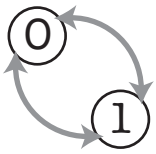
The data

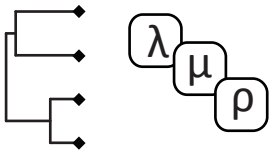
0101...
1101...
0100...

Phylogenetic characters

Fossil ages

Tripartite model components





Substitution model

Clock model

Tree and tree model

Bayes theorem

$$P(\text{model} \mid \text{data}) = \frac{P(\text{data} \mid \text{model})\,P(\text{model})}{P(\text{data})}$$

likelihood

priors

posterior

marginal likelihood of the data

Putting everything together