from Data to Viz

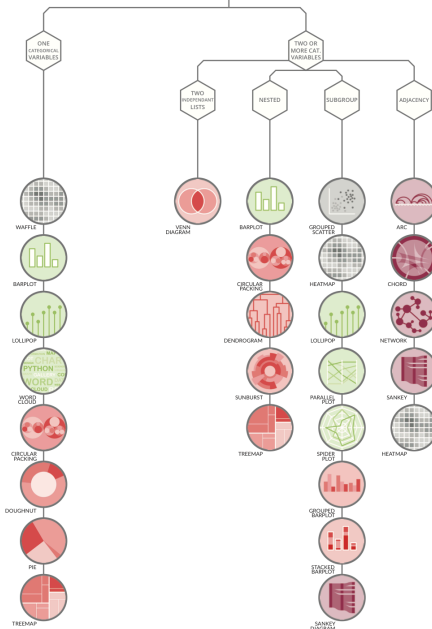**'From Data to Viz'** is a classification of chart types based on input data format. It will help you find the perfect chart in three simple steps :

1 Identify what type of data you have.

2 Go to the corresponding decision tree and follow it down to a set of possible charts.

3 Choose the chart from the set that will suit your data and your needs best.
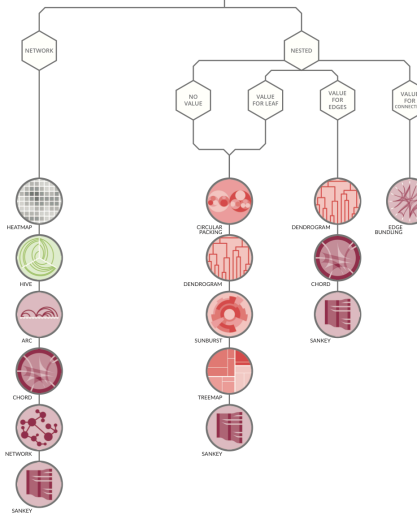
Dataviz is a world with endless possibilities and this project does not claim to be exhaustive. However it should provide you with a good starting point. For an interactive version and much more, visit:
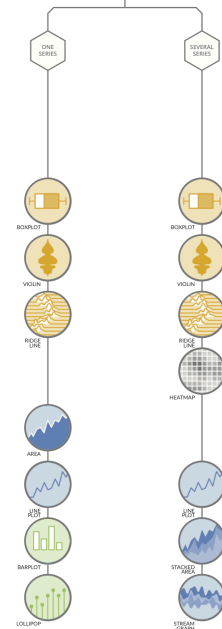
data-to-viz.com

CATEGORIC

ONE CATEGORICAL VARIABLES
- WAFFLE
- BARPLOT
- LOLLIPOP
- WORD CLOUD
- CIRCULAR PACKING
- DOUGHNUT
- PIE
- TREEMAP

TWO OR MORE CAT. VARIABLES

TWO INDEPENDANT LISTS
- VENN DIAGRAM

NESTED
- BARPLOT
- CIRCULAR PACKING
- DENDROGRAM
- SUNBURST
- TREEMAP

SUBGROUP
- GROUPED SCATTER
- HEATMAP
- LOLLIPOP
- PARALLEL PLOT
- SPIDER PLOT
- GROUPED BARPLOT
- STACKED BARPLOT
- SANKEY DIAGRAM

