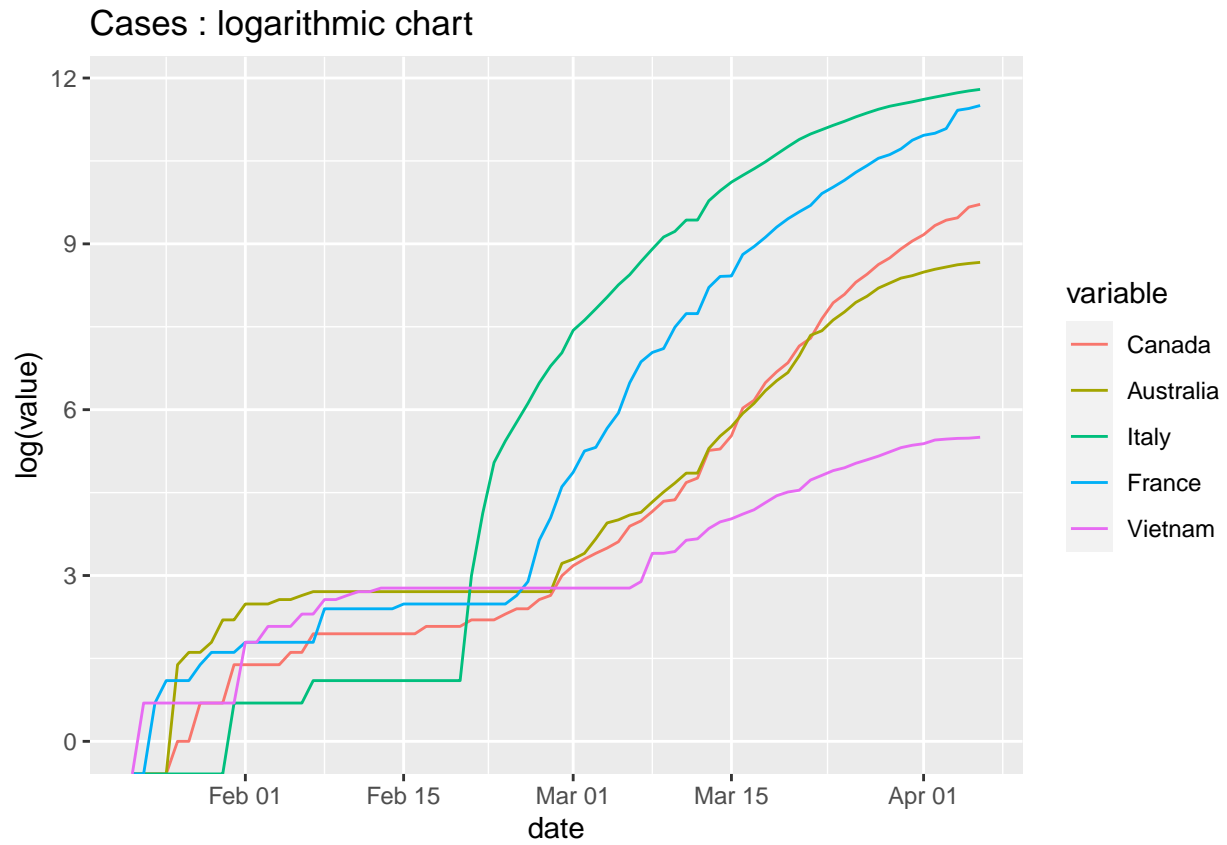
cases_df=update_cases_df()
deaths_df=update_deaths_df()

country_names=c("Canada", "Australia", "Italy", "France", "Vietnam")

