

CONFEINCE-BOXES

CONFIDENCE-BOXES

- Generalisation of confidence distributions
- Puts interval bounds on confidence distributions
- Reflect inferential uncertainty about parameter
- Known for many cases
 - Binomial rate and other discrete parameters
 - Normals, and many other problems
 - Non-parametric case
- Have confidence interpretation
- Can do maths with them

EXAMPLE: BINOMIAL RATE P FOR K OF N TRIALS

$$p \sim [\text{beta}(k, n - k + 1), \text{beta}(k + 1, n - k)]$$

Data

$K = 2$ Successes

$N = 10$ Trials

