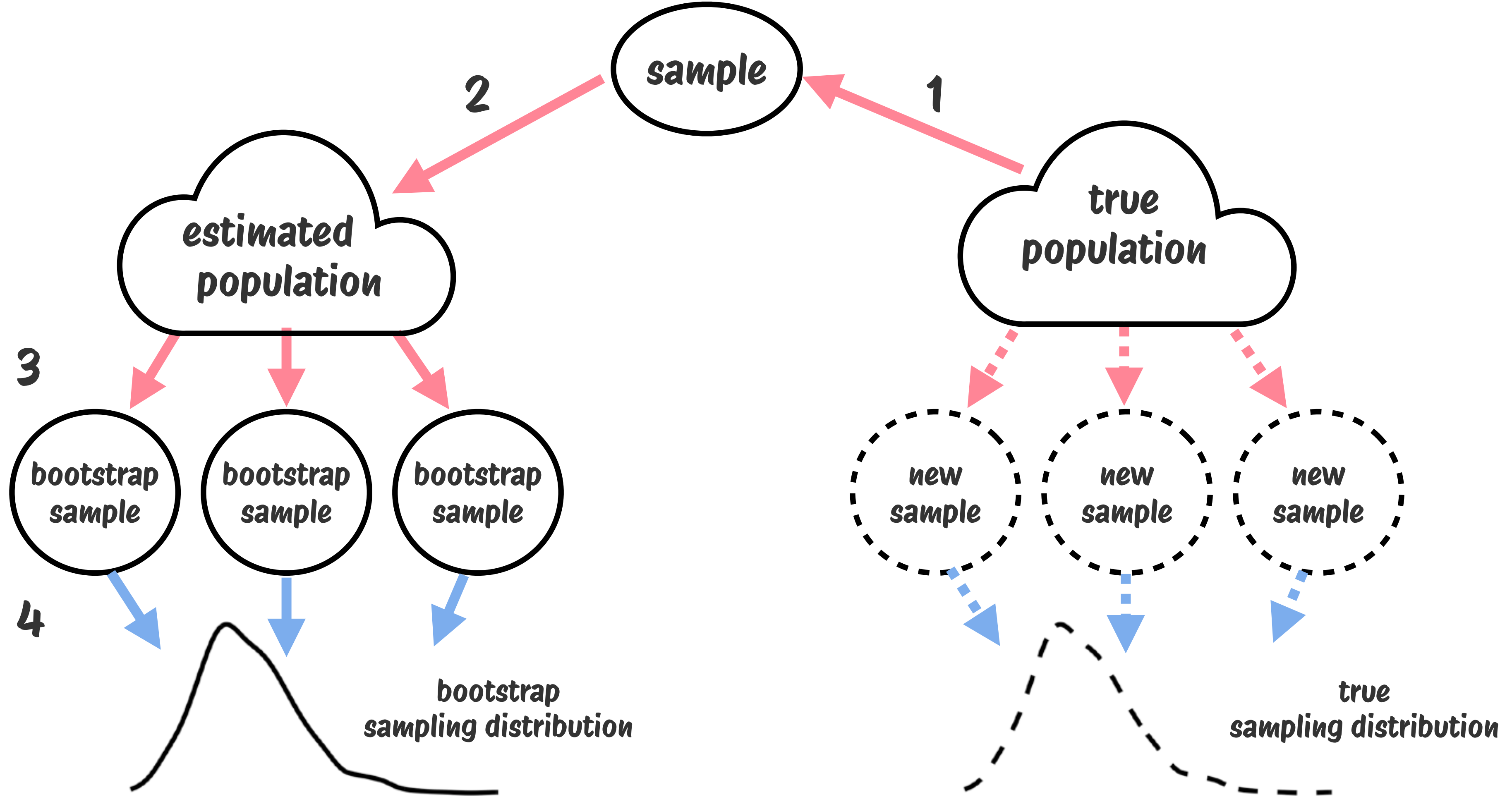# Bootstrapping: resampling with replacement

"The Baron had fallen to the bottom of a deep lake. Just when it looked like all was lost, he thought to pick himself up by his own bootstraps."

