Social

Statistics

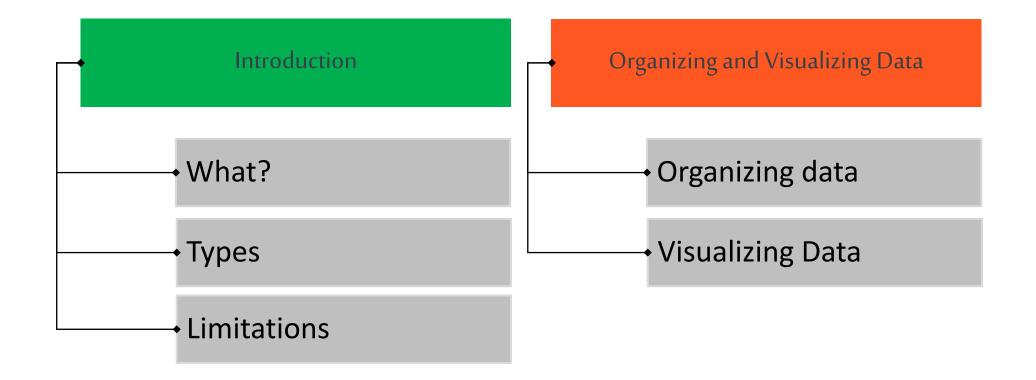
(Foundations)



School of Distance Education University of Kerala

Social

Statistics

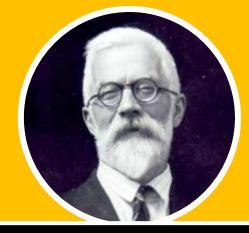


ntroduction



Al-Kindi

Arab Polymath, First known use of Statistical methods



Sir. Ronald Fischer English Statistician, Father of Modern Statistics



PC Mahalanobis Indian Statistician, Father of Indian Statistics

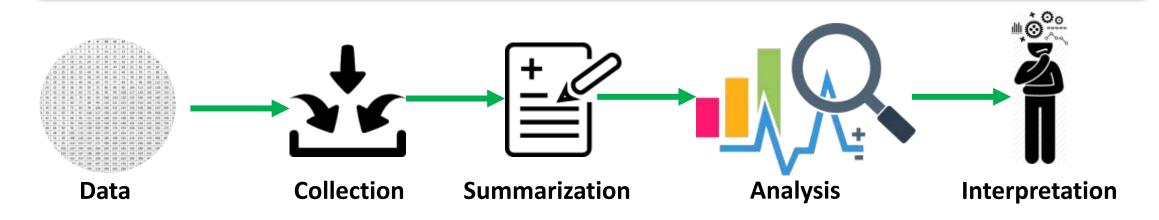
"Statistics are numerical statements of facts in any department of enquiry, placed in relation to each other"

- Sir Arthur Lyon Bowley





The science of collecting, summarizing, analyzing, and interpreting numerical statement of facts(called data).



Term coined by Hermann Conring(1660), used the term Statistik.

Latin root word "Status", meaning "group of numbers or figures"

Aggregate of facts, expressed mathematically.

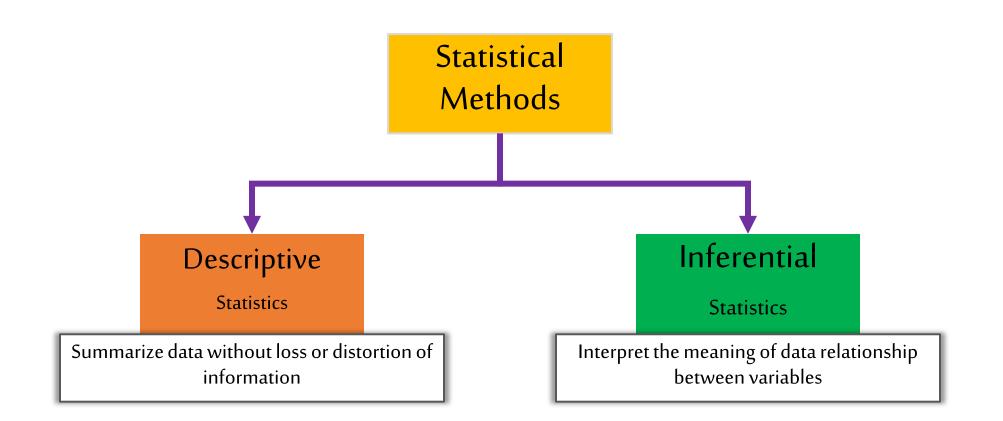
Placed in relation to each other

Used to analyze the multiplicity of causes.

