# Exploratory Data Analysis: Deaths Data

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#### Data

There are six metrics relating to coronavirus deaths in the governments coronavirus developers api, which have been listed below.

- newDeaths28DaysByPublishDate: Deaths within 28 days of positive test
- cumDeaths28DaysByPublishDate: Cumulative deaths within 28 days of positive test
- cumDeaths28DaysByPublishDateRate: Rate of cumulative deaths within 28 days of positive test per 100k resident population
- newDeaths28DaysByDeathDate: Deaths within 28 days of positive test by death date
- cumDeaths28DaysByDeathDate: Cumulative deaths within 28 days of positive test by death date
- cumDeaths28DaysByDeathDateRate: Rate of cumulative deaths within 28 days of positive test by death date per 100k resident population

Death data can be presented by when death occurred (date of death) or when the death was reported (date reported).

- Deaths by date of death each death is assigned to the date that the person died irrespective of how long it took for the death to be reported. Previously reported data are therefore continually updated
- Deaths by date reported each death is assigned to the date when it was first included in the published totals. The specific 24 hour periods reported against each date vary by nation and are defined below

The death data by date of death is available for the area types: nation and English regions. The death data by publish date is only available for the nation area type. Therefore we will only use the death by date data.

Deaths are allocated to the deceased's usual area of residence.

Nation or region	Name	Date of first recorded death	Number of deaths recorded on this day
Nation	England	2020-03-02	1
Region	East of England	2020-03-02	1
Region	East Midlands	2020-03-03	1
Region	South East	2020-03-03	1
Region	North West	2020-03-08	1
Region	West Midlands	2020-03-08	1
Region	London	2020-03-09	2
Region	South West	2020-03-09	1
Region	Yorkshire and The	2020-03-12	1
	Humber		
Nation	Scotland	2020-03-12	1

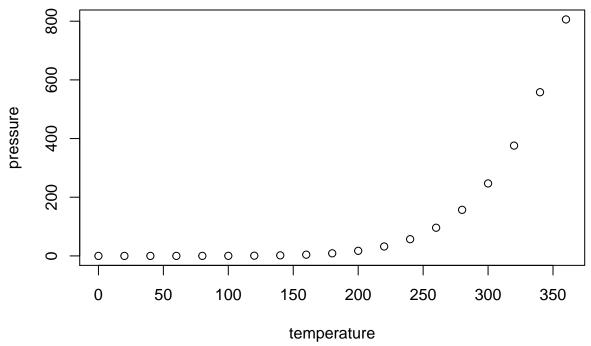
Nation or region	Name	Date of first recorded death	Number of deaths recorded on this day
Region	North East	2020-03-15	1
Nation	Wales	2020-03-16	3
Nation	Northern Ireland	2020-03-18	1

### summary(cars)

```
##
        speed
                         dist
##
    Min.
           : 4.0
                               2.00
                    Min.
                            :
##
    1st Qu.:12.0
                    1st Qu.: 26.00
##
    Median:15.0
                    Median : 36.00
##
    Mean
            :15.4
                    Mean
                            : 42.98
##
    3rd Qu.:19.0
                    3rd Qu.: 56.00
##
    Max.
            :25.0
                    Max.
                            :120.00
```

# **Including Plots**

You can also embed plots, for example:



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