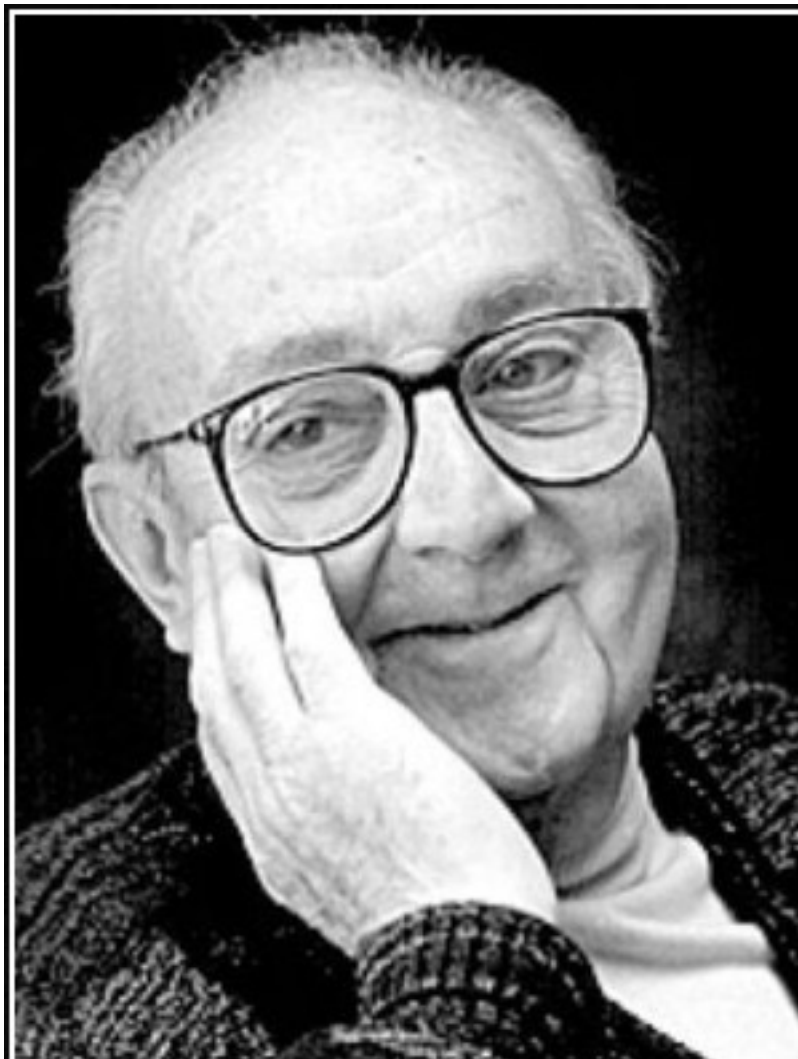


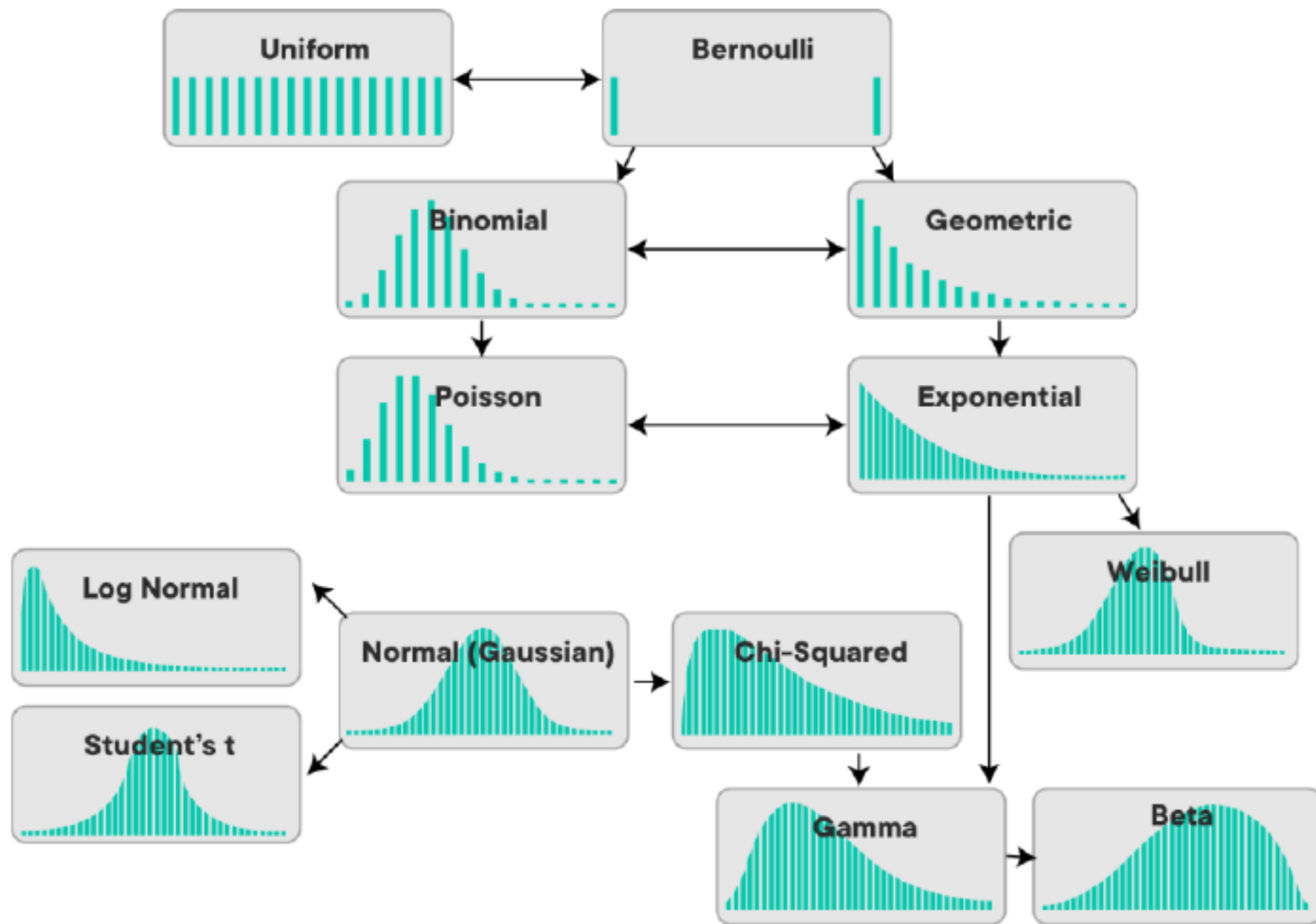
Probability distributions



All models are approximations.
Essentially, all models are wrong, but
some are useful. However, the
approximate nature of the model
must always be borne in mind.