In social science - used to test the tentative solution to a problem.

Helps formulate and test hypothesis, also make predictions





Limitations of Statistics?

Studies only Quantitative aspects of data and qualitative aspects.

Only gives an aggregate measure and not the real picture or entire story

Accuracy is highly dependent on data and method used

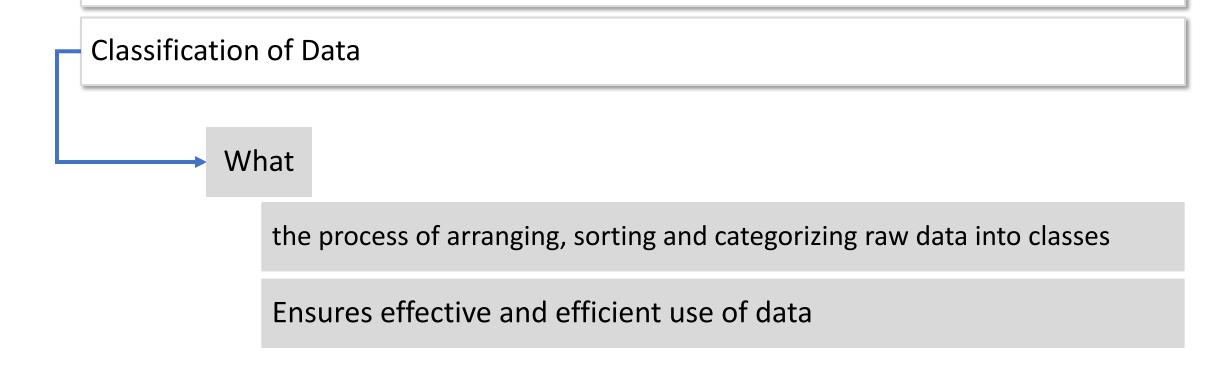
Data collection needs to be highly specific and many not be reusable.