countries_cases=get_counts_by_country(cases_df,country_names)
countries_deaths_df=get_counts_by_country(deaths_df,country_names)
```

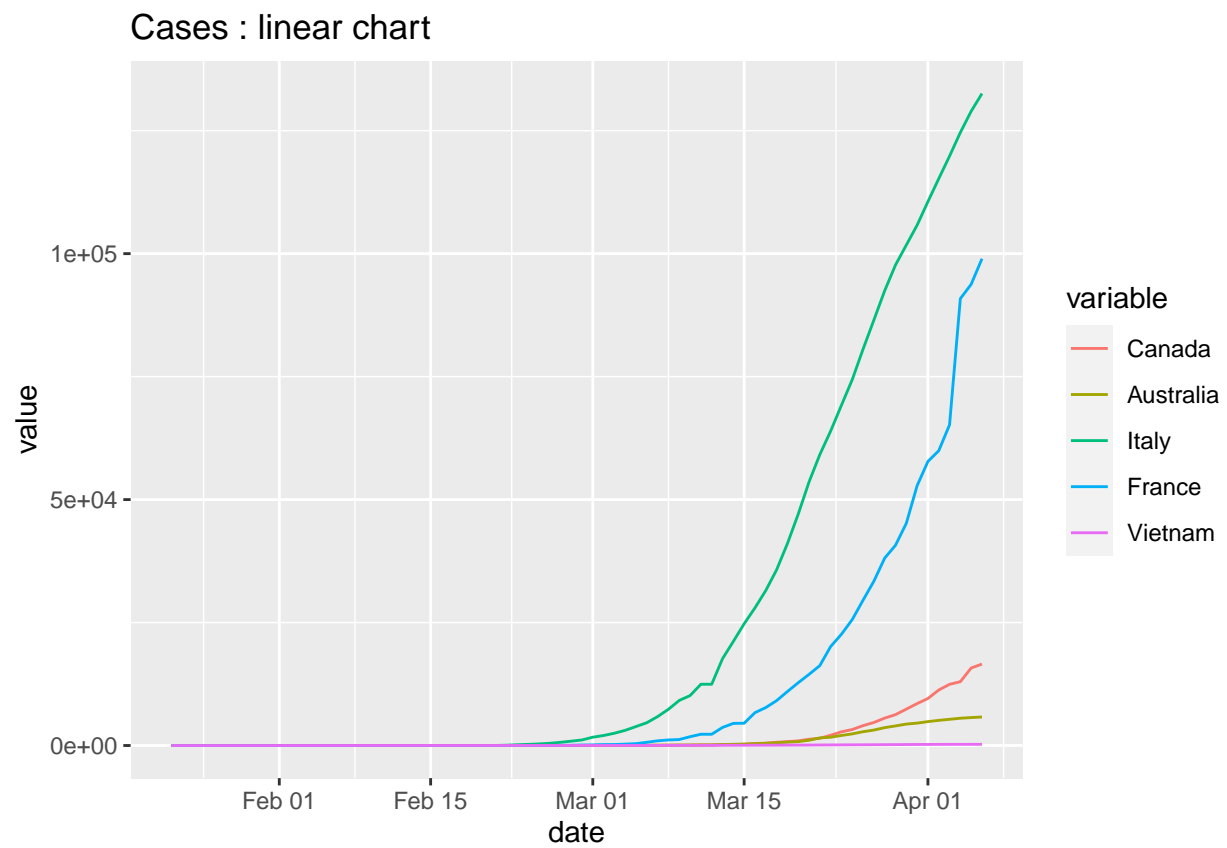
# Logarithmic Chart of cases in Canada, Australia, Italy, France, Vietnam

```
plot_log(countries_cases,lab="Cases")
```



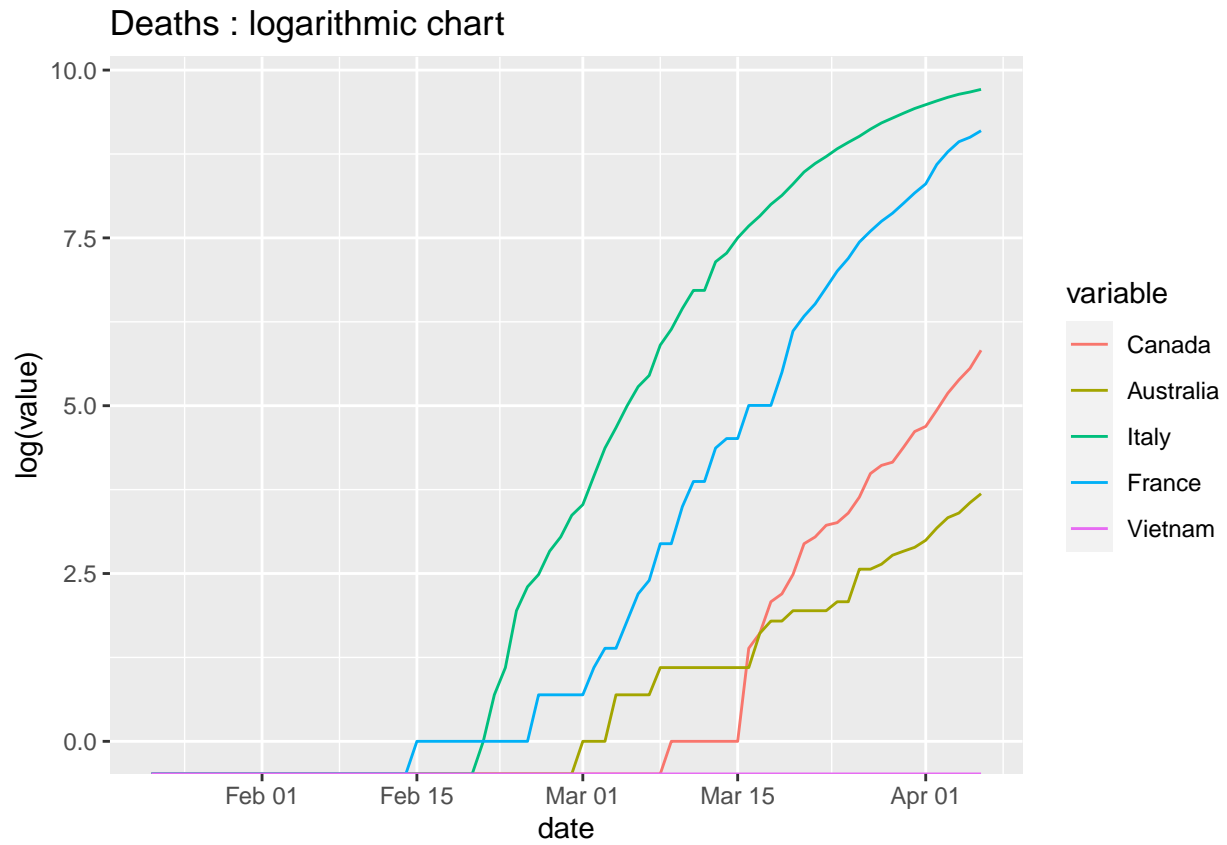
## Linear Chart of cases in Canada, Australia, Italy, France, Vietnam

