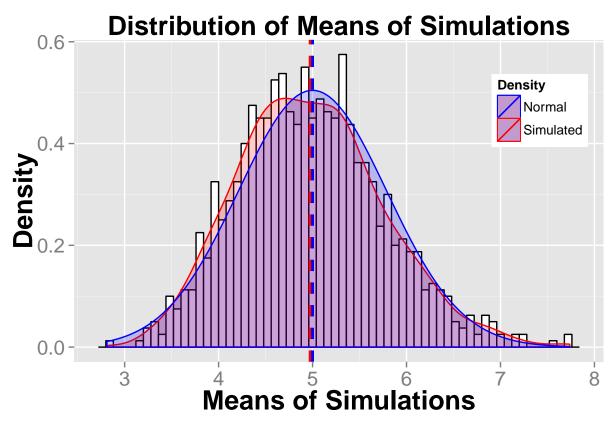
## Statistical Inference Course Project: PART 1

## 1. Simulation Exercise

1. Show where the distribution is centered at and compare it to the theoretical center of the distribution

2. Show how variable it is and compare it to the theoretical variance of the distribution.

3. Show that the distribution is approximately normal. See image below: This shows the distribution of means of the 1000 sample Simulations is approximately normally distributed



4. Evaluate the coverage of the confidence interval

## Confidence Interval

## [1] 4.675 5.274

## Confidence Interval Coverage

## [1] 0.04947