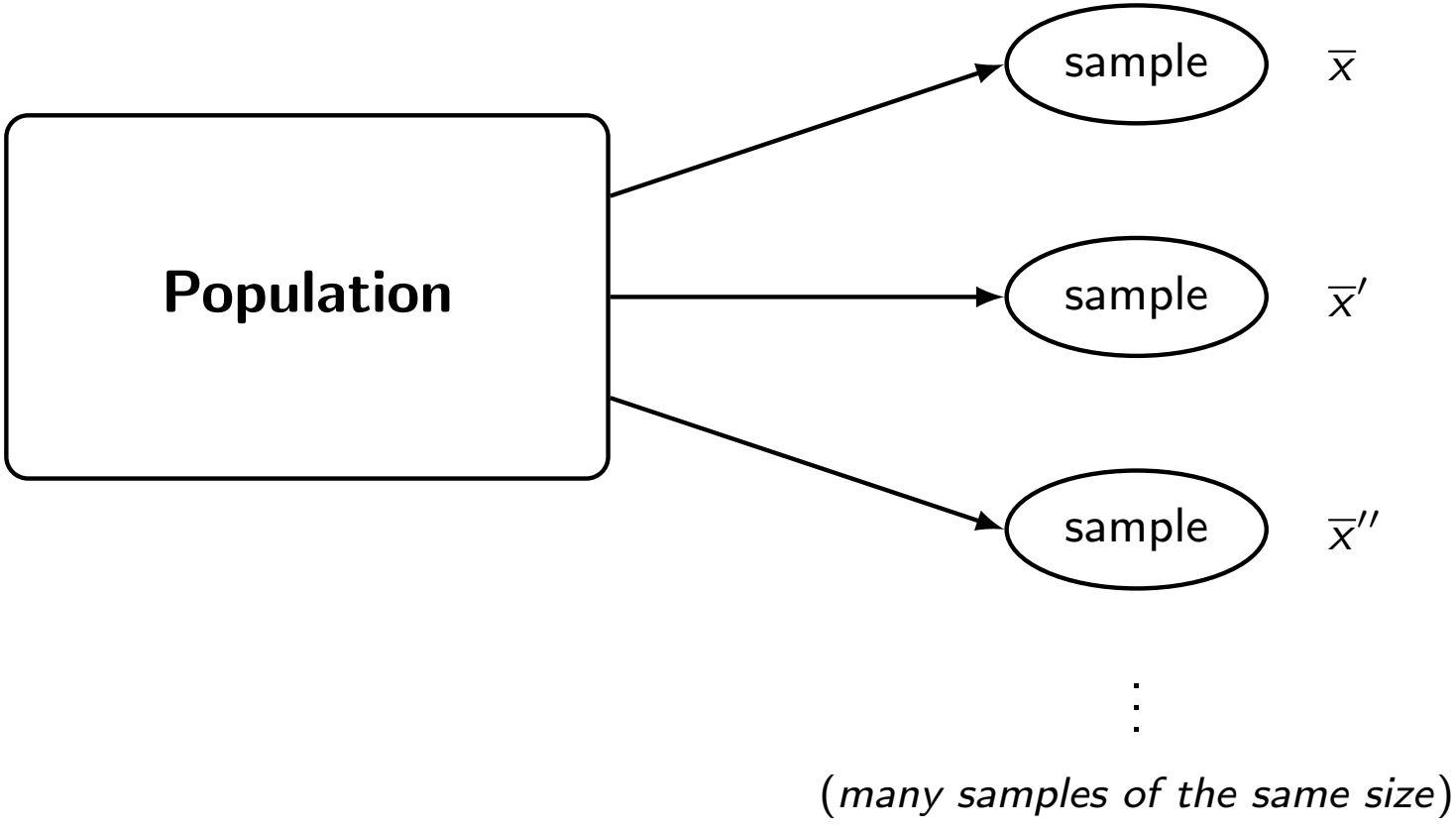
Probability Distribution of Sample Statistics

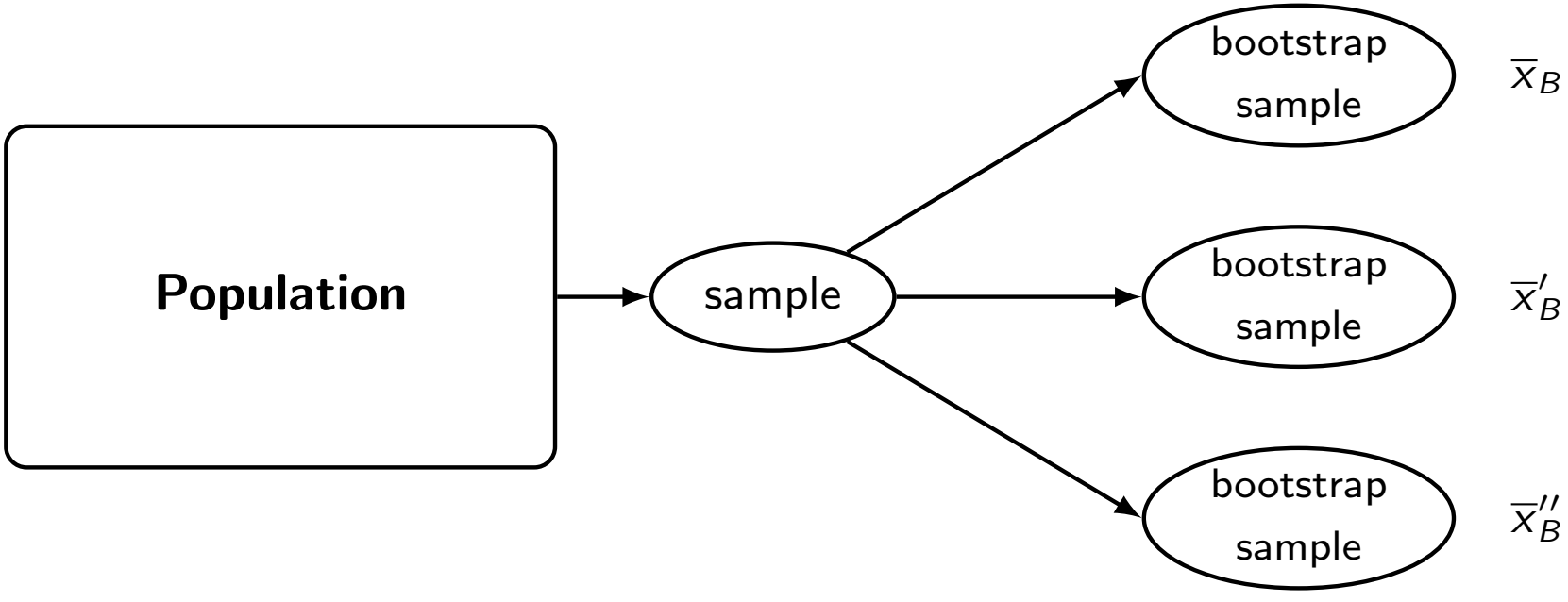
I'm a visual learner, can I get a pictorial representation of how a sampling distribution might be obtained?



Purpose of Bootstrapping

What the heck? Why would we do that?

Because measurements can be costly and limited, and bootstrapping—a **resampling procedure**—is a proven way to learn about the sample distribution of statistics from a *single* sample under many circumstances.



(*many bootstrap samples of the same size*)