```
plot_linear(df=countries_cases,lab="Cases")
```



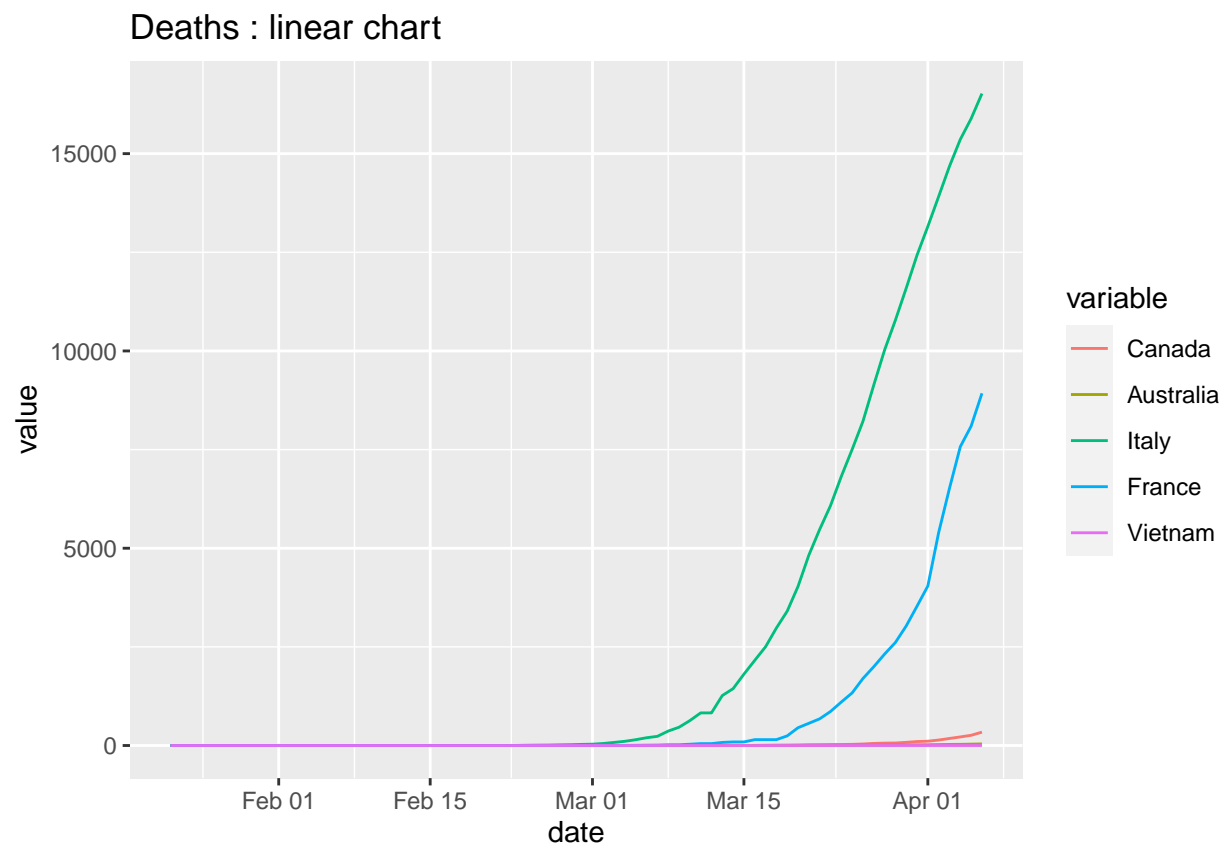
# Logarithmic Chart of Deaths in Canada, Australia, Italy, France, Vietnam