— *George E. P. Box* —

AZ QUOTES

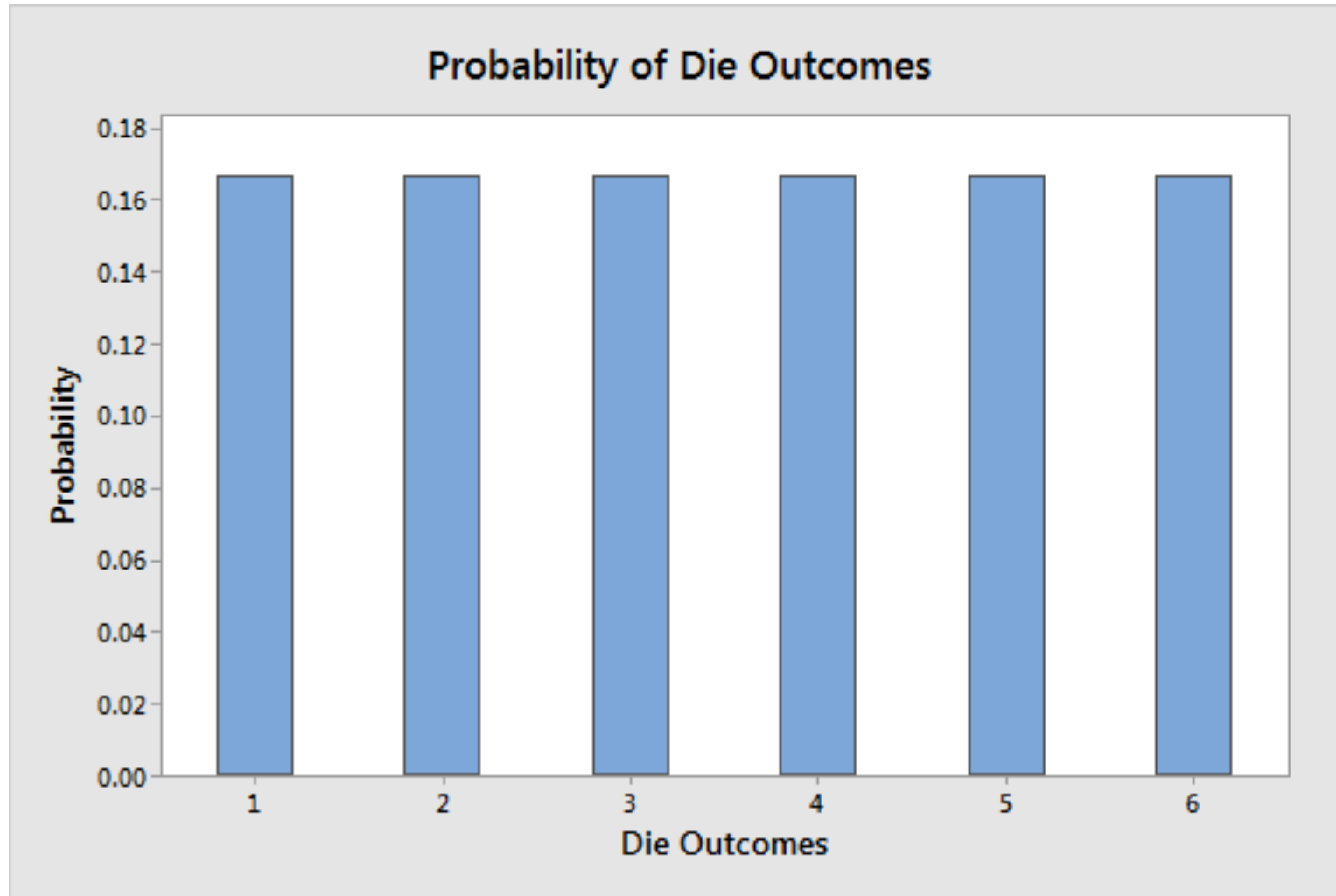


Models rely on priors, which are often defined through probability distributions

Four probability distributions frequently used for phylogenetics/molecular dating/biology in general/economics:

