

PRINCIPLES OF DATA SCIENCE

2021 - 2022

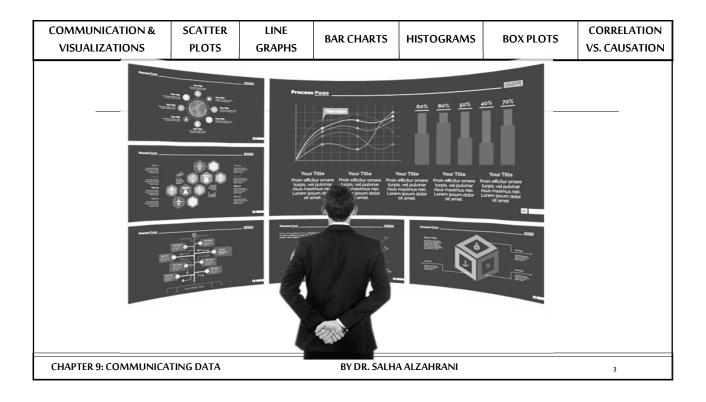


Assoc. Prof. Dr. Salha Alzahrani Department of Computer Science



CHAPTER 9: COMMUNICATING DATA

- WHY DOES COMMUNICATION MATTER?
- IDENTIFYING EFFECTIVE AND INEFFECTIVE VISUALIZATIONS
 - Scatter plots
 - Line graphs
 - Bar charts
 - Histograms
 - Box plots
- WHEN GRAPHS AND STATISTICS LIE
 - · Correlation versus causation



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COMMUNIO VISUALIZA		SCATTER PLOTS	LINE GRAPHS	BAR CHARTS	HISTOGRAMS	BOX PLOTS	CORRELATION VS. CAUSATION
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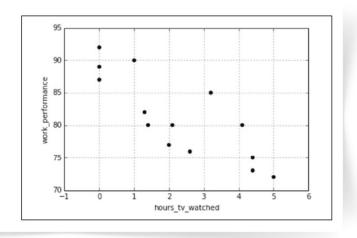
COMMUNICATION & SCATTER LINE VISUALIZATIONS PLOTS GRAPHS BAR CHARTS HISTOGRAMS BOX PLOTS CORRELATION VS. CAUSATION

BY DR. SALHA ALZAHRANI

Scatter plots

CHAPTER 9: COMMUNICATING DATA

- A scatter plot is probably one of the simplest graphs to create.
- It is made by creating two quantitative axes and using data points to represent observations.
- The main goal of a scatter plot is to highlight relationships between two variables and, if possible, reveal a correlation.

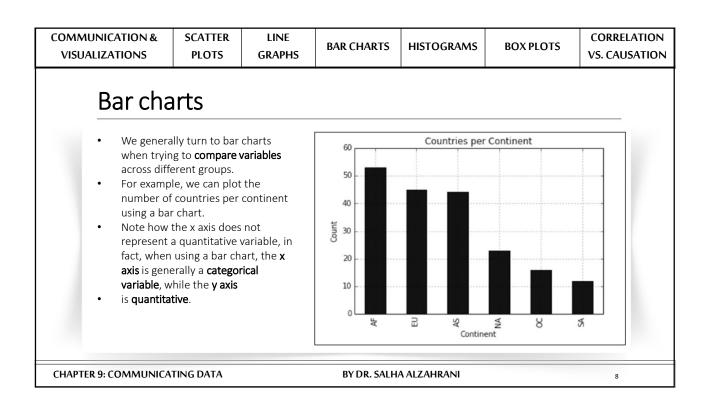


CHAPTER 9: COMMUNICATING DATA

BY DR. SALHA ALZAHRANI

Principles of Data Science - Dr. Salha Alzahrani

COMMUNICATION & VISUALIZATIONS	SCATTER PLOTS	LINE GRAPHS	BAR CHARTS	HISTOGRAMS	BOX PLOTS	CORRELATION VS. CAUSATION
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CHAPTER 9: COMMUNICA	TING DATA		BY DR. SALH/	A ALZAHRANI		7



COMMUNIC VISUALIZA		SCATTER PLOTS	LINE GRAPHS	BAR CHARTS	HISTOGRAMS	BOX PLOTS	CORRELATION VS. CAUSATION
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CHAPTER 9: C	OMMUNICA	TING DATA		BY DR. SALH	A ALZAHRANI		9

