The CLT illustrated.xlsx ReadMe

## The CLT, illustrated\*

\*CLT = Central Limit Theorem

Simply stated:

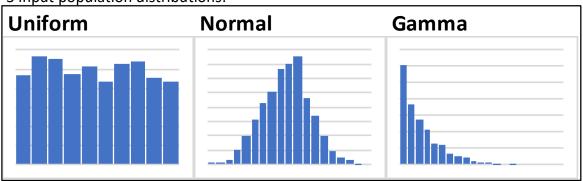
"Take chunks of ~30 or more from any set, and their averages will often have a normal distribution"

## Context

To present to concept to ~50 peers, the Central Limit Theorem sheet was prepared in 30 minutes

## Method

3 input population distributions:



2 parameters to sample the populations:

Chunk size
5

# Chunks 500

1 formula (hand-derived in a single cell):

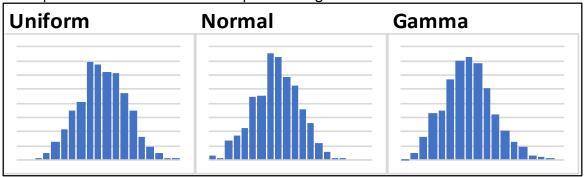
2025-06-13

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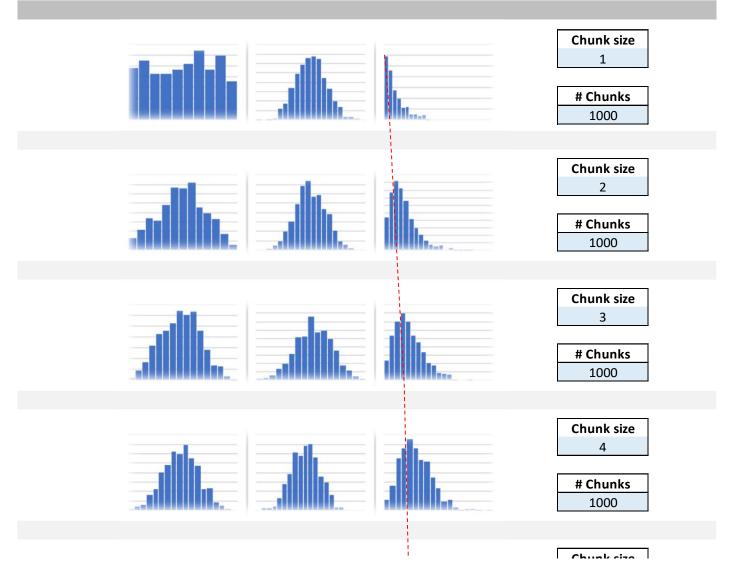


Note: The third paragraph redefines BYCOL(), because an older version of Excel was used

3 outputs: distributions of the samples' averages

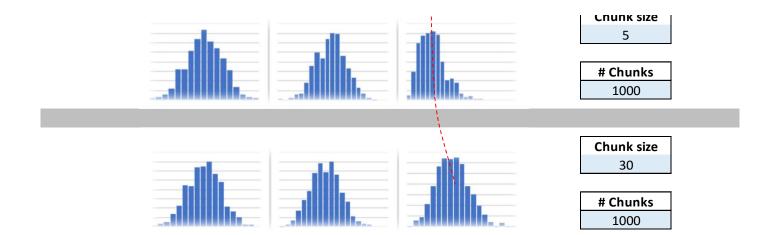


(Try: 1000 Chunks // Chunk sizes 1 through 5 -- illustrated below)



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