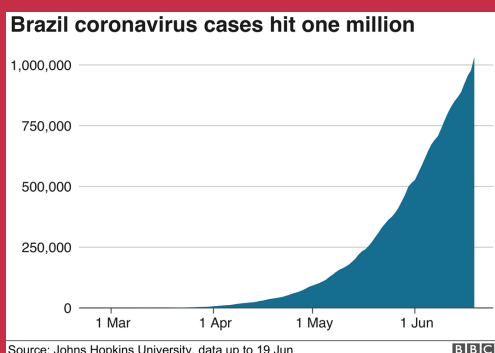


BASIC VERSUS ADVANCED

DATA VISUALISATION DEPENDING ON RECEIVER

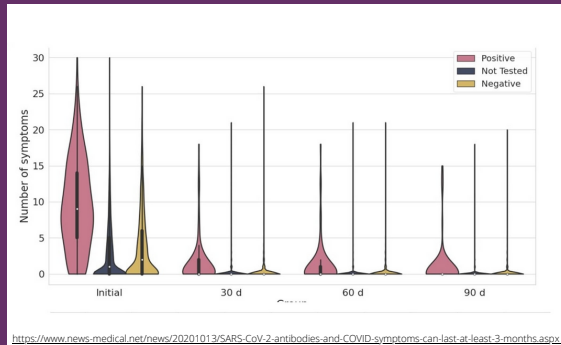
DISTRIBUTION

HISTOGRAM



A histogram is an accurate graphical representation of the distribution of a numeric variable. Histogram allows us to compare the distribution of a few variables. However, don't compare more than 3 or 4, it would make the figure cluttered and unreadable.

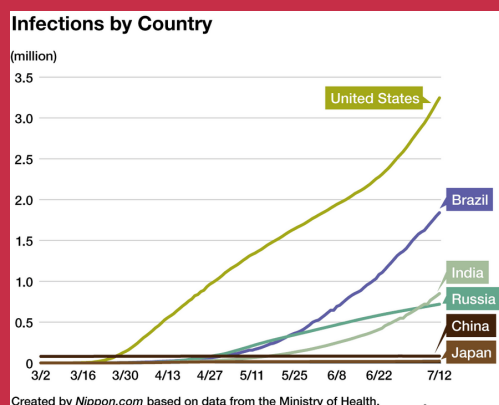
VIOLIN



Violin plot is a powerful data visualization technique since it allows to compare both the ranking of several groups and their distribution. This kind of plot is particularly adapted when the amount of data is huge and showing individual observations gets impossible.

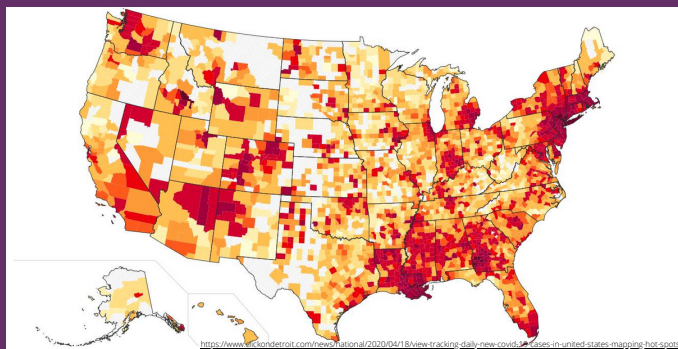
CORRELATION

LINE CHART



The plot displays the evolution of one or several numeric variables. It is often used to visualize a trend in data over intervals of time – a time series – thus the line is often drawn chronologically.

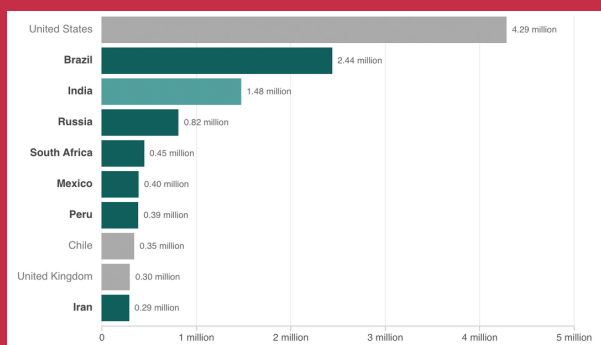
HEATMAP



A heatmap is a graphical representation of data where areas of plot are coloured in relation to a numeric variable. This kind of plot is really useful to display a general view of numerical data, not to extract specific data points.

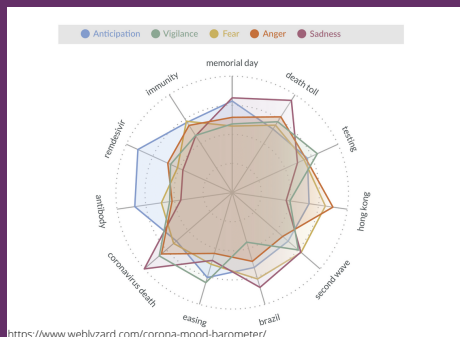
RANKING

BARPLOT



Bar plots are used to display the relationship between a numeric and a categorical variable. They are easy to understand, widely used, and can show changes over time. That gives them an advantage over other graphs that are difficult to read or can only show a single data set.

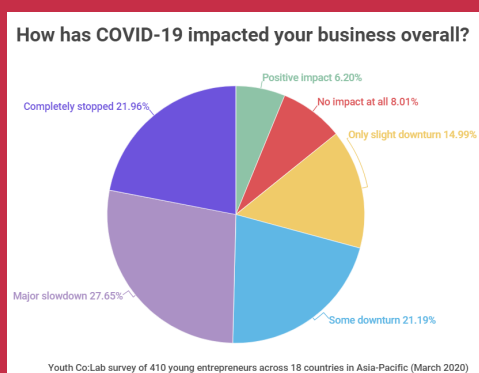
RADAR



Radar charts are useful for seeing which variables have similar values or if there are any outliers amongst each variable. They are also useful for seeing which variables are scoring high or low within a dataset, making them ideal for displaying performance. However they have several downsides and should be used with care.

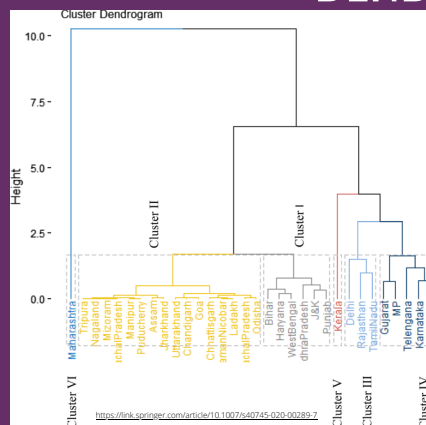
PART OF A WHOLE

PIE CHART



Pie charts are simple visualizations consisting of a circle divided into wedges. Each wedge represents a portion of the data. The larger the wedge, the bigger the measure. These types of charts are useful for showing proportions. They are good for displaying data for around 6 categories or fewer.

DENDROGRAM



A dendrogram is a diagram that shows the hierarchical relationship between objects. The main use of this kind of visualization is to work out the best way to allocate objects to clusters.