```
plot_log(countries_deaths_df, lab="Deaths")
```



## Logarithmic Chart of Deaths in Canada

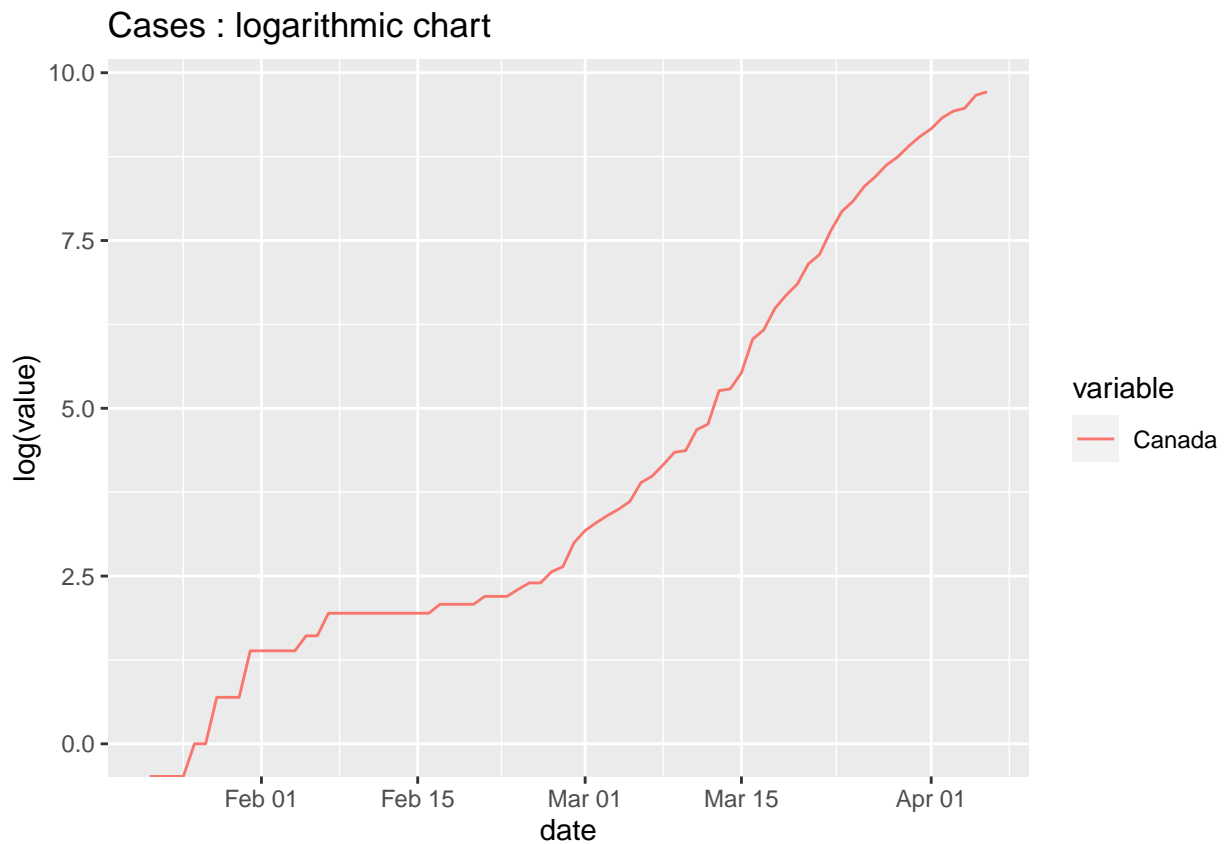
```
plot_linear(df=countries_deaths_df,lab="Deaths")
```



```
country_name="Canada"  
Canada_cases=get_counts_by_country(cases_df,country_name)  
  
Canada_deaths=get_counts_by_country(deaths_df,country_name)
```

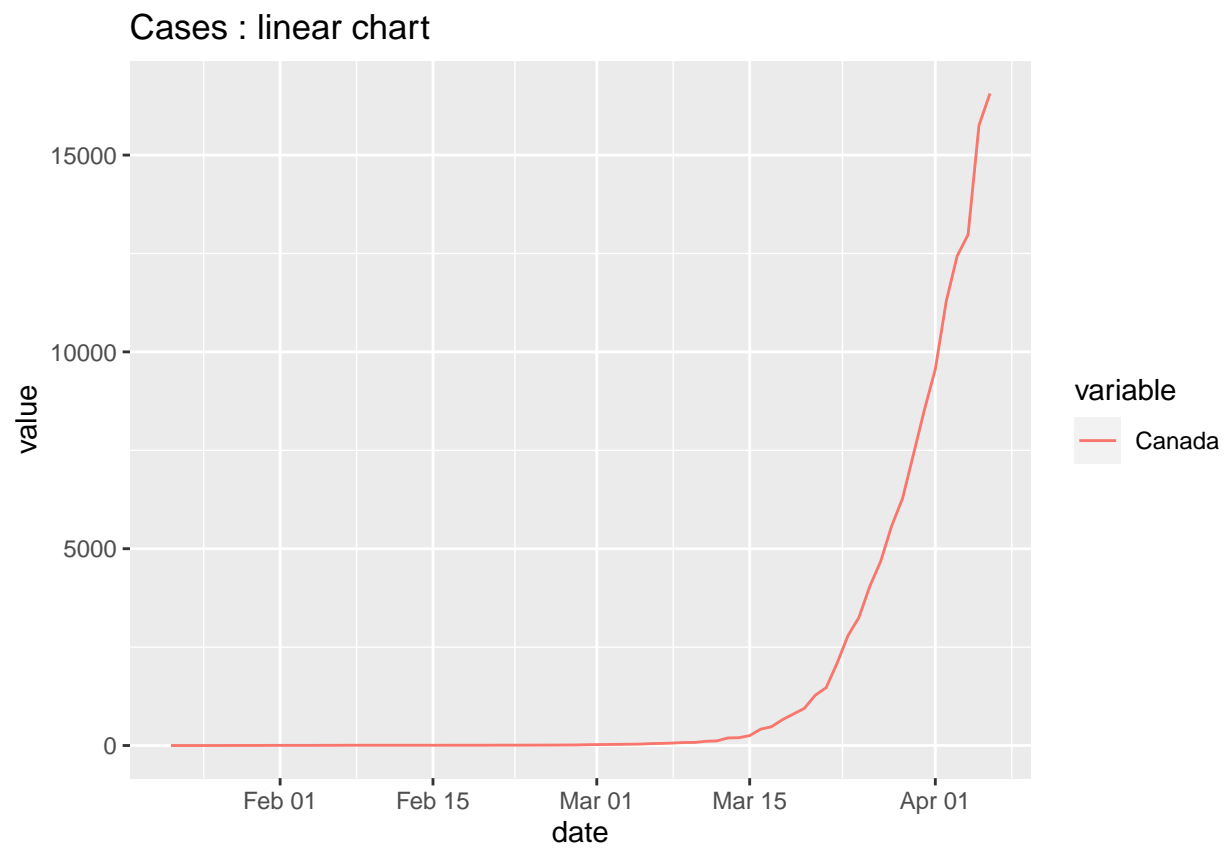
## Logarithmic Chart of Cases in Canada

