

BINOMIAL PMF

$$\pi(x|n, p) = \binom{n}{x} p^x (1-p)^{n-x}$$

$$\binom{n}{x} = \frac{n!}{x!(n-x)!}$$

GIVEN A TRANSITION MATRIX P WITH
ROW $P_i = (P_{i1} \dots P_{ik}) \dots$

COUNTS ARE MULTINOMIALLY

DISTRIBUTED

