V12 - Sampling Distribution Theory - Part 7

Course: Statistical Testing & Regression
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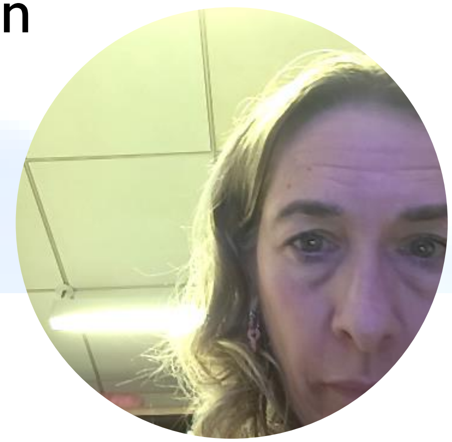
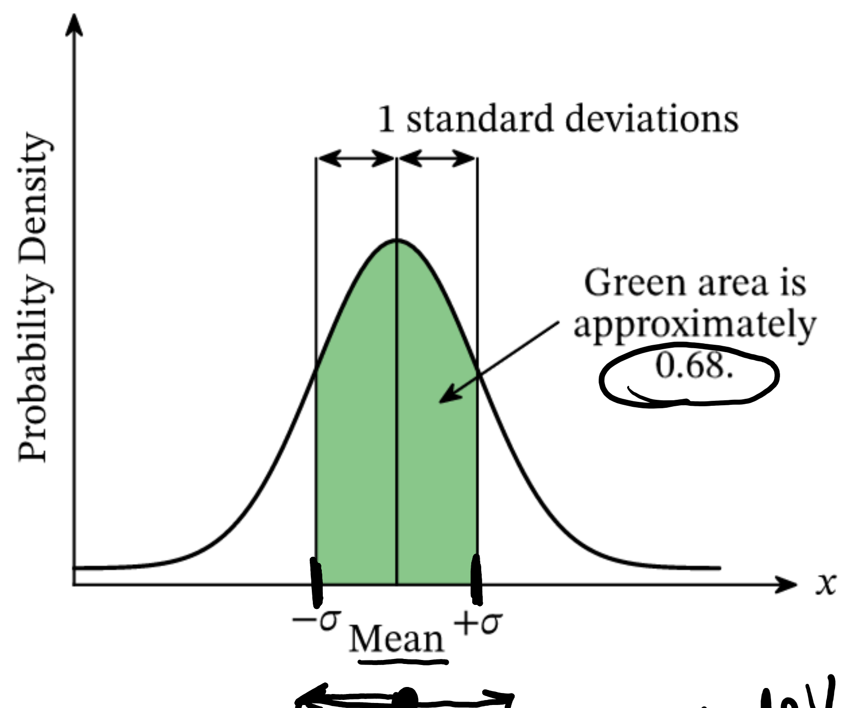


Sampling Distribution Theory– Part 7

- Empirical (68-95-99.7) Rule

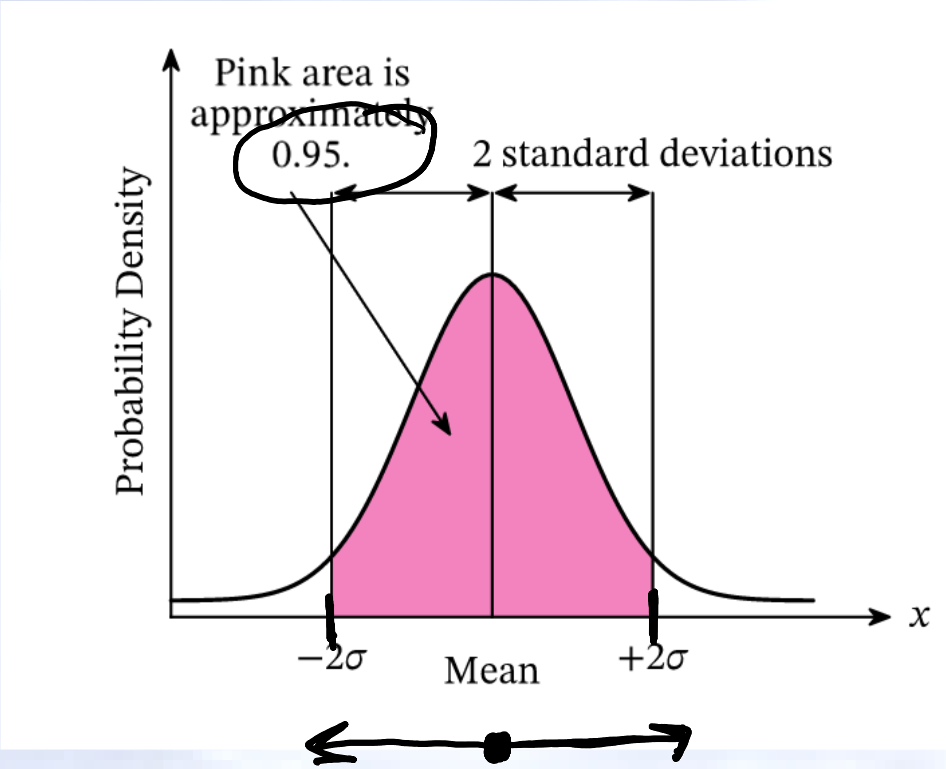
68-95-99.7 Rule (Empirical Rule)



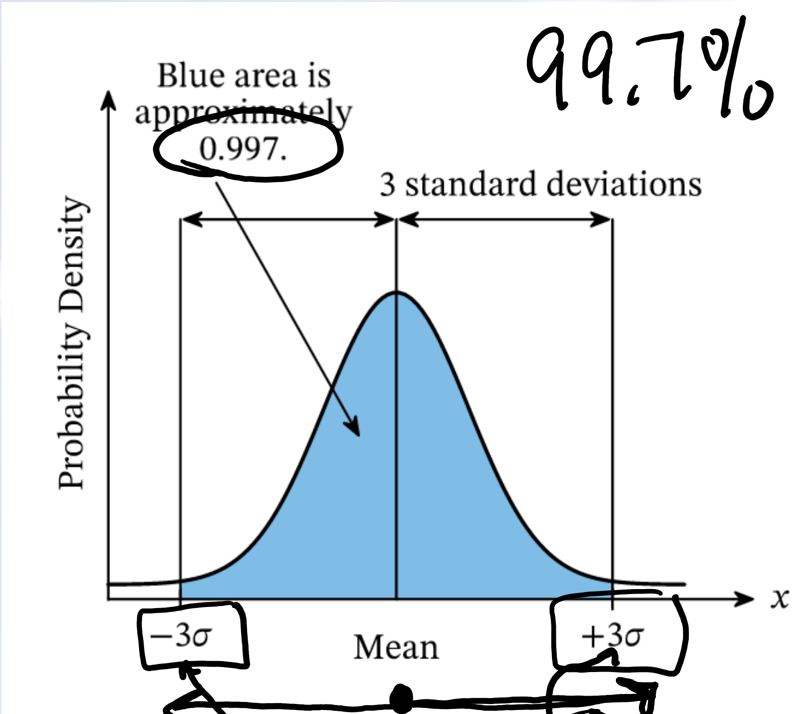
1σ 1σ

1 standard dev.

68-95-99.7 Rule (Empirical Rule)



68-95-99.7 Rule (Empirical Rule)



In probability table, z is as large as 3.49 and as small as −3.49.

z is number of standard dev's σ's from the mean (0)

That's why 99.7% (MOST) of area is +/- 3σ, or 3 standard deviation from mean. = μ

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