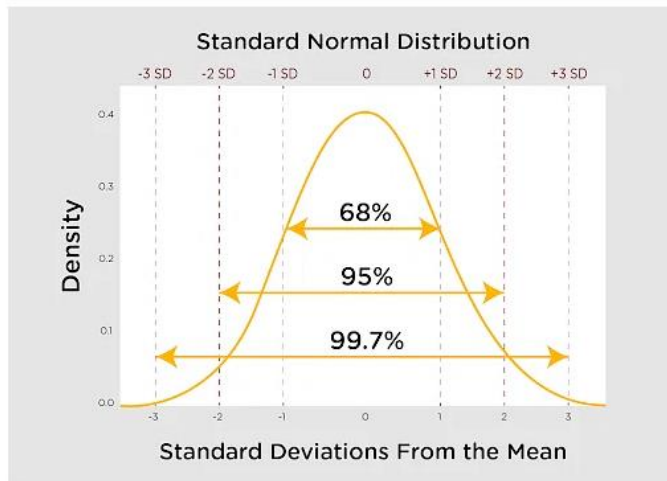


HW 4 Empirical Rule of any Normal dist.

- Create R function to confirm the Empirical Rule of Normal which can be used for all normal distributions (μ , σ)
- Modify these commands: `X<-rnorm(10000000, μ , σ)` and `sum(...)`
- Show only the area (probability) under curve; 0.68, 0.95, 0.997 (no graph)

Graphical Explanation



- The normal distribution is associated with the 68-95-99.7 rule which is shown in the image above.
- 68% of the data is within 1 standard deviation (σ) of the mean (μ).
- 95% of the data is within 2 standard deviations (σ) of the mean (μ).
- 99.7% of the data is within 3 standard deviations (σ) of the mean (μ).