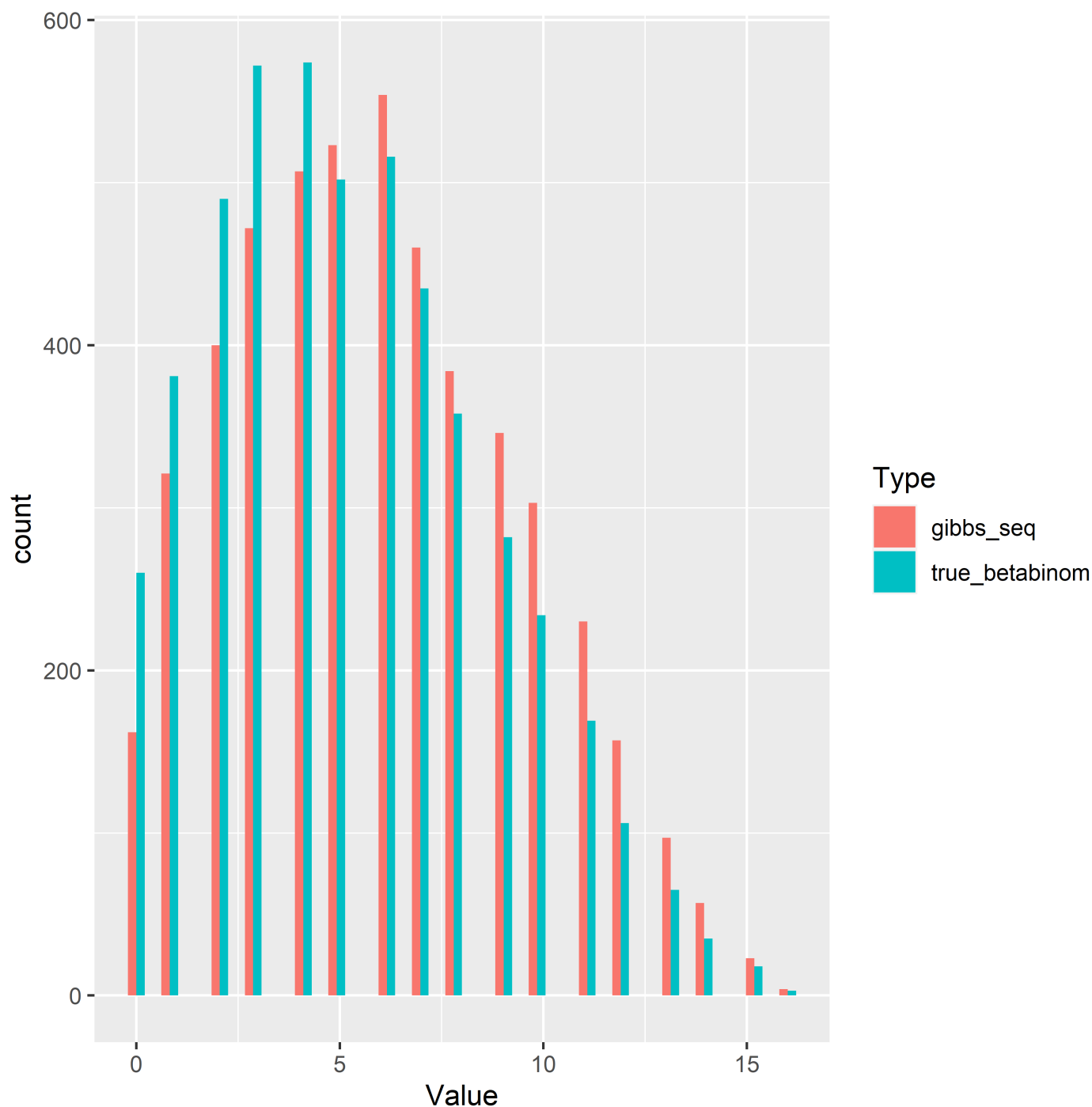


Explaining the Gibbs Sampler

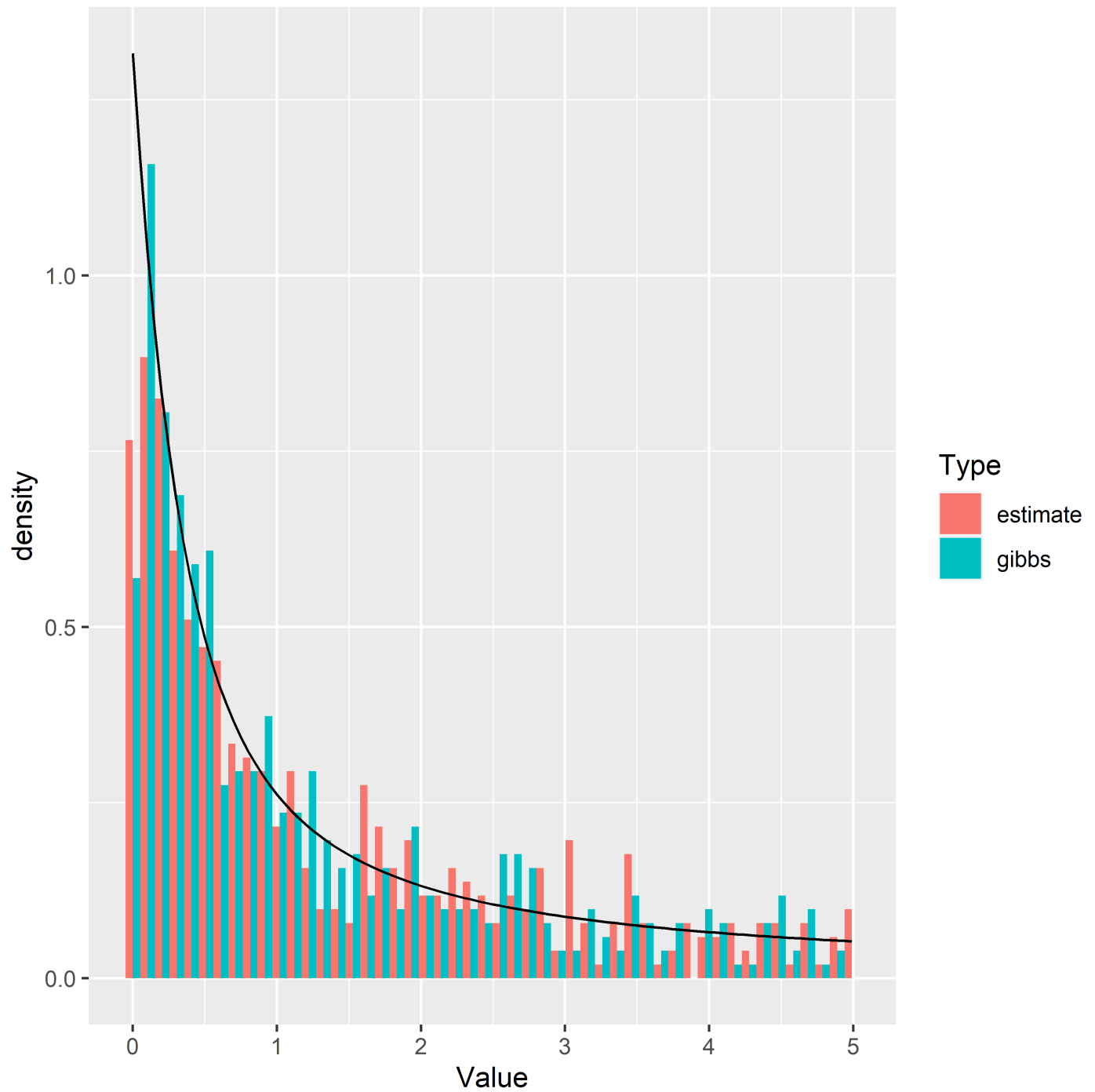
- Example1: Histogram of samples obtained using Gibbs sampling and beta-binomial distribution
- Example 1(continued)
- Example 2 (continued)
- Estimates of probabilities of the marginal distribution of X.