1. Discrete Uniform
2. Continuous Uniform
3. Normal
4. Log normal

Discrete Uniform distribution

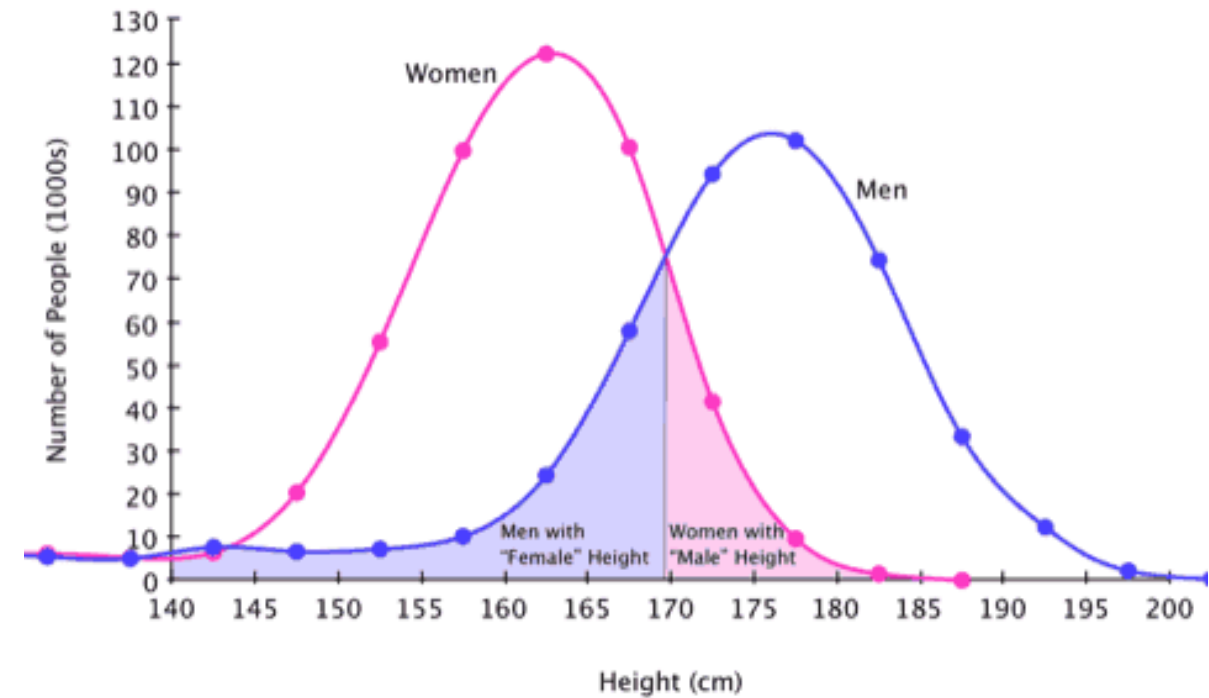
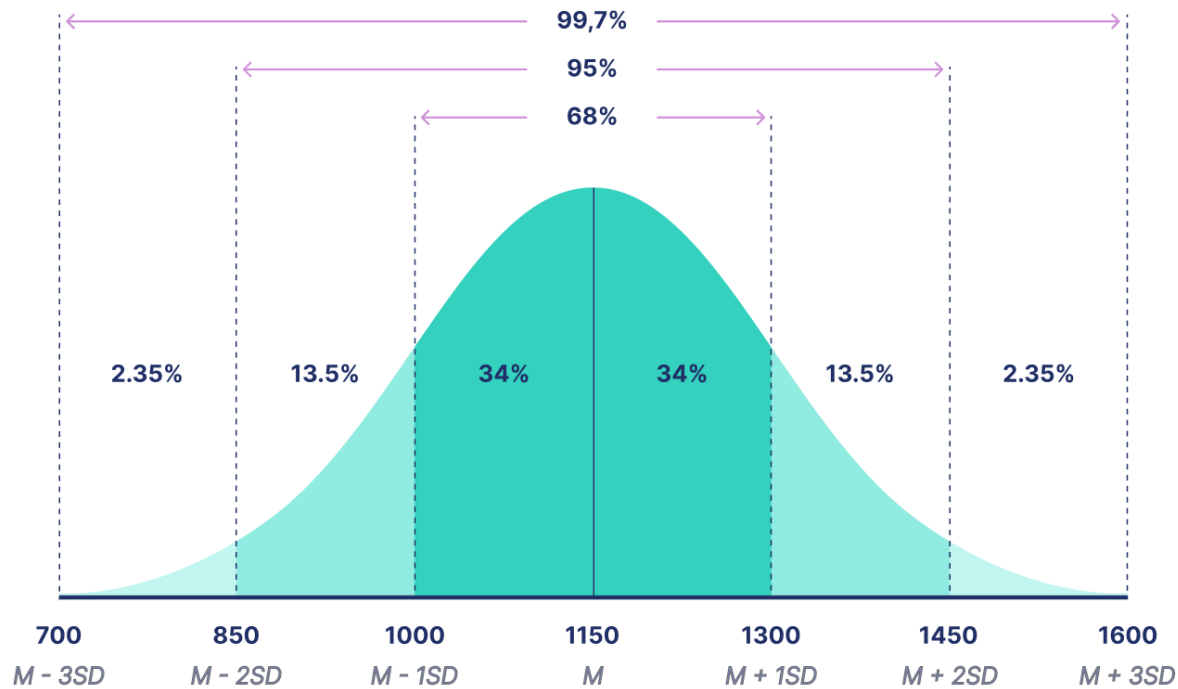


