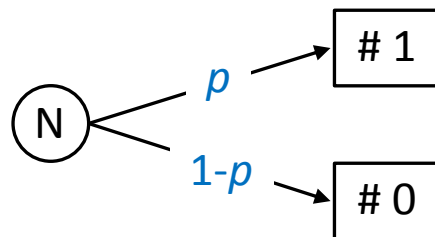
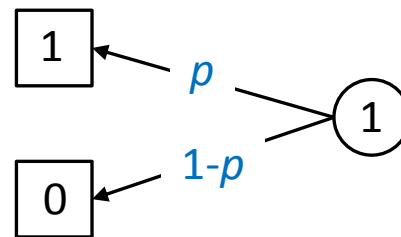


Binomial:
 $y \sim \text{Bin}(N, p)$

Trial size



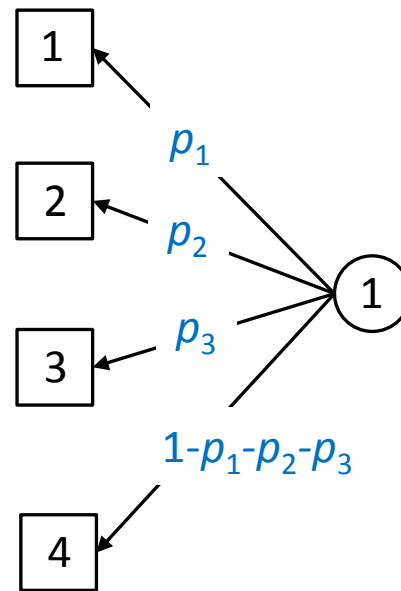
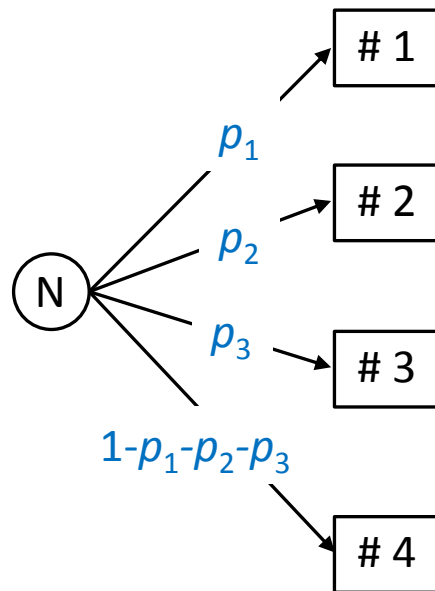
Response (y)



Trial size

Bernoulli:
 $y \sim \text{Bern}(p)$

Multinomial:
 $y \sim \text{Multi}(N, \mathbf{p})$



Categorical:
 $y \sim \text{Cat}(\mathbf{p})$