```
plot_log(Canada_cases,lab="Cases")
```



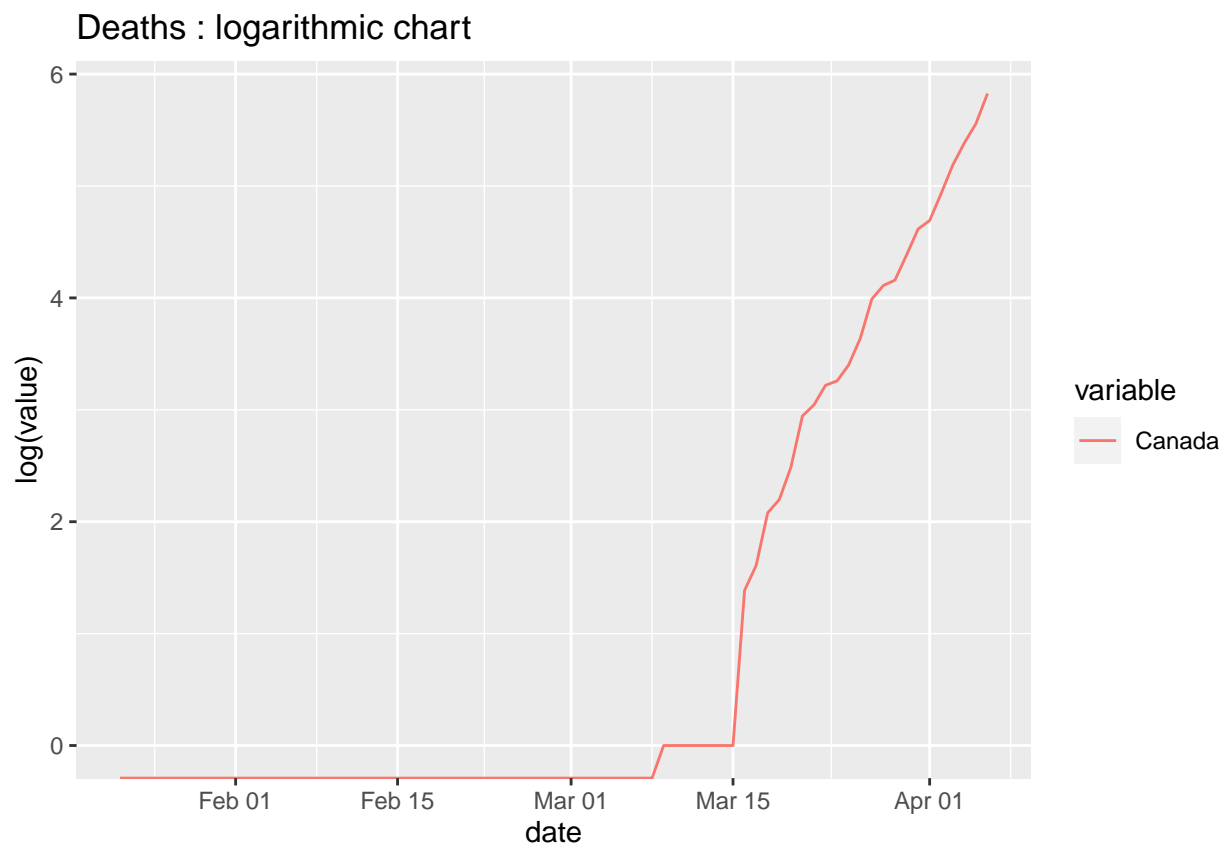
## Linear Chart of Deaths in Canada

