

MATH3280 Tutorial 13

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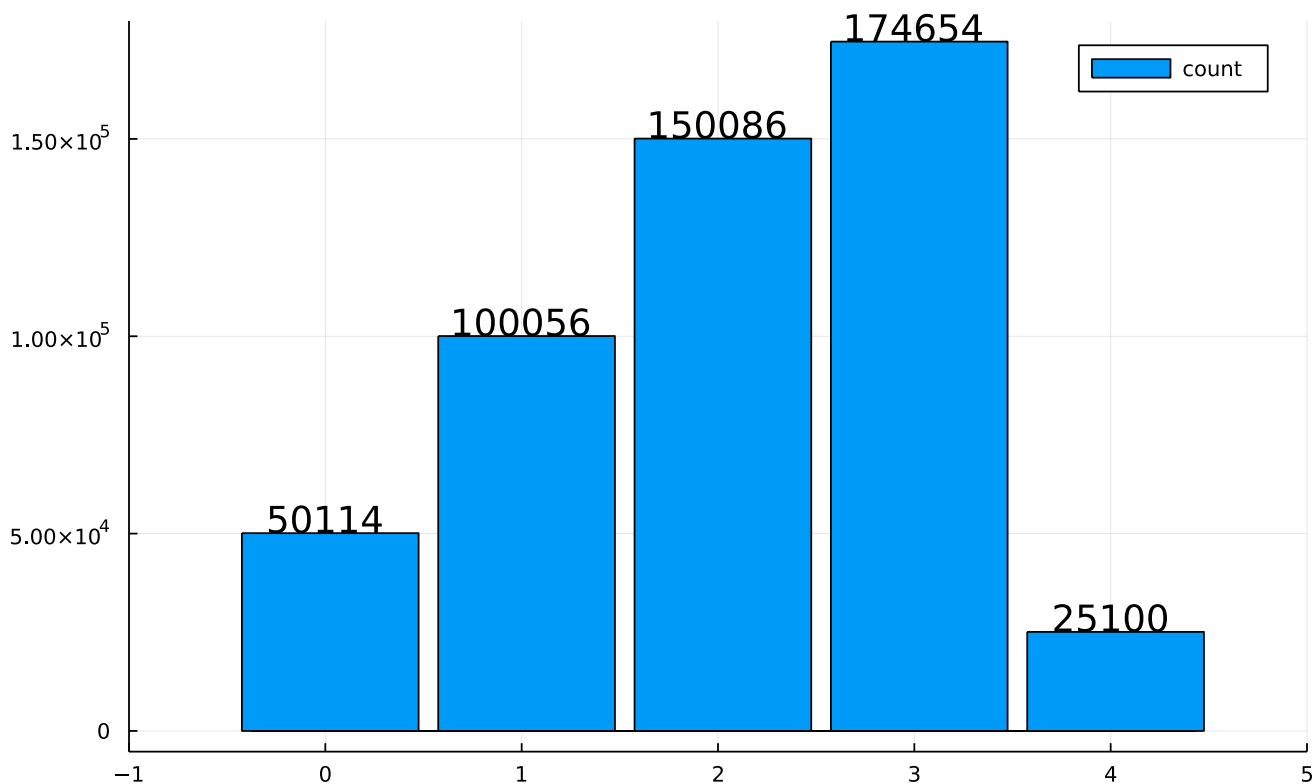
Strong Law of Large number

• $p = [0.1, 0.2, 0.3, 0.35, 0.05]$; # make sure p is a probability vector

$n =$ 1000

Run! 

