1. The Golem of Prague

* Causal Prediction: Knowing a cause means being able to predict the consequences of an intervention.
  + Knowing a cause means being able to construct unobserved counterfactual outcomes.
  + DAGs: Highly abstract causal models used to clarify scientific thinking and deduce appropriate statistical models.
* Drawing the Bayesian owl three modes:
  + Understand what you are doing
    - Theoretical estimand
  + Document your work, reduce error
    - Scientific (causal) model
  + Respectable scientific workflow
    - Use 1&2 to build statistical model
    - Simulate from 2 to validate 3 yields 1
    - Analyze real data