Binomial Distribution

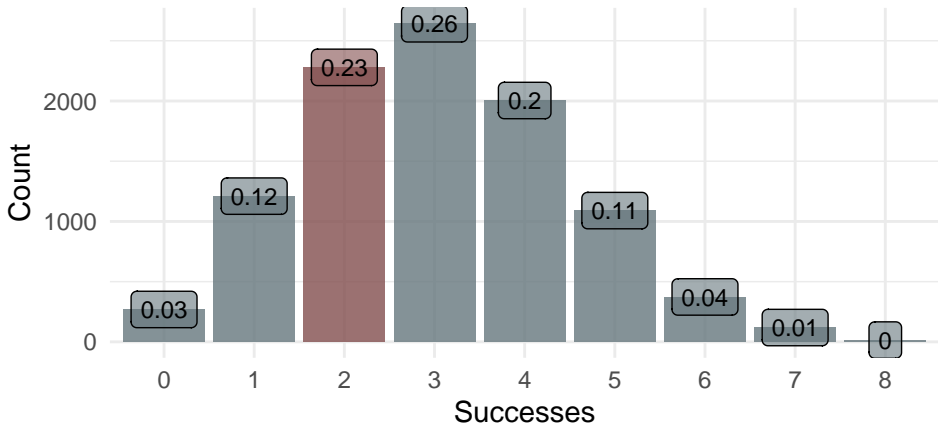P(X=2) successes in 10 trials when p = 0.3 is 0.2335.

Simulation from n = 10,000 binomial random samples.