

Arc Diagram

Ajay Nandhivarman
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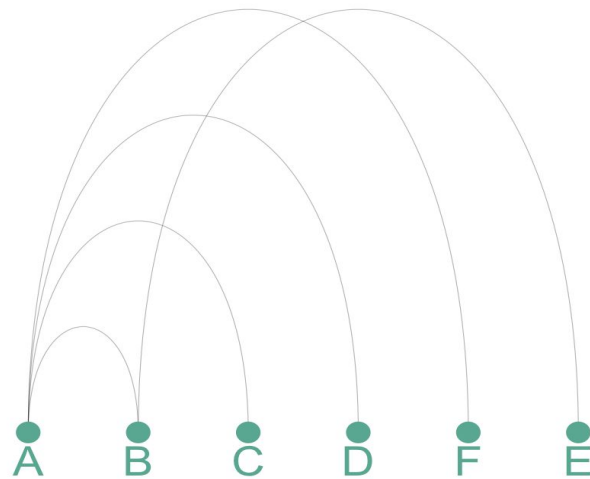
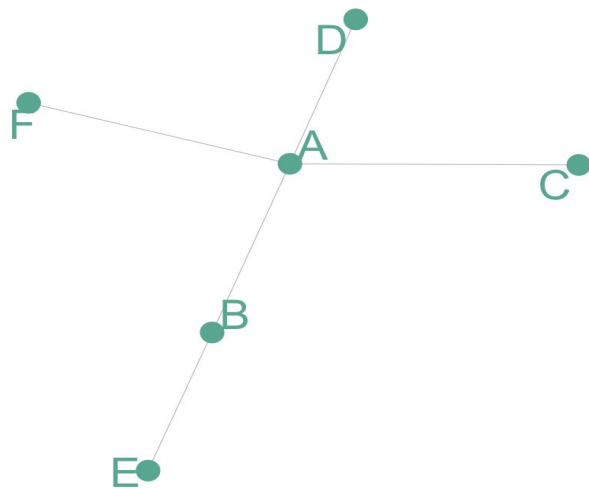


What is Arc Diagram?

- An arc diagram is a special kind of network graph.
- It is constituted by nodes that represent entities and by links that show relationships between entities.
- In arc diagrams, nodes are displayed along a single axis and links are represented with arcs.



Example





Why Arc Diagram?

Arc diagrams are not as good as 2d network charts to convey the overall node structure.

It has 2 main advantages though:

- it can highlight clusters quite well if the node order is optimized.
- it allows to display the label of each node, which is often impossible in 2d structure.

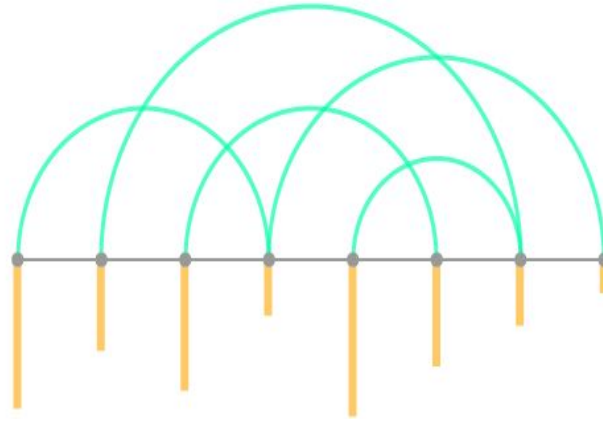


Chart Combinations: with Arc Diagrams

- We can combine Arc Diagram with another form of data visualization
- Here additional graph markers can be placed on or aligned with the connecting nodes of an Arc Diagram.
- This allows for an additional variable (or multiple variables) to be added to the diagram. This additional variable is of course connected (or relevant) with the node data.

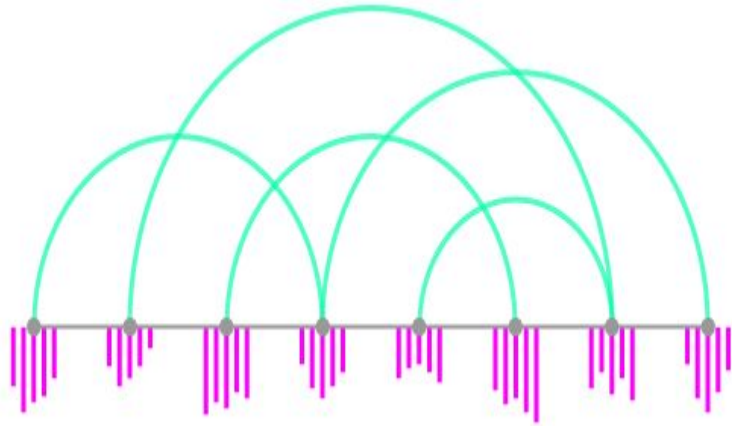


Bar Chart with Arc Diagram



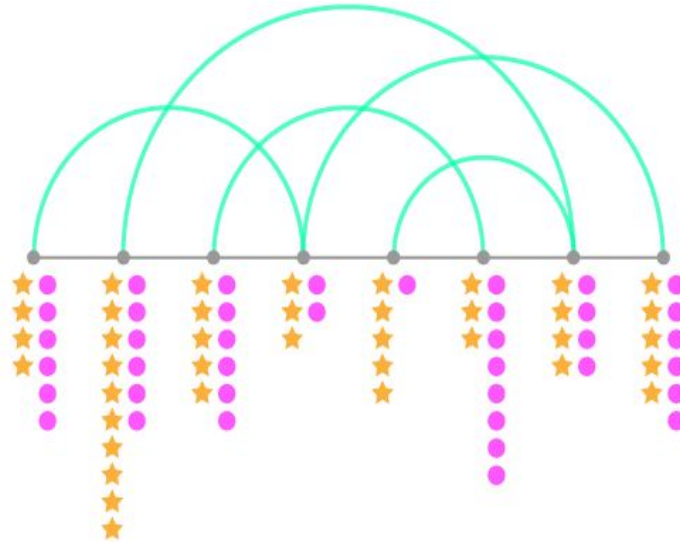


Histogram with Arc Diagram





Pictogram with Arc Diagram





Tools

- Python
- Tableau
- D3



Reference

<https://www.klipfolio.com/resources/articles/what-is-data-visualization>

<http://bl.ocks.org/mayblue9/dcc49ef6e3888f37f755177c4a248f2c>

<https://www.data-to-viz.com/graph/arc.html>



Thank You

