Statistics 101:

"Academic discipline dealing with all aspects of odia."

Perspectives:

- art of summarizing data
- make data comprehensible

- science of uncertainty
- most information in the world is uncertain

- science of decisions
- whimate goal of statistics

- science of variation
- central tendency and speed

- Science of measurement and data collection. @ SH /Mg+

- art of forecasting

Foundations of data
Source of data
- Designed data - "artificially collected" (Surveys, studies etc)
(Surveys, studies etc)
- Organic data (process generated)
For both, data needs to be i.i.d
"independent", "identically distributed".
Question: What is the source of NHANES 2ada?
Types of data:
- Some data is not numerie!
For instance race or gender
- Just as we have data types in programming languages,
we have different types here.
- Weight - numeric, continuous
The of kids — numeric, discrete
Age group (child, adult, elder) — categorical, ordered
- Gender - categorical, unordered.
Practical Note:
Sender represented as: M/F or: 0/1 still unordered!
$\sigma : \begin{bmatrix} 1 \\ 0 \end{bmatrix} / \begin{bmatrix} 0 \\ 1 \end{bmatrix}$
"one-hot vector representation"