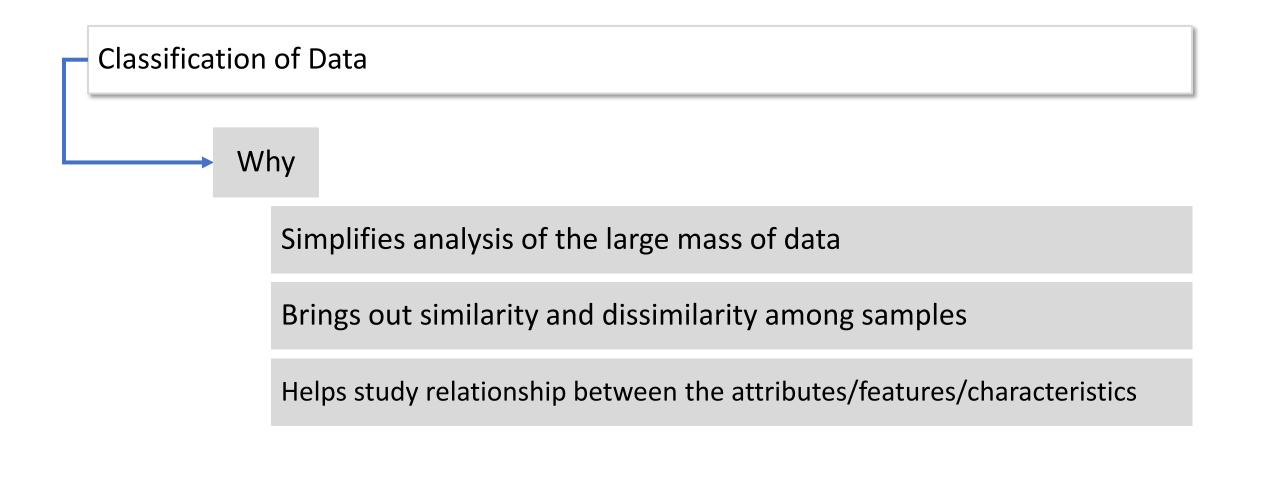


Visualizing Data

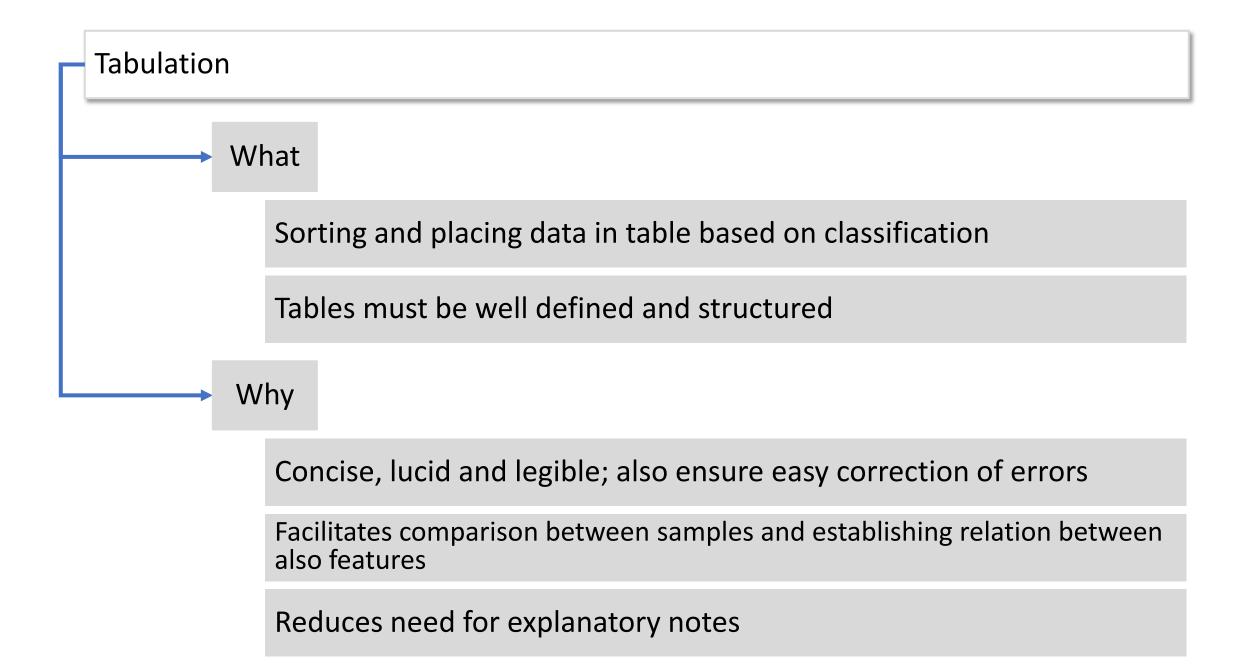


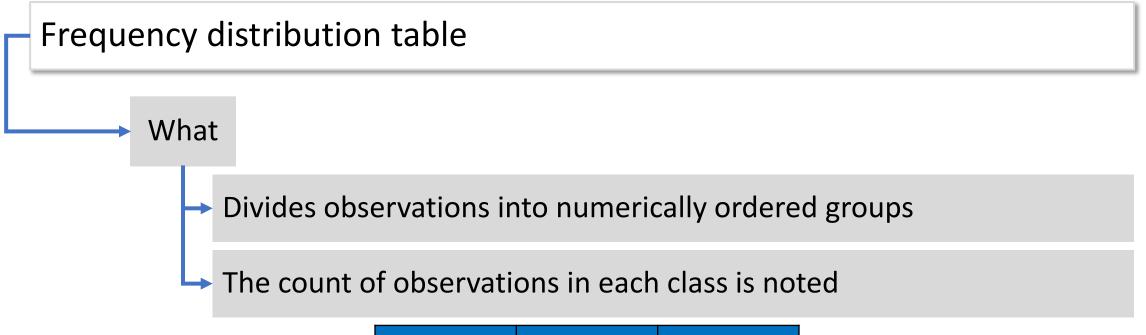
Raw Data – recorded in the same order without processing or ranking