Theoretical Mean = 2.05
Sample Mean = 2.0491390172196557



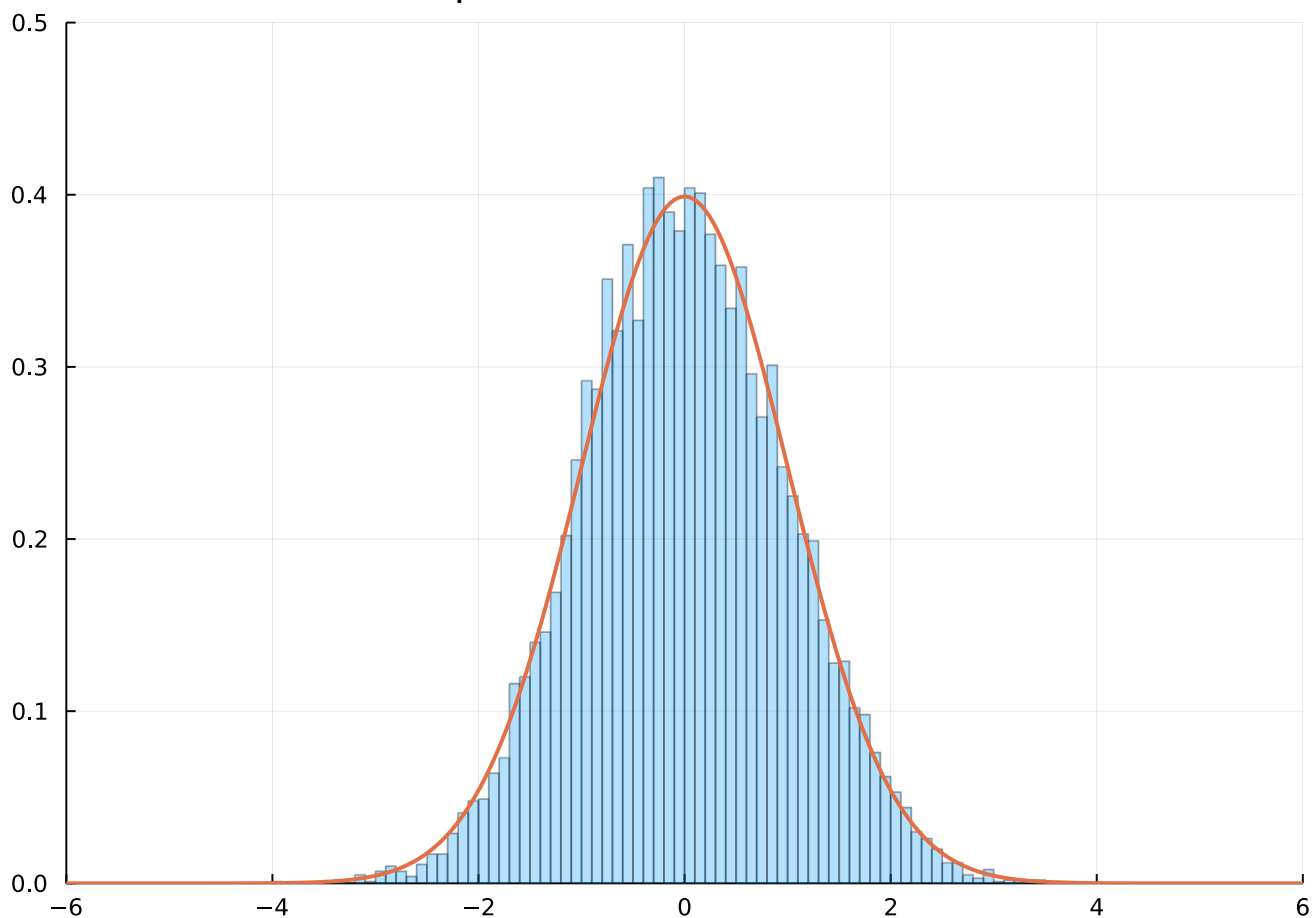
Central Limit Theorem

$\text{Bin}(n, p)$ with $n =$ 633159 $p =$ 0.01

Sample size =

Run! 🚀

Sample from $\text{Bin}(633159, 0.01)$



Normal Distributions

$\mu =$ 0.14 $\sigma =$ 0.71

$N(0.14, 0.71)$

