Likelihood-free Inference

(warning: may contain traces of likelihoods)

- Interest lies in a system that is
  - observable
  - controllable via parameters
- Do **not** assume capability to estimate the likelihood function at a parameter value
- Assume capability to simulate data given input parameters from the model
  - Often the methods are BAYESIAN

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- Not requiring analytical form for the likelihood
  - Enable the inference of more complex models
    - As long as you can sample from it, you can (try to) do it
    - Construct realistic systems via subsystem modelling