```
plot_linear(Canada_cases, lab="Cases")
```



## Logarithmic Chart of Deaths in Canada

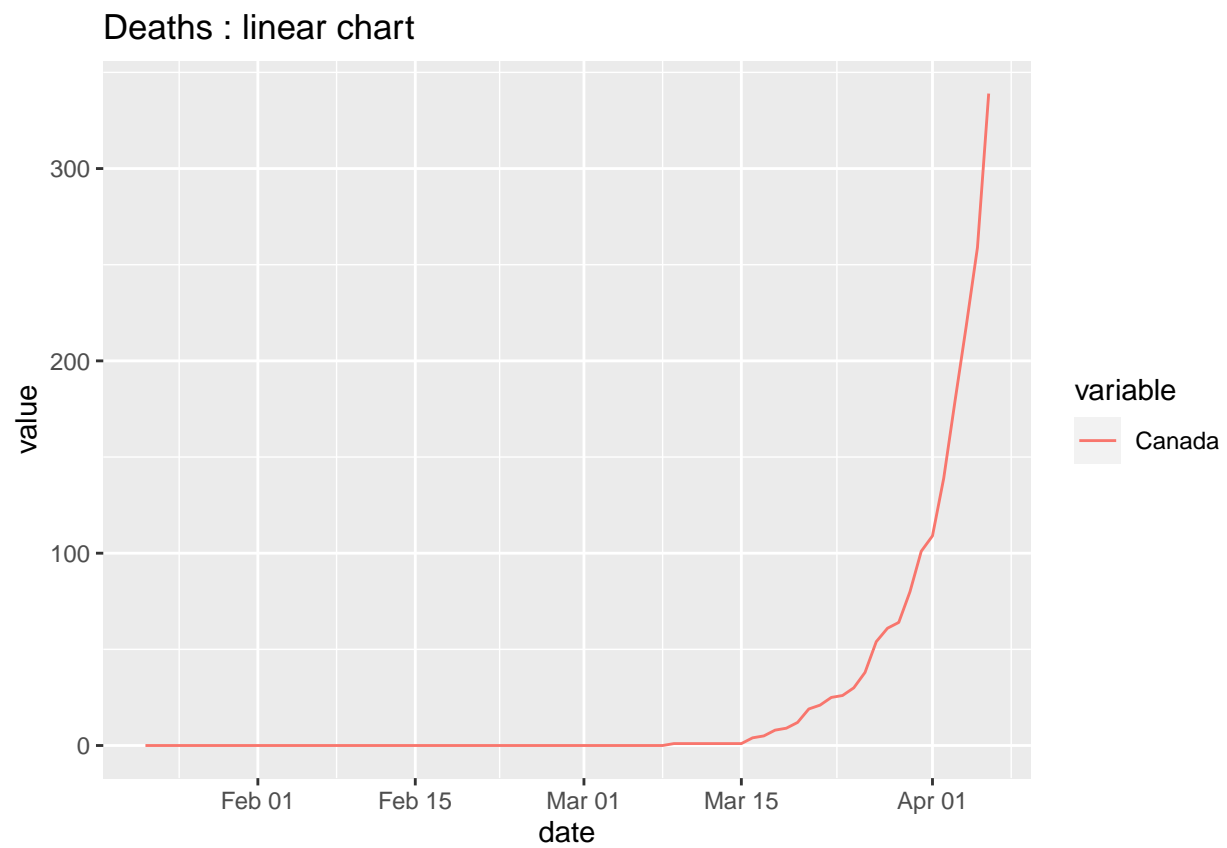
```
plot_log(Canada_deaths,lab="Deaths")
```





## Linear Chart of Deaths in Canada