ADJACENCY
- ARC
- CHORD
- NETWORK
- SANKEY
- HEATMAP

RELATIONAL

NETWORK
- HEATMAP
- HIVE
- ARC
- CHORD
- NETWORK
- SANKEY

NESTED

NO VALUE
- CIRCULAR PACKING
- DENDROGRAM
- SUNBURST
- TREEMAP
- SANKEY

VALUE FOR LEAF
- DENDROGRAM
- CHORD
- SANKEY

VALUE FOR EDGES

VALUE FOR CONNECTION
- EDGE BUNDLING

MAP
- BUBBLE MAP
- CLOROPLETH
- CONNECTED MAP
- MAP
- MAP HEXBIN

TIME SERIES

ONE SERIES
- BOXPLOT
- VIOLIN
- RIDGE LINE
- AREA
- LINE PLOT
- BARPLOT
- LOLLIPOP

SEVERAL SERIES
- BOXPLOT
- VIOLIN
- RIDGE LINE
- HEATMAP
- LINE PLOT
- STACKED AREA
- STREAM GRAPH
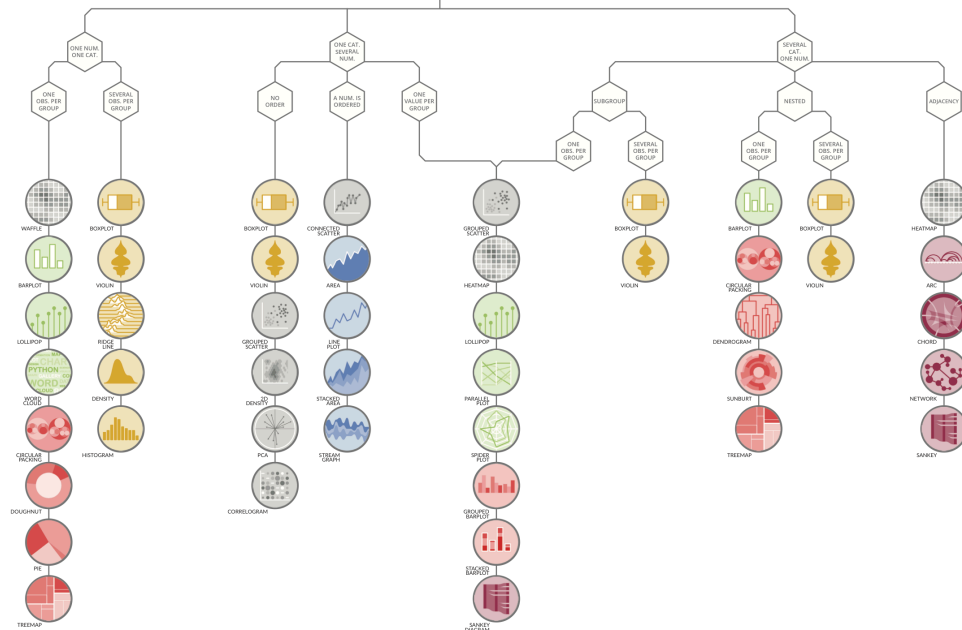
WHAT DO YOU WANT TO SHOW ?
- Distribution
- Correlation
- Ranking
- Part of a whole
- Evolution
- Maps
- Flow

CATEGORIC AND NUMERIC

ONE NUM. ONE CAT.

ONE OBS. PER GROUP
- WAFFLE
- BARPLOT
- LOLLIPOP
- WORD CLOUD
- CIRCULAR PACKING
- DOUGHNUT
- PIE
- TREEMAP

SEVERAL OBS. PER GROUP
- BOXPLOT
- VIOLIN
- RIDGE LINE
- DENSITY
- HISTOGRAM

ONE CAT. SEVERAL NUM.

NO ORDER
- BOXPLOT
- VIOLIN
- GROUPED SCATTER
- 2D DENSITY
- PCA
- CORRELOGRAM

A NUM. IS ORDERED
- CONNECTED SCATTER
- AREA
- LINE PLOT
- STACKED AREA
- STREAM GRAPH

ONE VALUE PER GROUP
- GROUPED SCATTER
- HEATMAP
- LOLLIPOP
- PARALLEL PLOT
- SPIDER PLOT
- GROUPED BARPLOT
- STACKED BARPLOT
- SANKEY DIAGRAM

SUBGROUP

ONE OBS. PER GROUP
- BOXPLOT
- VIOLIN

SEVERAL OBS. PER GROUP

SEVERAL CAT. ONE NUM.

NESTED

ONE OBS. PER GROUP
- BARPLOT
- CIRCULAR PACKING
- DENDROGRAM
- SUNBURST
- TREEMAP

SEVERAL OBS. PER GROUP
- BOXPLOT
- VIOLIN

ADJACENCY
- HEATMAP
- ARC
- CHORD
- NETWORK
- SANKEY

NUMERIC

ONE NUMERIC VARIABLE
- DENSITY
- HISTOGRAM

TWO NUMERIC VARIABLES

NOT ORDERED

FEW POINTS
- BOX PLOT
- HISTOGRAM
- SCATTER PLOT

MANY POINTS
- DENSITY
- VIOLIN
- 2D DENSITY
- MARGINAL DISTRIBUTION

ORDERED
- CONNECTED SCATTER
- AREA PLOT
- LINE PLOT

THREE NUMERIC VARIABLES

NOT ORDERED
- BOXPLOT
- VIOLIN
- BUBBLE PLOT
- 3D SCATTER OR SURFACE

ORDERED
- AREA
- LINE PLOT
- STACKED AREA
- STREAM GRAPH

SEVERAL NUMERIC

ORDERED

NOT ORDERED
- BOXPLOT
- RIDGE LINE
- VIOLIN
- CORRELOGRAM
- HEATMAP
- PCA
- DENDROGRAM