INTERPRETING FINDINGS

ANALYZING AND UNDERSTANDING DATA FOR PROGRAM EVALUATION

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Spring 2024 SOWK 460





THE BLIND MEN AND THE ELEPHANT

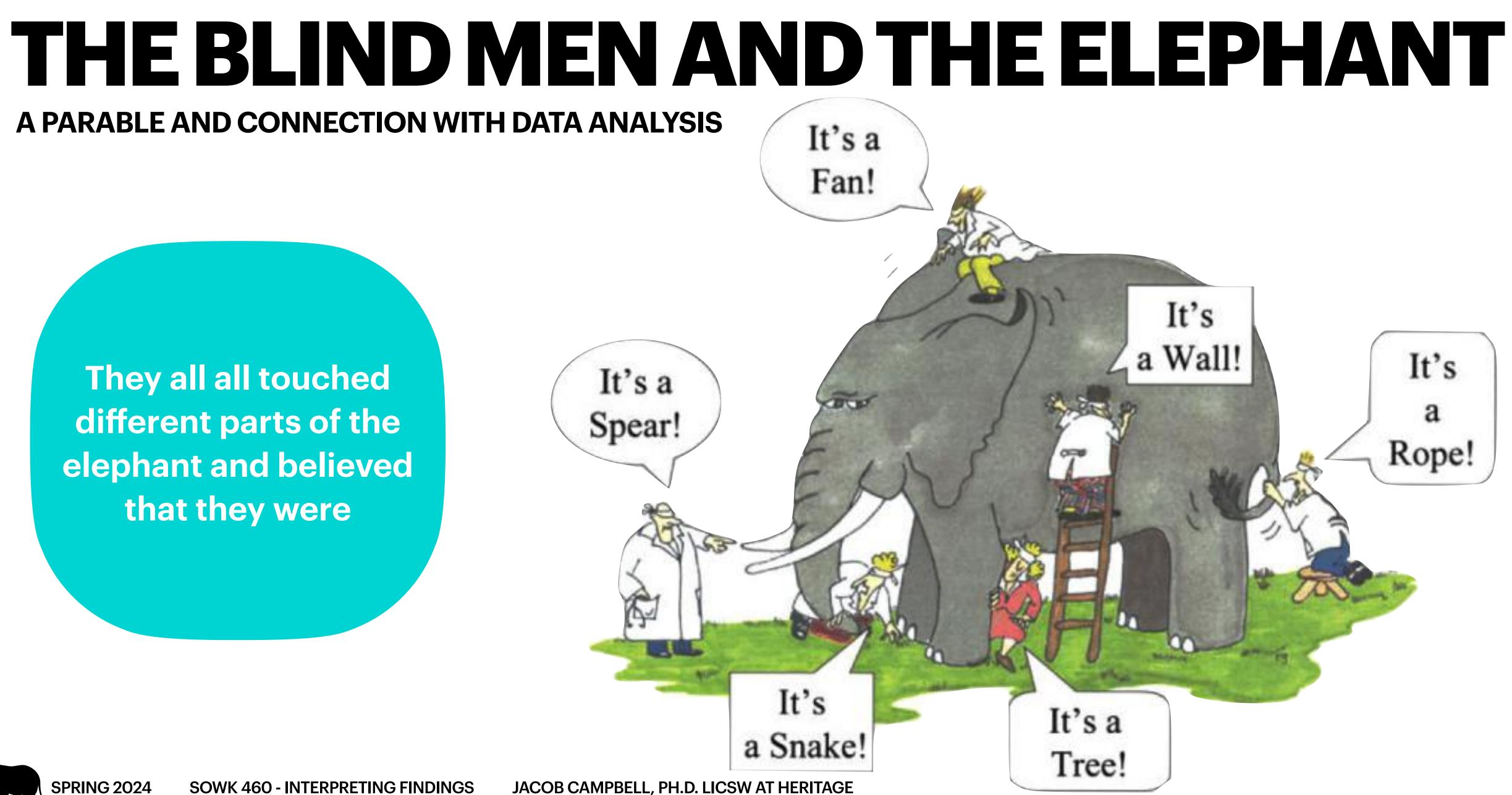
BY JOHN G. SAXE (READ BY TOM O'BEDLAM)

HTTPS://YOUTU.BE/BJVBQEFNXIW



A PARABLE AND CONNECTION WITH DATA ANALYSIS

They all all touched different parts of the elephant and believed that they were





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AGENDA

PLAN FOR CLASS TIME

What is the purpose of data analysis Scales of measurement Types of calculation Practical application of interpreting findings How we implement it for program evaluation

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PURPOSE OF DATA ANALYSIS

WHY DO WE DO THIS?

