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Expert advice from experts

Marie Curie

Nobel Prize, PhD

Pierre Curie

Nobel Prize, PhD

Report for
Acme Corporation

26 April 2023



```
## Rows: 16114 Columns: 11
## -- Column specification -----
## Delimiter: ","
## chr (5): dateRep, countriesAndTerritories, geoId, countryterritoryCode, cont...
## dbl (6): day, month, year, cases, deaths, popData2018
##
## 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.
```

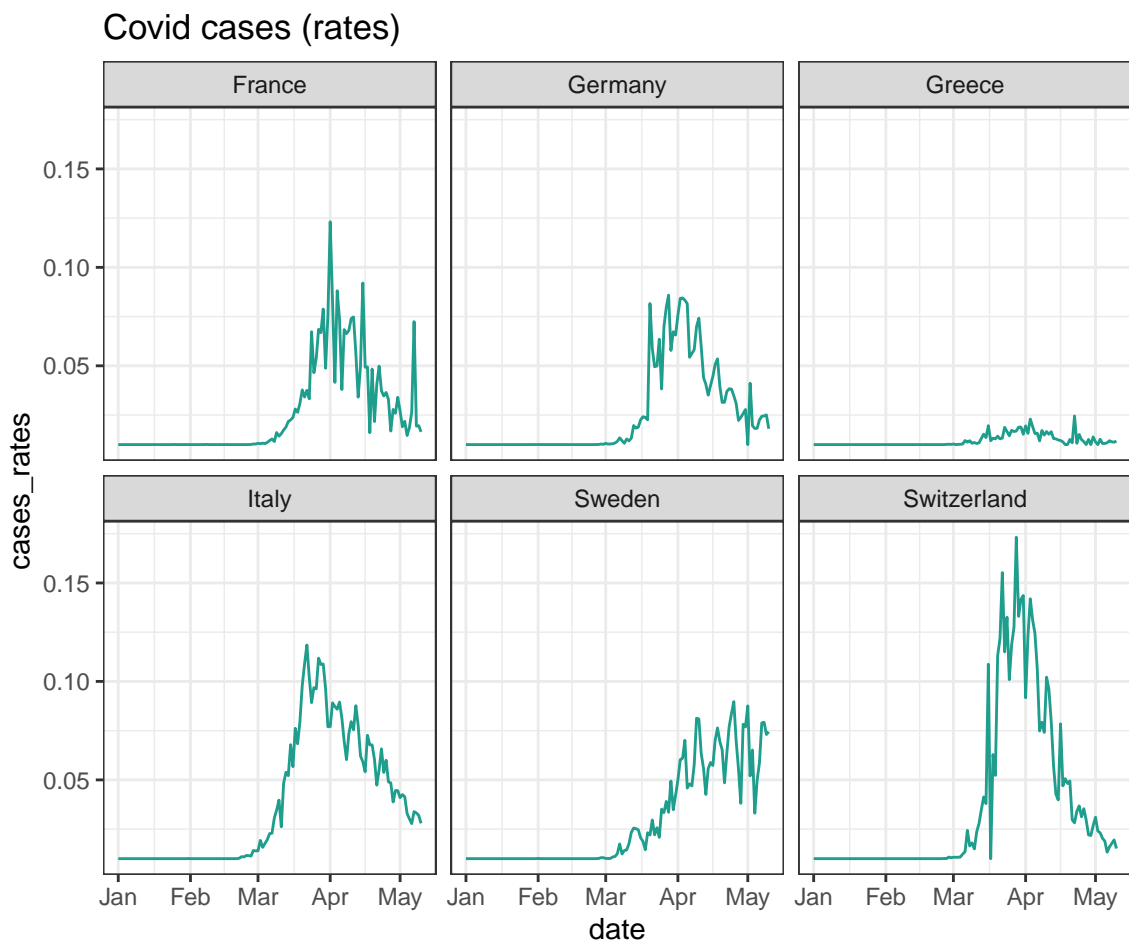


Figure 1: Rates of covid cases over time for selected countries

```
## # A tibble: 16,047 x 14
##   dateRep      day month  year cases deaths countriesAndTerritories geoId
##   <chr>      <dbl> <dbl> <dbl> <dbl> <dbl> <chr>                <chr>
## 1 10/05/2020    10     5  2020   255      6 Afghanistan            AF
## 2 09/05/2020     9     5  2020   215      3 Afghanistan            AF
## 3 08/05/2020     8     5  2020   171      2 Afghanistan            AF
```

```
## 4 07/05/2020      7      5 2020 168      9 Afghanistan      AF
## 5 06/05/2020      6      5 2020 330      5 Afghanistan      AF
## 6 05/05/2020      5      5 2020 190      5 Afghanistan      AF
## 7 04/05/2020      4      5 2020 235     13 Afghanistan      AF
## 8 03/05/2020      3      5 2020 134      4 Afghanistan      AF
## 9 02/05/2020      2      5 2020 164      4 Afghanistan      AF
## 10 01/05/2020     1      5 2020 222      4 Afghanistan      AF
## # i 16,037 more rows
## # i 6 more variables: countryterritoryCode <chr>, popData2018 <dbl>,
## #   continentExp <chr>, date <date>, cases_rates <dbl>, dead_rates <dbl>
```

Based on Figure 1, it can be seen that Switzerland had the highest COVID cases rate among the six countries observed. In contrast, Greece's COVID cases rate was the lowest and also the most relatively stable compared to the other countries. This is a reference Box and Cox (1964)

References

Box, GEP and DR Cox (1964). An analysis of transformations. *Journal of the Royal Statistical Society. Series B* **26**(2), 211–252.