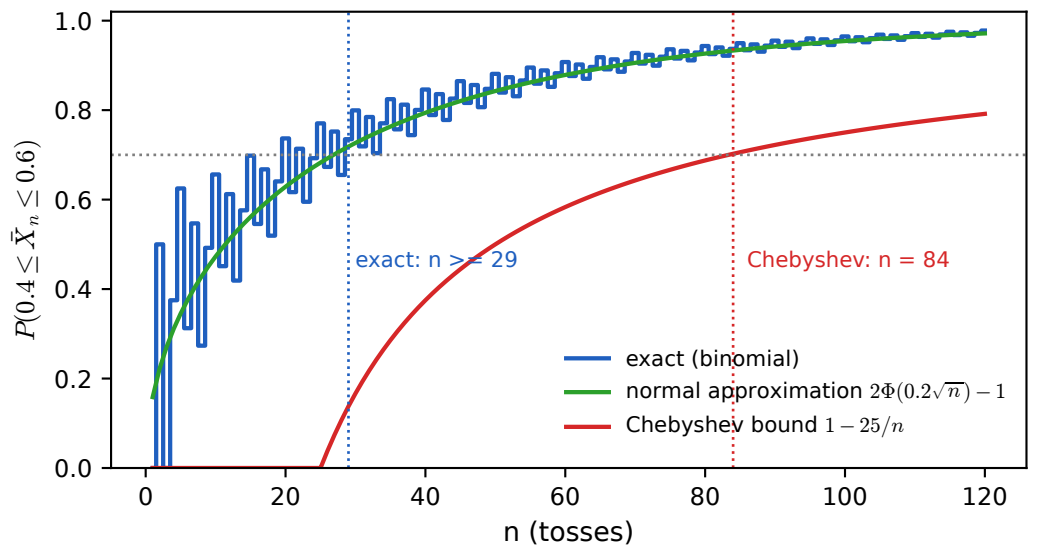

1.0
0.8
0.6
0.4
0.2
0.0
$P(0.4 \leq \bar{X}_n \leq 0.6)$
0
20
40
60
80
100
120
n (tosses)
exact: n >= 29
Chebyshev: n = 84
exact (binomial)
normal approximation $2\Phi(0.2\sqrt{n}) - 1$
Chebyshev bound $1 - 25/n$