

An Introduction to SPSS Data Entry and Analysis

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Empiricism

- Scientific evidence is observable and quantifiable
 - Not what you believe exists, but what you can measure.
 - Not just common sense or opinion, but conclusions supported by data.
- Some information is more easily quantified than others.
 - Operationalization – turning abstract concepts into measurable phenomena
 - Validity
 - Reliability
 - Some information cannot be perfectly operationalized.

What is data?

- Unit of analysis
- Samples and populations
- Variables
 - Scale of measurement
 - Quantitative: interval/ratio
 - Qualitative: nominal/ordinal
 - Independent and dependent, predictor and outcome

How do we get data?

- Research methods (primary data collection)
 - Surveys
 - Interviews
 - Field observation
- Secondary data analysis
 - Agency records
 - Prior research data (ICPSR)

What do we do with data once we have it?

- Descriptive vs. inferential statistics
- Programs for analyzing data
 - SPSS
 - R
 - SAS
 - Stata
 - Excel

Getting SPSS

- Purchasing a license
 - Direct from IBM
 - Student discount websites, like onthehub.com
- Using the Apporto portal (cuny.apporto.com)
 - CUNYFirst login
 - Getting data into and out of Apporto



The SPSS Environment












- Data editor
 - Data view
 - Variable view
- Syntax editor
- Output viewer

Variable View

- Coding qualitative variables
- Missing codes
- Cleaning/formatting variables
 - Type
 - Measure
 - Width/decimals

SPSS Variable Icons

An icon next to each variable provides information about data type and level of measurement.

	Numeric	String	Date	Time
Scale (Continuous)		n/a		
Ordinal				
Nominal				

SPSS Syntax

- Some things can only be run in SPSS using syntax
- Also good for
 - Repetitive tasks
 - Tasks in large data sets
 - A series of tasks that need to be run in order

Output viewer

- Getting output out of SPSS
 - Copy and paste
 - Exporting output
- The chart editor