

TSWD Charts Presentation

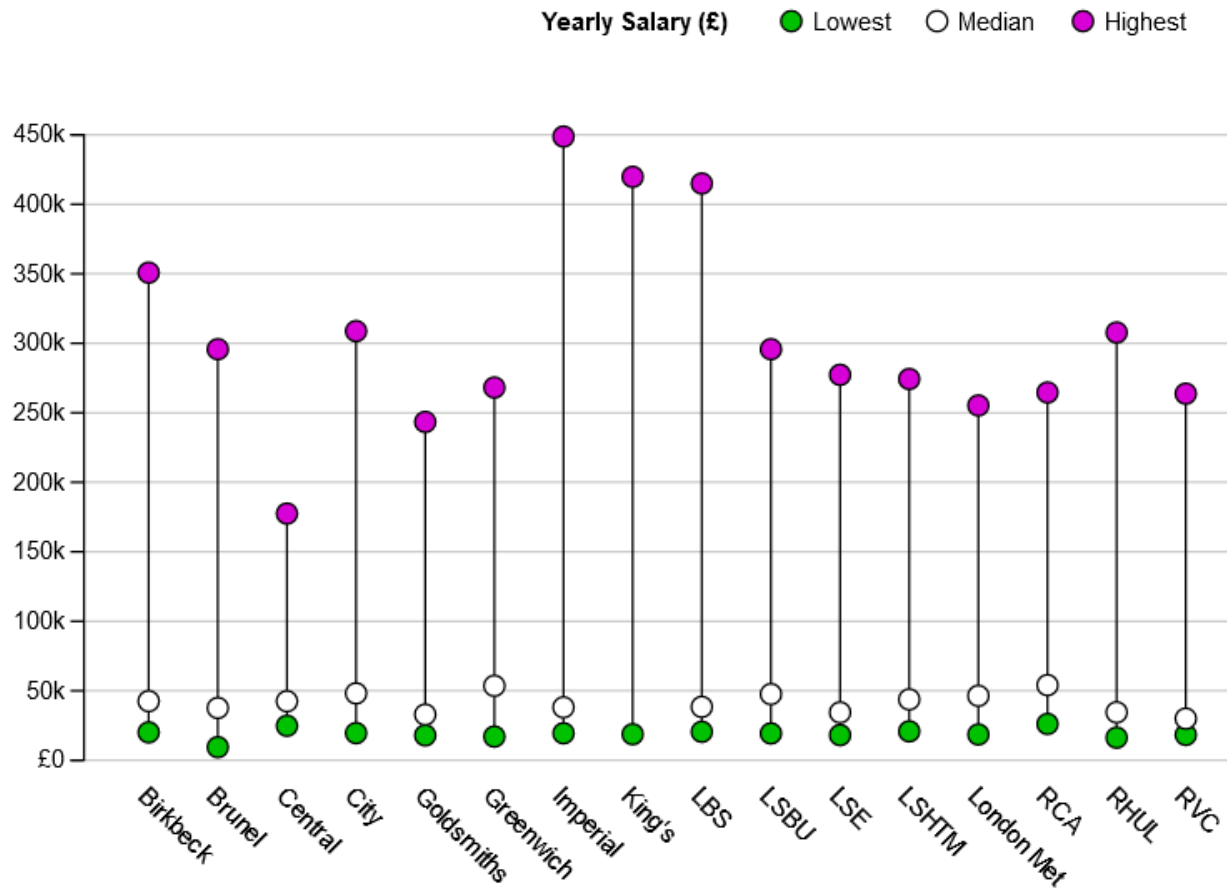
Connected Dot Plot - *Sanjna Chaturvedi*

