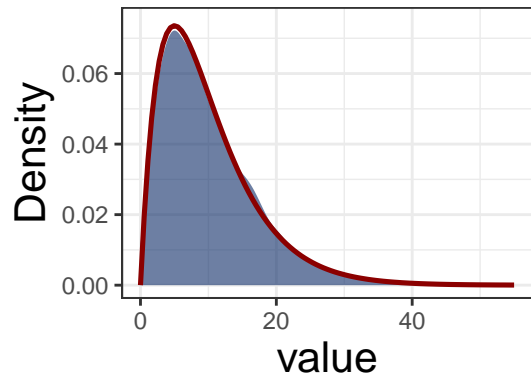from $X \sim \text{Exp}(\lambda = 0.2)$ with Weights $h(x) = x$

Gamma(2, 0.2) in Red, Sample Size: 1e+05,
Posterior Sample Size:10000

— PDF of Gamma(2, 0.2)

■ After Sampling