```
plot_linear(Canada_deaths, lab="Deaths")
```

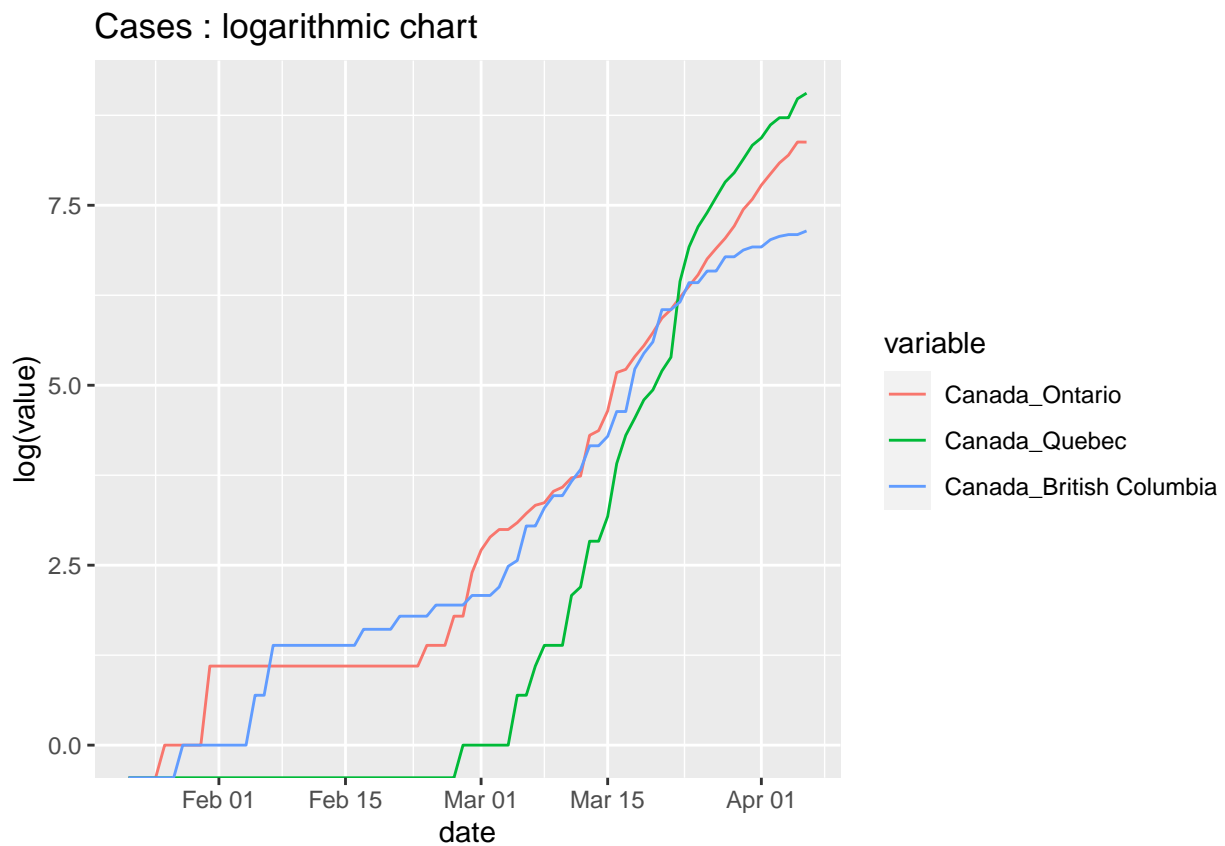


## Get the provincial case/death counts

```
provinces_cases=get_counts_by_provinces(cases_df,country_name)
provinces_deaths=get_counts_by_provinces(deaths_df,country_name)
```

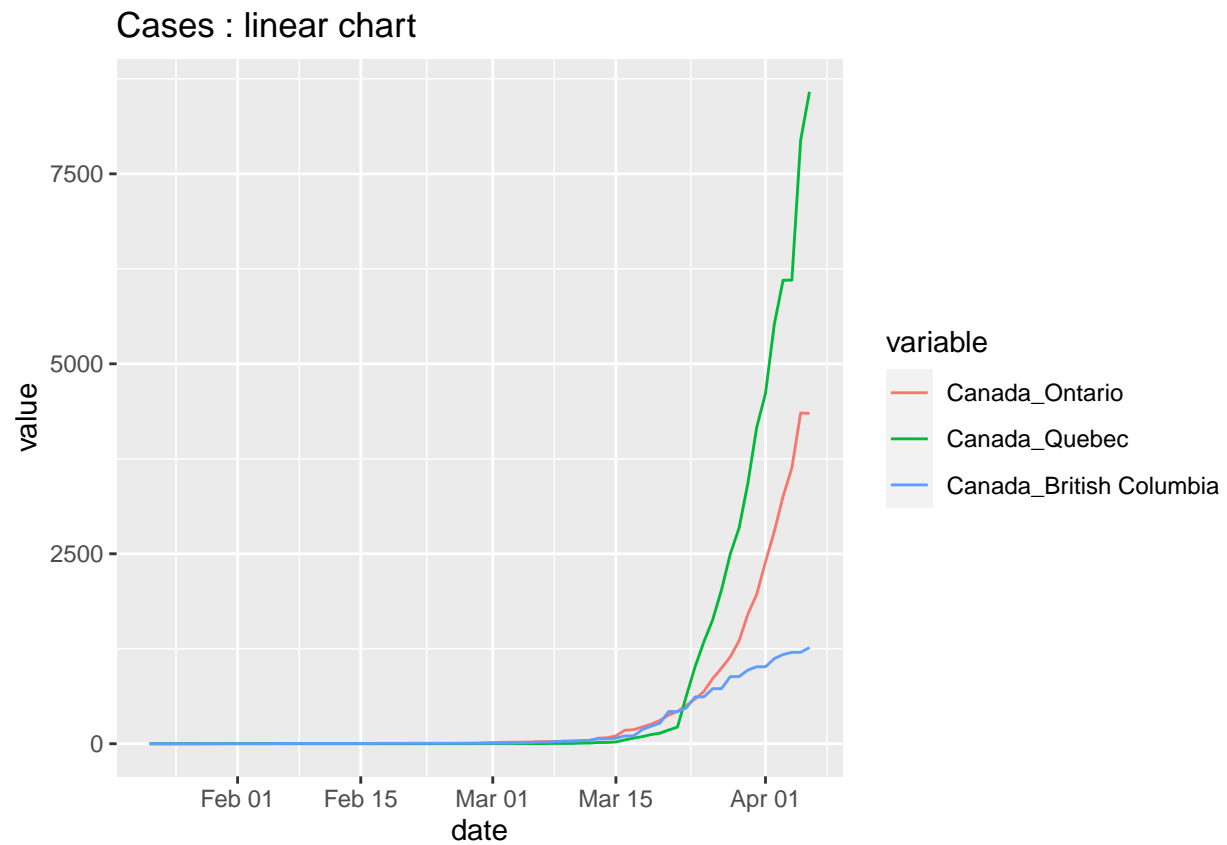
## Logarithmic Chart of Cases in Ontario, Quebec, and BC