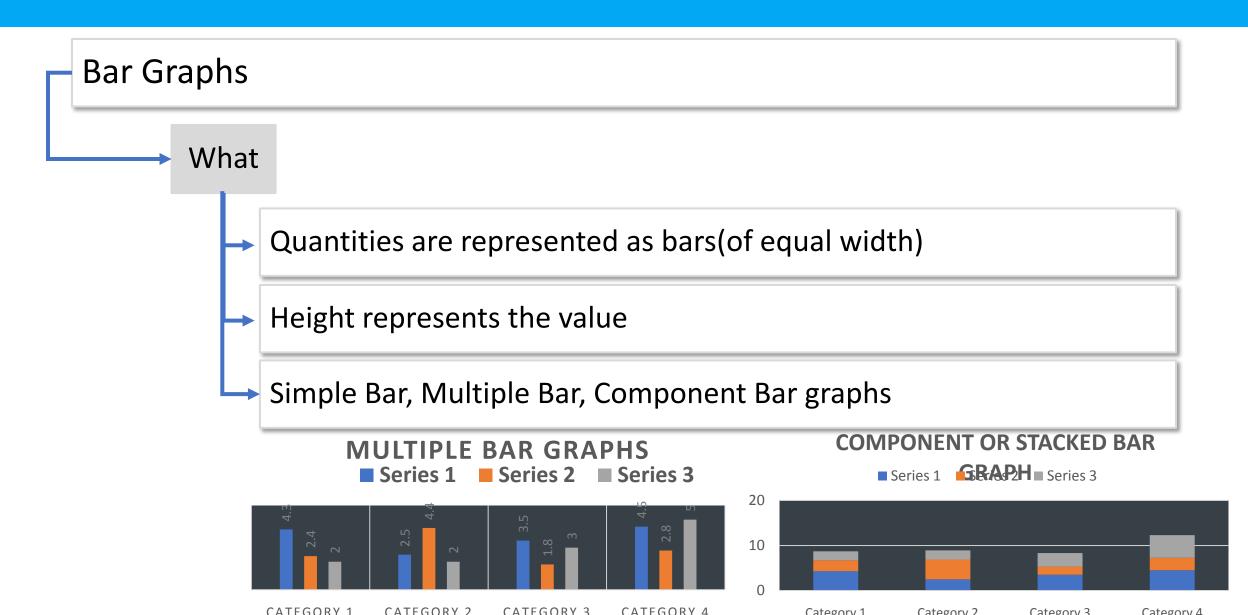
Organizing Data



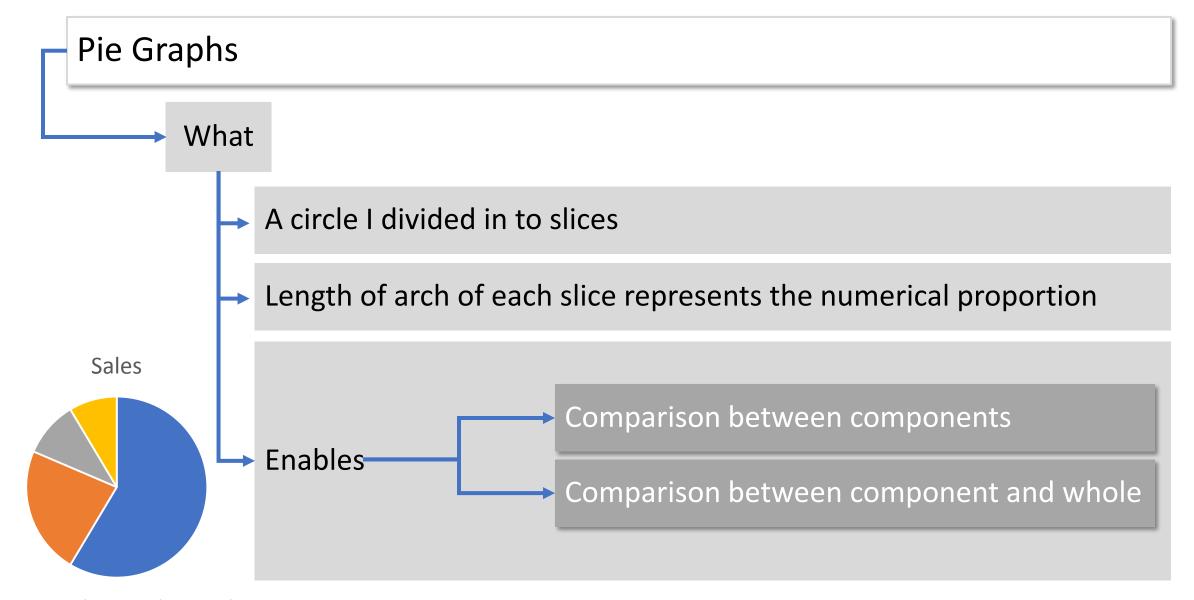


Class	Frequency	Class Mark
10-20	2	15.5
20-30	9	23.3
30-40	5	36.4
40-50	6	46.2
50-60	5	55.2
61-70	3	63.5
71-100	1	74

