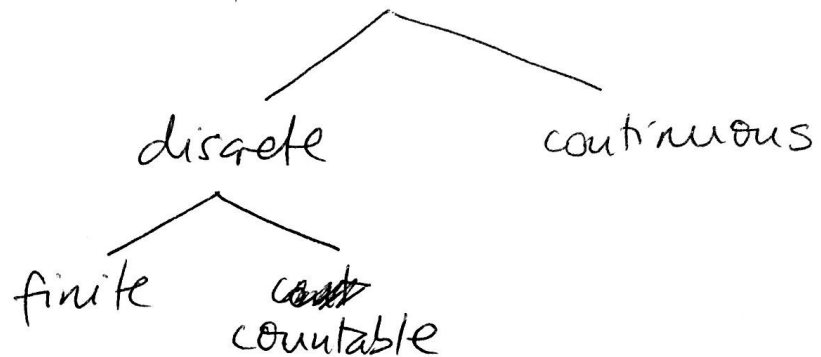


## Summary Class 2.

### Types of data

categorical

quantitative.



"level of measurement" classification.

nominal

ordinal

interval

ratio

Methods for collecting data.

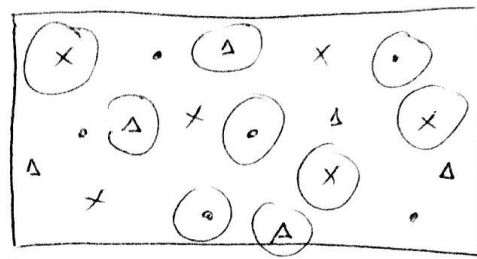
experiment

observational study

## Sampling methods

sample of size 9.

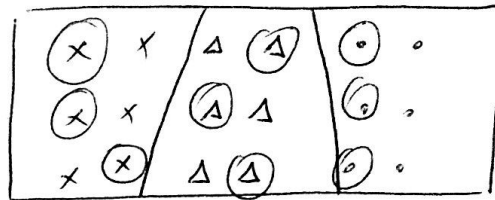
- Simple random sample:



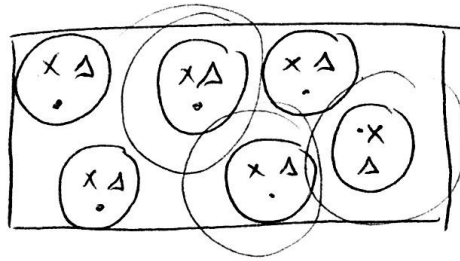
- Systematic sample: "every other"

x • Δ Δ • x x Δ • • x • Δ x x • Δ Δ  
 ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

- Stratified sample:



- Cluster sample:

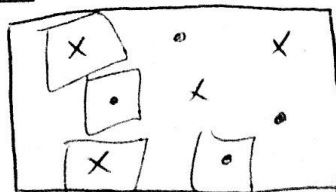


## Types of observational studies

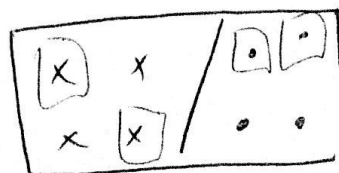
- cross-sectional
- retrospective (case-control)
- prospective (longitudinal or cohort)

## Types of experimental design

- completely randomized



- randomized block



- matched pair