```
plot_log(provinces_cases,
         provinces=c("Canada_Ontario", "Canada_Quebec","Canada_British Columbia"),
         lab="Cases")
```



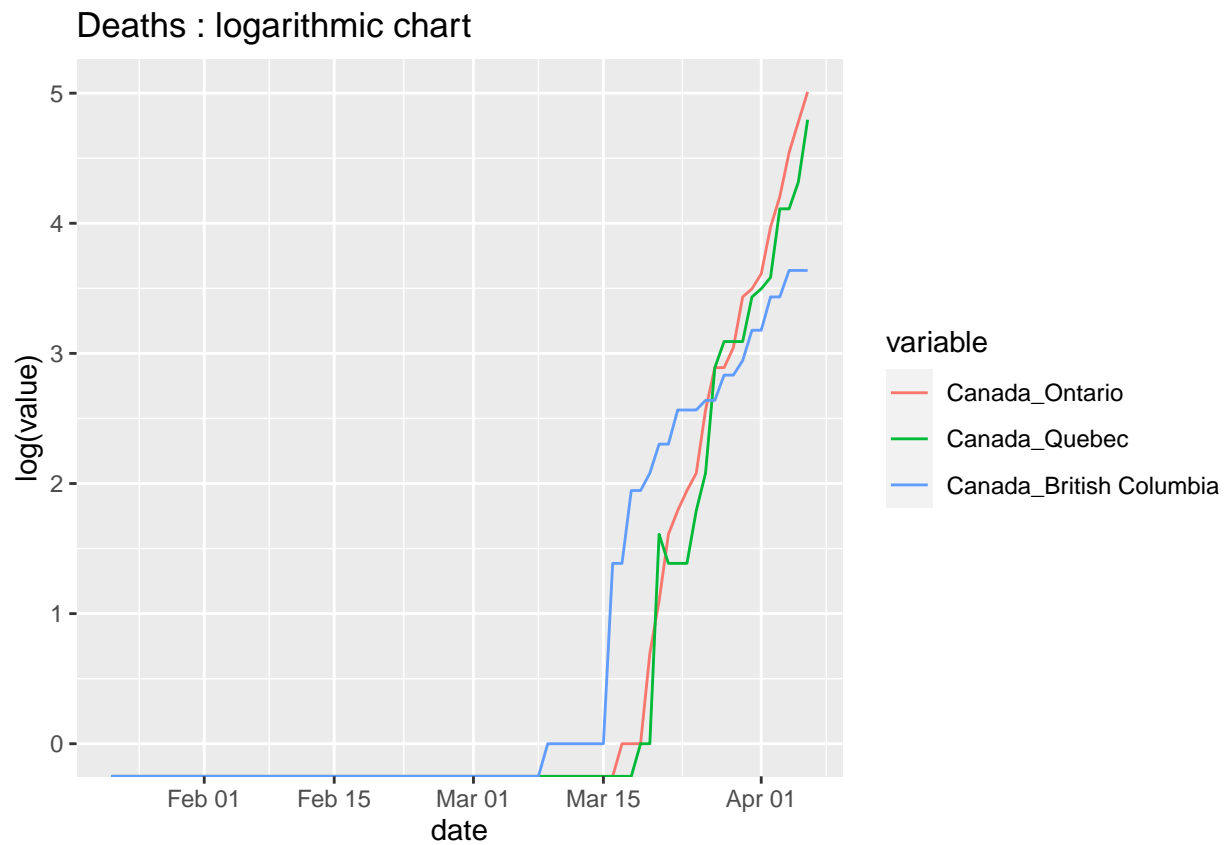
## Linear Chart of Cases in Ontario, Quebec, and BC

```
plot_linear(provinces_cases,  
            provinces=c("Canada_Ontario", "Canada_Quebec","Canada_British Columbia"),  
            lab="Cases")
```



## Logarithmic Chart of Deaths in Ontario, Quebec, and BC

```
plot_log(provinces_deaths,  
         provinces=c("Canada_Ontario", "Canada_Quebec","Canada_British Columbia"),  
         lab="Deaths")
```



## Linear Chart of Deaths in Ontario, Quebec, and BC

```
plot_linear(provinces_deaths,  
            provinces=c("Canada_Ontario", "Canada_Quebec","Canada_British Columbia"),  
            lab="Deaths")
```

