Basic Ideas of Sampling



- Population (Sometimes, it is not even observable and only abstract)
- Sampling Frame (if you are lucky, you might get this, not guaranteed in most practical situations)
- 3. Subject
- 4. Parameter(Constant might be unknown)
- 5. Statistic (Random Variable)

Central Limit Theorem





Theorem

If the sample size is large, for WITH REPLACEMENT and independent sampling, the sample mean X is approximately normal with

- mean = μ
- 2. variance = 🚅



What is meant by large n? Typically, n > 30

