

The chart below displays the results comparing the accuracy of bootstrapping confidence intervals versus normal confidence intervals. We see that at small sample sizes the normal CIs outperform the Bootstrap, but as n increases, the accuracy of the bootstrap outperforms the normal CIs. It adjusts the interval more closely to the sample data's variance and skew. When we reach $n=100$, we see the gap starts to close because the larger the sample, the more the data sample resembles the original population causing the bootstrapping CIs and normal CIs to become closer.