Dendrogram - *Harichandana Magapu*

Matrix Chart - *Esha Arun*

Flow Maps - *Vanya Arikutharam*

Connected Dot Plot



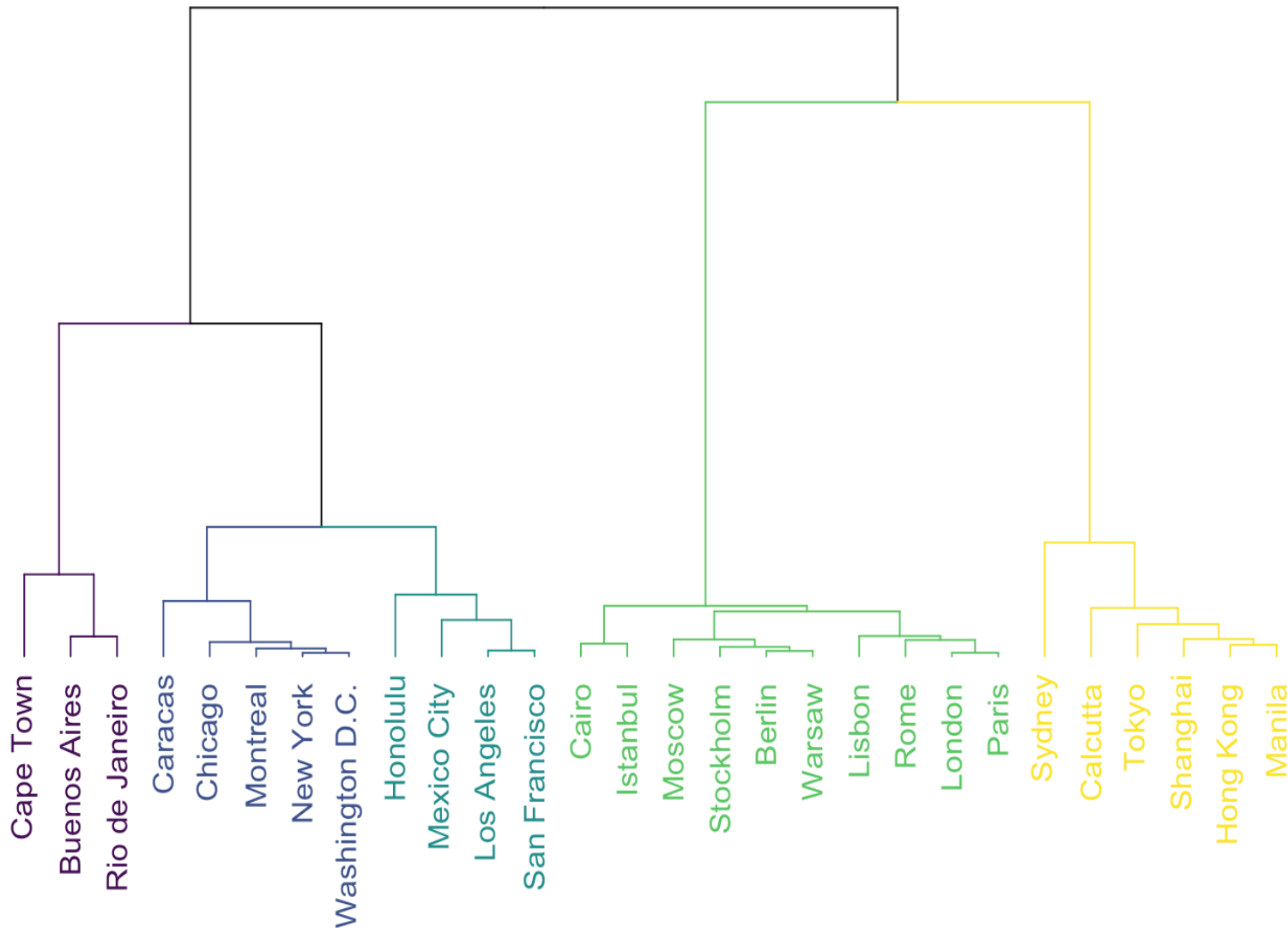
Marks:

- Dots
 - Lines
- ## Attributes:
- Color
 - Relative position on line.
 - Relative horizontal position
 - Relative vertical position

Data that can be Communicated:

- 2 or more series of data. (alternative to a clustered bar chart)
- Visualize two or three different points in time, or visualize different view points (e.g., Republicans and Democrats, here highest and lowest salary)

Dendrogram



Marks:

- Lines

Attributes:

- Label (text)
- Colour
- Length

Type of data represented:
Categorical

PROS:

- Hierarchical clustering shows all possible linkages b/w clusters - better understanding of data
- No need to preset number of clusters (unlike k-means)

CONS:

- Scalability issue

MATRIX CHART

A Matrix Chart shows relationships between two or more variables in a data set in grid format. The basic L-Shaped Matrix Diagram shows the critical relationships of two groups of items (or it can be used to show the relationship of one group to itself)

Example of Using an L-Type Matrix Chart

Example: Selection of car dealer based on various parameters.

Choice Criteria					
	Dealer 1	Dealer 2	Dealer 3	Dealer 4	Dealer 5
Availability of car models	△	⊙	○	△	△
Service department	○	○		⊙	
Delivery		△	⊙	△	△
Car accessories	△	△			⊙
Loan processing department	⊙		△	△	

Symbol	⊙	○	△
Value	9	3	1
Relationship	Strong	Medium	Weak

MARKS:

- Symbol

ATTRIBUTE:

- Value
- Relationship

PROS:

- Improved Communication
- Resource Sharing
- Employee Development

CONS:

- Reporting Confusion
- Heavy Workload
- Additional Expenses

Flow Maps

Shows the characteristics of movement or connections between phenomena across spatial regions

MARKS

- Lines

ATTRIBUTES

- Line thickness
- Connection
- Colour

DATA TYPES

- Categorical - n
- Numerical - 1