COMPARE VARIABLES

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DESCRIBE AND SUMMARIZE THE DATA

IDENTIFY RELATIONSHIPS BETWEEN VARIABLES

IDENTIFY THE DIFFERENCE BETWEEN VARIABLES

FORECAST OUTCOMES



ata can be classified into a nonnumerical or named categories, and the order in which these categories can be written or asked is arbitrary.

he data can be classified into nonnumerical or named categories an inherent order exists among the response categories. **Ordinal scales are seen in** questions that call for ratings of quality (for example, very good, good, fair, poor, very poor) and agreement (for example, strongly agree, agree, disagree, strongly disagree).

NOMINAL SCALE

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here numbers represent the possible response categories there is a natural ranking of the categories zero on the scale has meaning there is a quantifiable difference within categories and between consecutive categories.

SCALES OF MEASUREMENT ORDINAL NUMERICAL SCALE SCALE



TYPES OF CALCULATION

METHODS USED TO CALCULATE DATA

- Count (frequencies)
- Percentage
- Mean (average)
- Mode (number of times)
- Median (middle number)

- Range
- **Standard deviation** (amount of change)
- Cross tabulation (comparative)
- **Change score** (pretest / post test)
- Quantitative analysis (SPSS)





TYPESOF TRIANGULATION

(Thurmond, 2001)

Data Source Time, space, and person

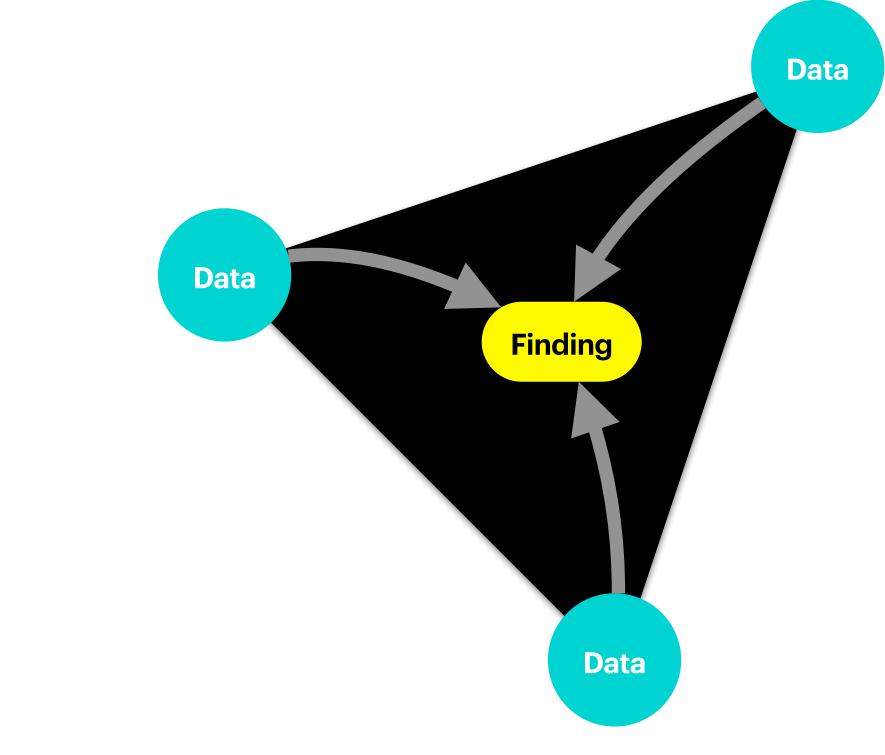
Investigator Multiple researchers

Methodological Using multi-methods in investigation

Theoretical Using multiple theories or hypotheses

Data-Analysis Two or more methods of analyzing data

INCREASING CONFIDENCE IN RESEARCH DATA, CREATING INNOVATIVE WAYS OF UNDERSTANDING A PHENOMENON, REVEALING UNIQUE FINDINGS, CHALLENGING OR INTEGRATING THEORIES, AND PROVIDING A CLEARER UNDERSTANDING OF THE PROBLEM. (P 254)

