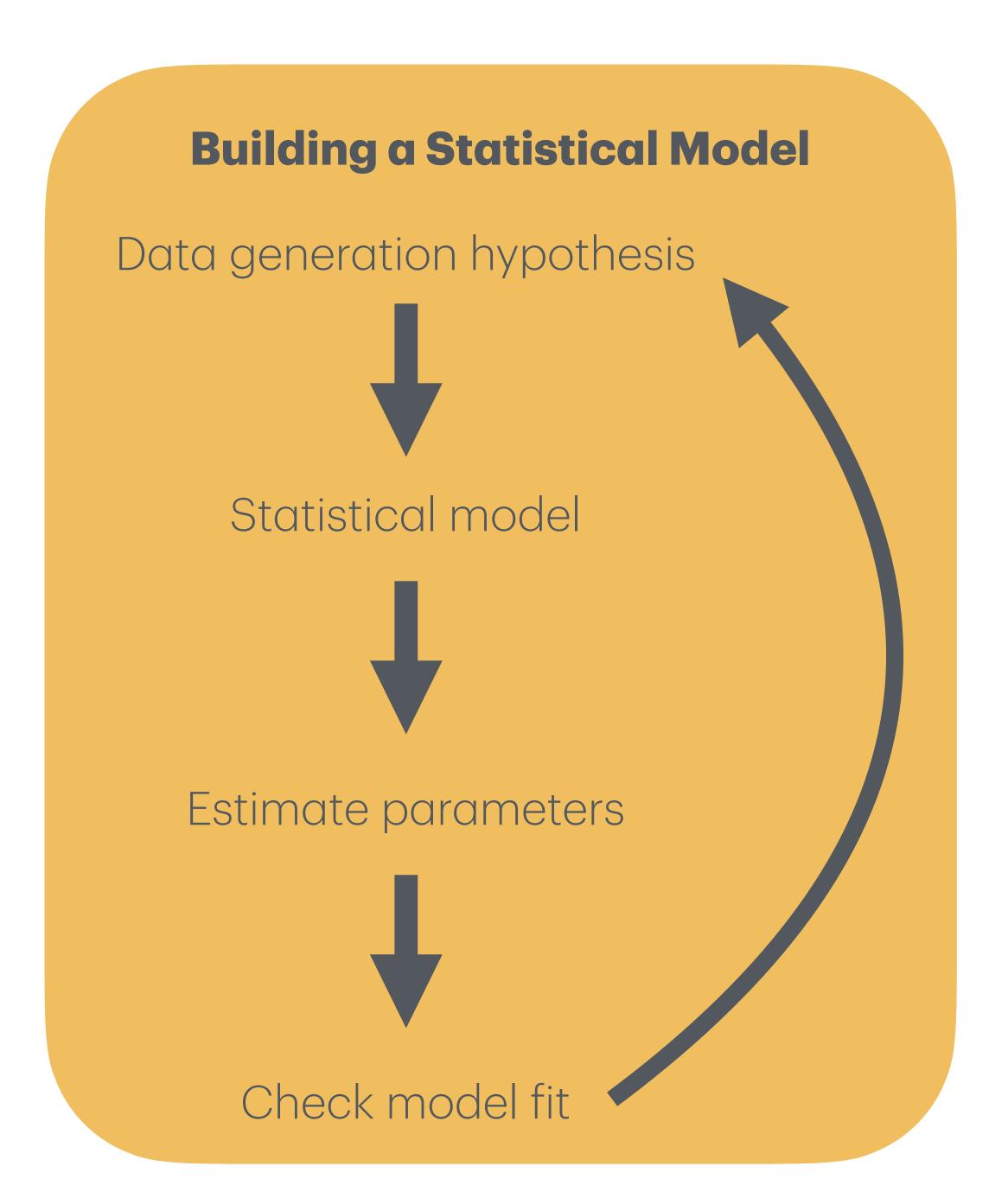
## The basic model

## Our hammer

- Our model must:
  - Define a relation between observations and parameters
  - Create a probabilistic description of the system we are studying
  - The description should capture the aspects of the data we are interested in!



## Probability definitions

Crash course

- We can express the probability of some variable as:
  - P(y): Read as the "probability of y"
- If the distribution of x depends on some parameters, we use the conditional probability:
  - P(y|x): Read as the "probability of y given x"