1.6 Mutually exclusive and collectively exhaustive

Who you are from

1) Arkansas
2) Oklahoma
3) Missouri
4) Texas
5) Springdale AR

It is not collectively exhaustive, because people from regions other than those four areas are not in the choices.

It is not collectively exhaustive, because Arkansas includes Springdale AR, which is a part of AR.

You have ONE and ONLY ONE choice from the list

1) Arkansas
2) Oklahoma
3) Missouri
4) Texas
5) others __________

1.7 continuous and discrete variable

Continuous variables are interval/ratio variables

Discrete variables are nominal or ordinal variables, including dichotomous variables.
1.8 Cases, variables, and dataset/database/SPSS files

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<tr>
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<th>Variable 1</th>
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1.9 aggregate data and ecological fallacy

Organizations, communities, political parties, work groups, teams, bureaus, pairs, nations/states, all of above are aggregation of individuals.

Ecological fallacy refers to using aggregated data to infer to individual behaviors.

For example, one community with high percentage of minority has high level of crime, then another community with mostly white have low level of crime.

An ecological fallacy states: minorities are more likely to commit crimes than are whites.

1.10 idea and thinking

1.11 playing with data