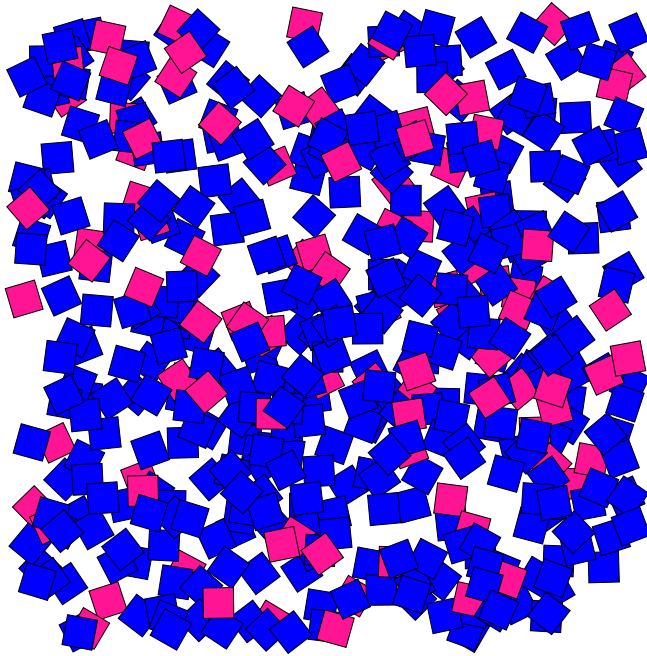## Sampling distribution for proportions

Population distribution
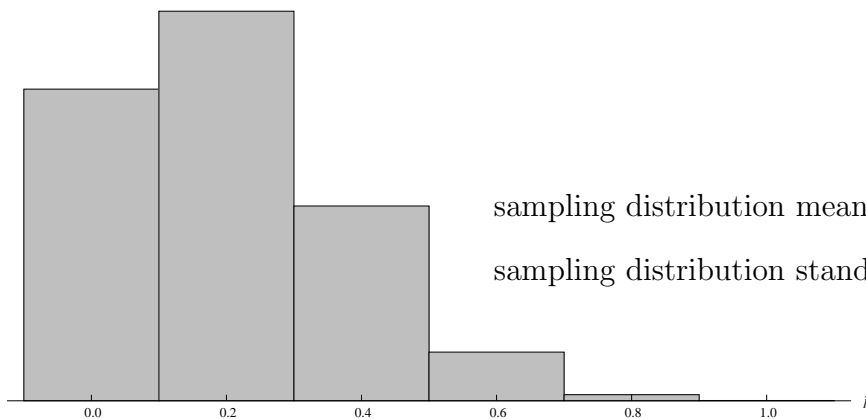
population distribution proportion p

One sample

sample size n
sample proportion $\hat{p}$

Sampling distribution of all possible sample proportions

sampling distribution mean $\mu_{\hat{p}} = p$

sampling distribution standard deviation $\sigma_{\hat{p}} = \sqrt{\dfrac{p(1-p)}{n}}$