Continuous Uniform distribution

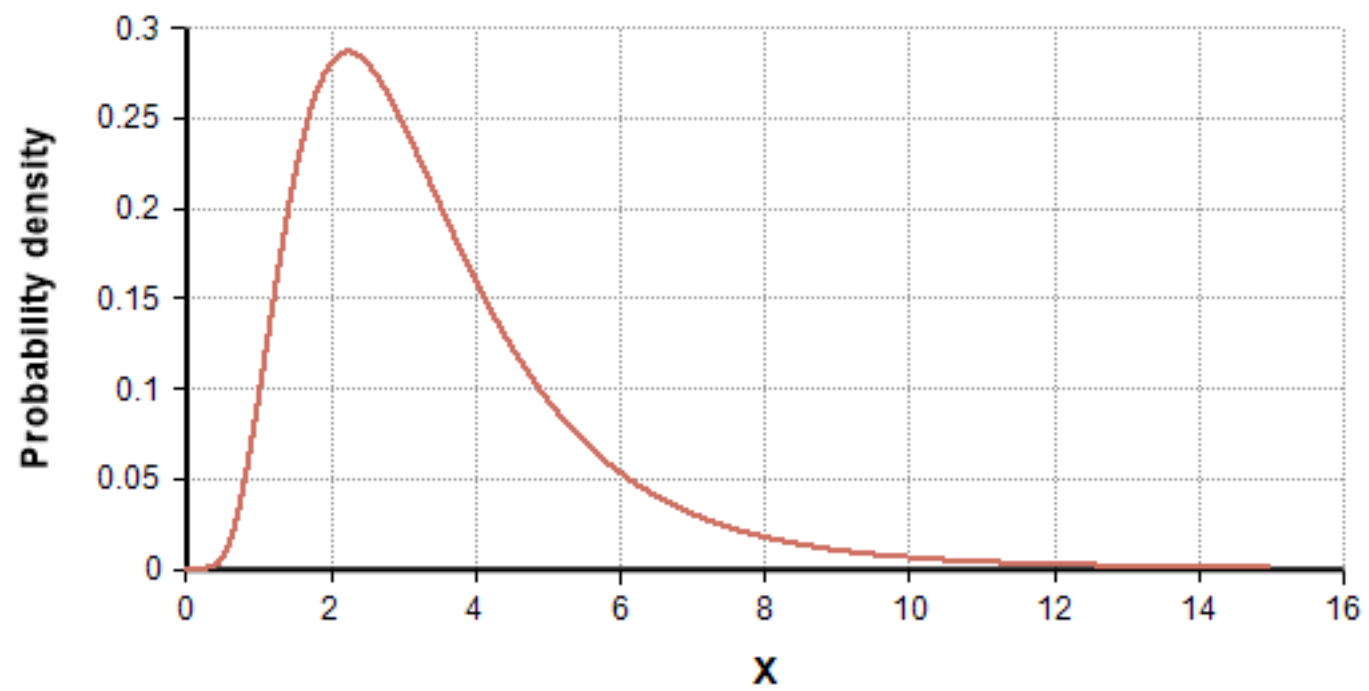


Normal distribution (also called Gaussian or “bell curve”)

Using the empirical rule in a normal distribution



Log Normal distribution



Log Normal distribution