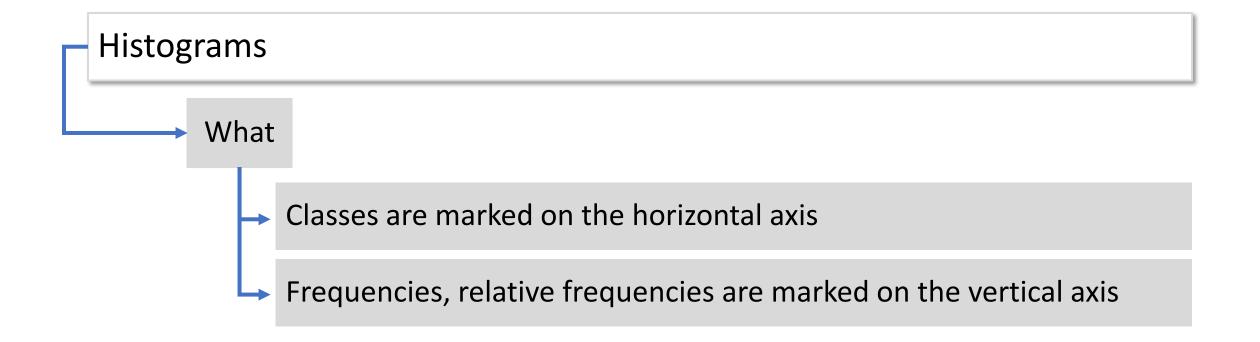


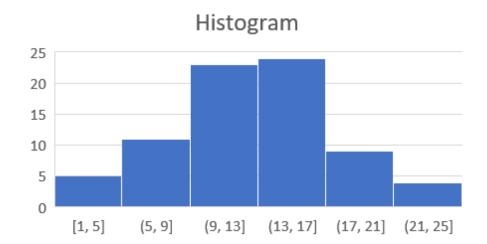


Visualizing Data

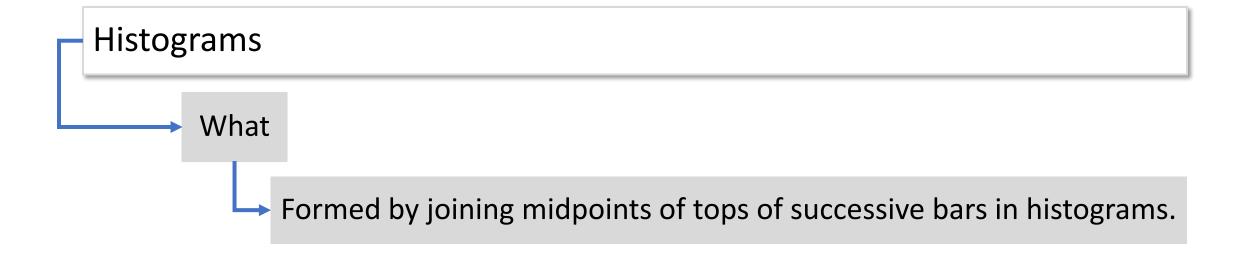


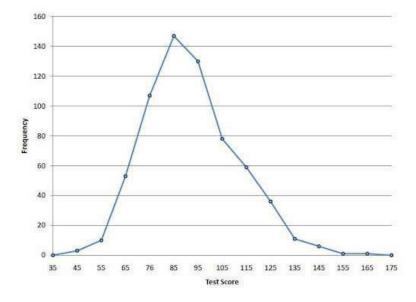
🛾 1st Qtr 🛛 🗖 2nd Qtr 🖉 3rd Qtr 📮 4th Qtr





Visualizing Data







Thank you..

