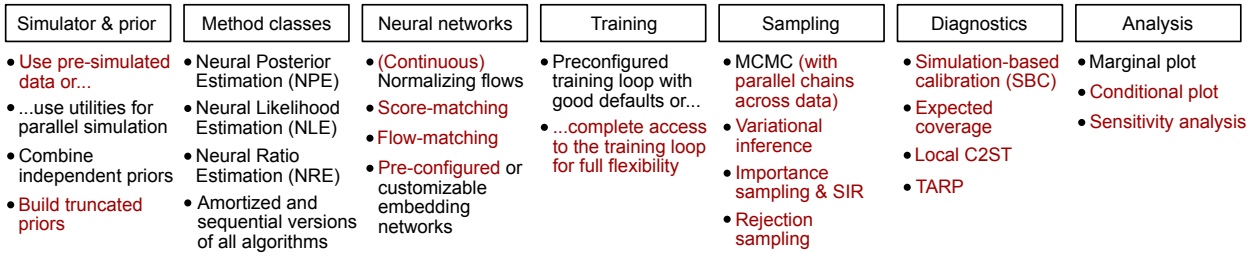
Simulator & prior
Use pre-simulated data or...
...use utilities for parallel simulation
Combine independent priors
Build truncated priors
Method classes
Neural Posterior Estimation (NPE)
Neural Likelihood Estimation (NLE)
Neural Ratio Estimation (NRE)
Amortized and sequential versions of all algorithms
Neural networks
(Continuous) Normalizing flows
Score-matching
Flow-matching
Pre-configured or customizable embedding networks
Training
Preconfigured training loop with good defaults or...
...complete access to the training loop for full flexibility
Sampling
MCMC (with parallel chains across data)
Variational inference
Importance sampling & SIR
Rejection sampling
Diagnostics
Simulation-based calibration (SBC)
Expected coverage
Local C2ST
TARP
Analysis
Marginal plot
Conditional plot
Sensitivity analysis