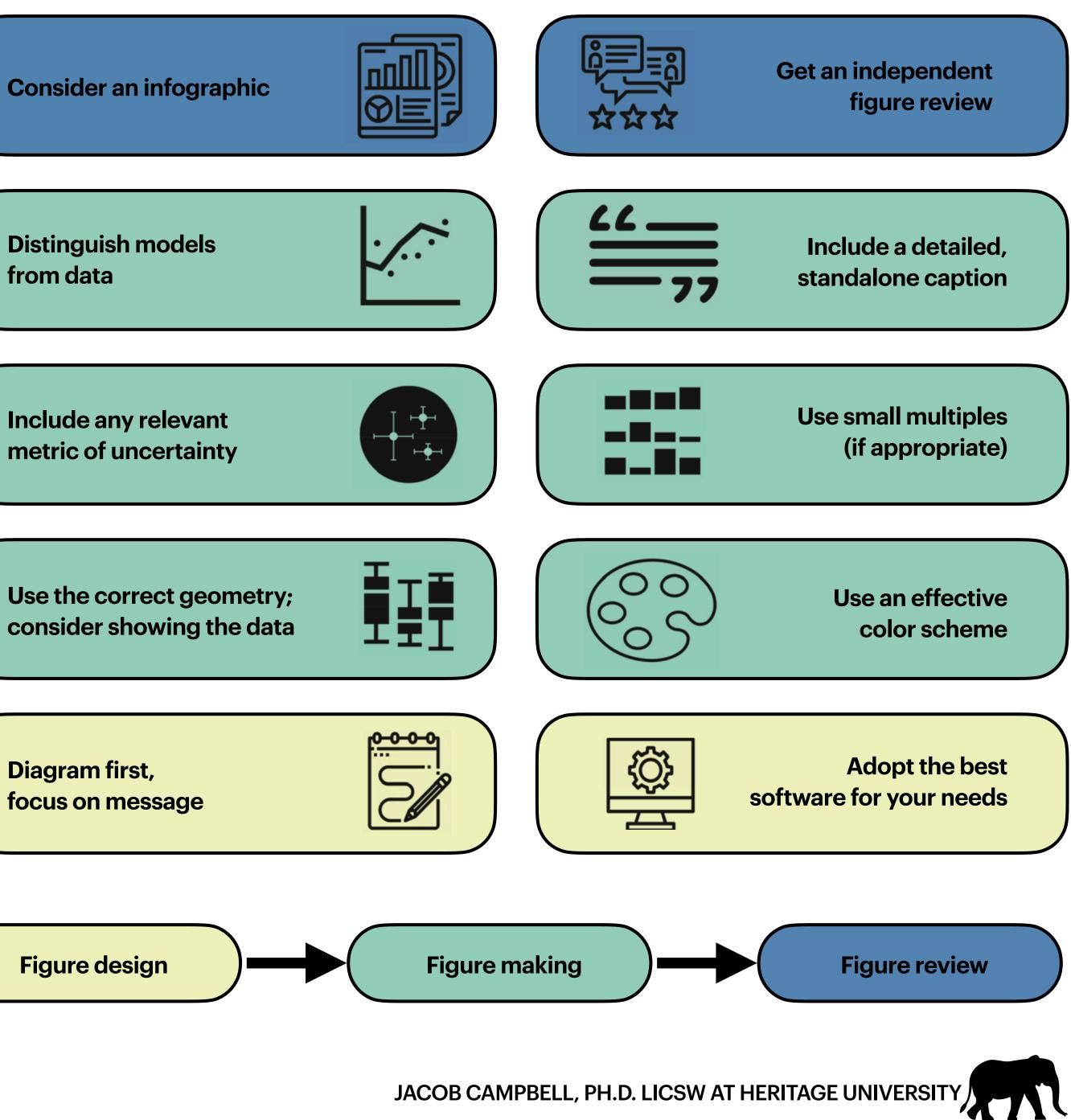




PRINCIPLES OF EFFECTIVE DATA VISUALIZATION

Midway, S. R. (2020). Principles of effective data visualization. Patterns, 1(9), 100141. https://doi.org/10.1016/j.patter.2020.100141

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Develop some questions you might want to learn about your peers. Consider questions that collect different types of data.

MAKING INTERPRETING FINDINGS PRACTICAL DEVELOPING A SURVEY FOR BASSN SENIORS



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Build a single questionnaire as a class. Have each individual take the survey.

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MAKING INTERPRETING FINDINGS PRACTICAL DEVELOPING A SURVEY FOR BASW SENIORS





As small groups, come up with how you would want to present some of the data collected to your peers. What are some of the insights you found?

MAKING INTERPRETING FINDINGS PRACTICAL DEVELOPING A SURVEY FOR BASW SENIORS



SOWHERE DO WE GO FROM HERE?

What kind of data have you collected

How are you analyzing it

Technical support

Time to work in your groups