Likelihood-free Inference
(warning: may contain traces of likelihoods)

- 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

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- Application areas

- Inverse reinforcement learning for cognitive user interface models
- Brain task interleaving modelling
- Computational models of cognition
- Perturbation modelling and selection in bacterial populations
- Direct dark matter detection
- Pathogen outbreak modeling
- Sound source localisation
- Passenger flow estimation in airports
- Modelling of the genetic components that aid the transmissibility of pathogens