"The Surprising Adventures of Baron Munchausen" (1785) by Rudolph Erich Raspe

sample

2   1

estimated population

true population

3

bootstrap sample   bootstrap sample   bootstrap sample

new sample   new sample   new sample

4

bootstrap sampling distribution

true sampling distribution

Bootstrapping: resampling with replacement

"The Baron had fallen to the bottom of a deep lake. Just when it looked like all was lost, he thought to pick himself up by his own bootstraps."
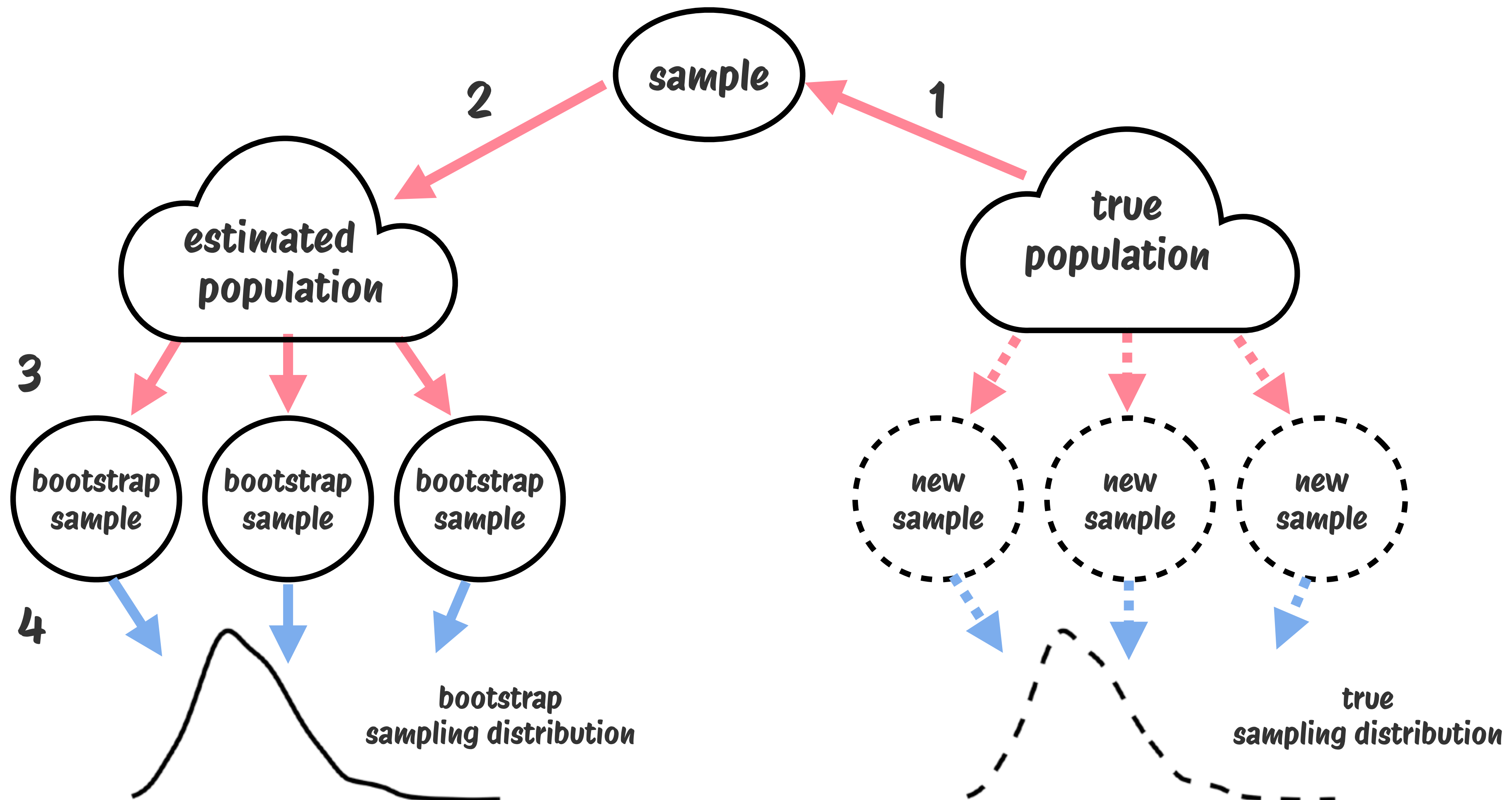
"The Surprising Adventures of Baron Munchausen" (1785) by Rudolph Erich Raspe

Bootstrapping