



MÓDULO 2

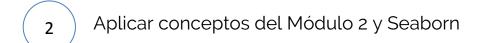
Visualización

Agosto de 2017



OBJETIVOS DE LA CLASE

Recursos visuales para distintos tipos de datos

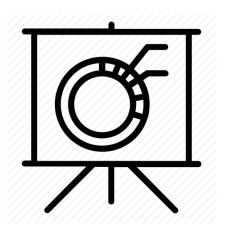




PRÁCTICA_GUIADA_1_Visualizacion_Seaborn.ipynb (Reemplazo de valores, pivot_table y dummies)

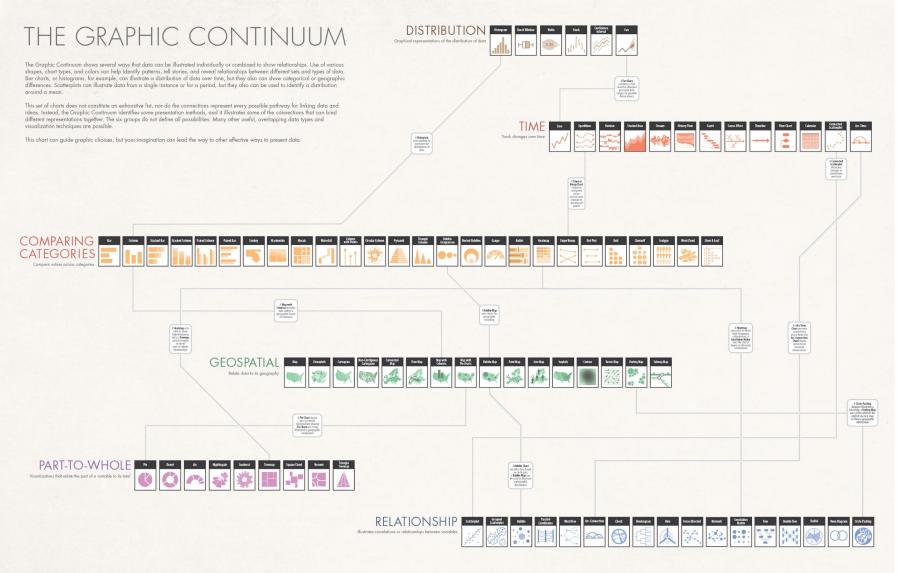


PRACTICA_GUIADA_2_Visualizacion_Seaborn.ipynb



Recursos visuales











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Proposition and service

Part-to-whole

Magnitude







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Designing with data

There are so many ways to visualise data - how do we know which one to pick? Use the categories across the top to decide which data relationship is most important in your story, then look at the different types of chart within the category to form some initial ideas about what might work best. This list is not meant to be exhaustive, nor a wizard, but is a useful starting point for making informative and meaningful data visualisations.





Correlation

Show the relationship between two or more variables. Be mindful that, unless you tell them otherwise, many readers will assume the relationships you show them to be causal (i.e. one causes the other)

Examples of use

Inflation & unemployment, income & life expectancy

Chart types

scatterplot



show the between two variables, each of which has its own line-column



A good way of showing the between an amount (columns) and a rate (line)

connected



Usually used to show how the between 2 variables has changed over

Bubble



Like a scatterplot, but adds additional detail by sizing the circles according to a third variable

XY-heatmap



A good way of showing the patterns between 2 categories of data. less good at showing fine differences in



Distribution

Show values in a dataset and how often they occur. The shape (or 'skew') of a distribution can be a memorable way of highlighting the lack of uniformity or equality in the data

Examples of use

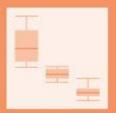
Income distribution, population (age/sex) distribution

Chart types

histogram



The standard way to show a statistical the gaps between columns small to of the data.



showing the median of the data



Similar to a box plot that cannot be summarised with

populationpyramis



A standard way for and sex breakdown of a population

dot-plot-strip



individual values in a a problem when too

dot-plot



(min/max) of data



Change v Time

Give emphasis to changing trends. These can be short (intra-day) movements or extended series traversing decades or centuries: Choosing the correct time period is important to provide suitable context for the reader

Examples of use

Share price movements, economic time series

Chart types

line



The standard way to show a changing time series. If data are irregular, consider markers to represent data points columntimeline



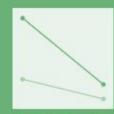
Columns work well for showing change over time - but usually best with only one series of data at a time columnline-timeline



A good way of showing the relationship over time between an amount (columns) and a rate (line) stock-price



Usually focused on day-to-day activity, these charts show opening/closing and hi/low points of each day slope



Good for showing changing data as long as the data can be simplified into 2 or 3 points without missing a key part of story

агеа



Use with care.
These are good at showing changes to total, but seeing change in components can be very difficult.



Part to whole

Show how a single entity can be broken down into its component elements. If the reader's interest is solely in the size of the components, consider a magnitude-type chart instead

Examples of use

Fiscal budgets, company structures, national election results

Chart types

columnstacked



A simple way of showing part-to-whole relationships but can be difficult to read with more than a few components.

bar-stackedproportional



A good way of showing the size and proportion of data at the same time, as long as the data are not too complicated. pie



A common way of showing part-to-whole data - but be aware that it's difficult to accurately compare the size of the segments.

doughnut



Similar to a pie chart - but the centre can be a good way of making space to include more information about the data (eg. total) treemap



Use for hierarchical part-to-whole relationships; can be difficult to read when there are many small segments

Voronoi



A way of turning points into areas any point within the area is closer to the central point than any other point

Referencias



Bibliografía adicional