Example1: Histogram of samples obtained using Gibbs sampling and beta-binomial distribution

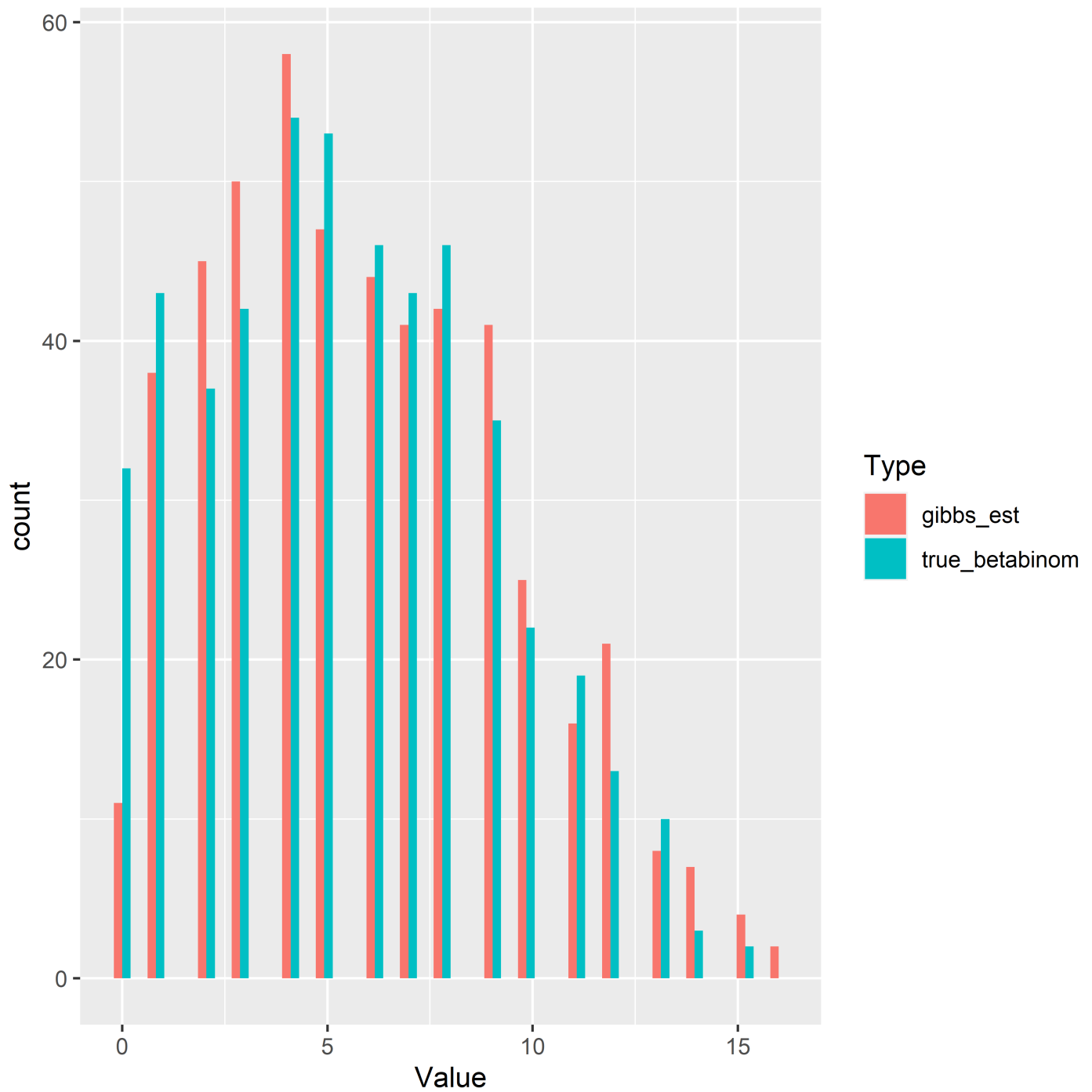


Example2: Histogram of Gibbs sampling, true marginal distribution and an estimate of the marginal density

```
## 3.796091 with absolute error < 1.7e-07
```

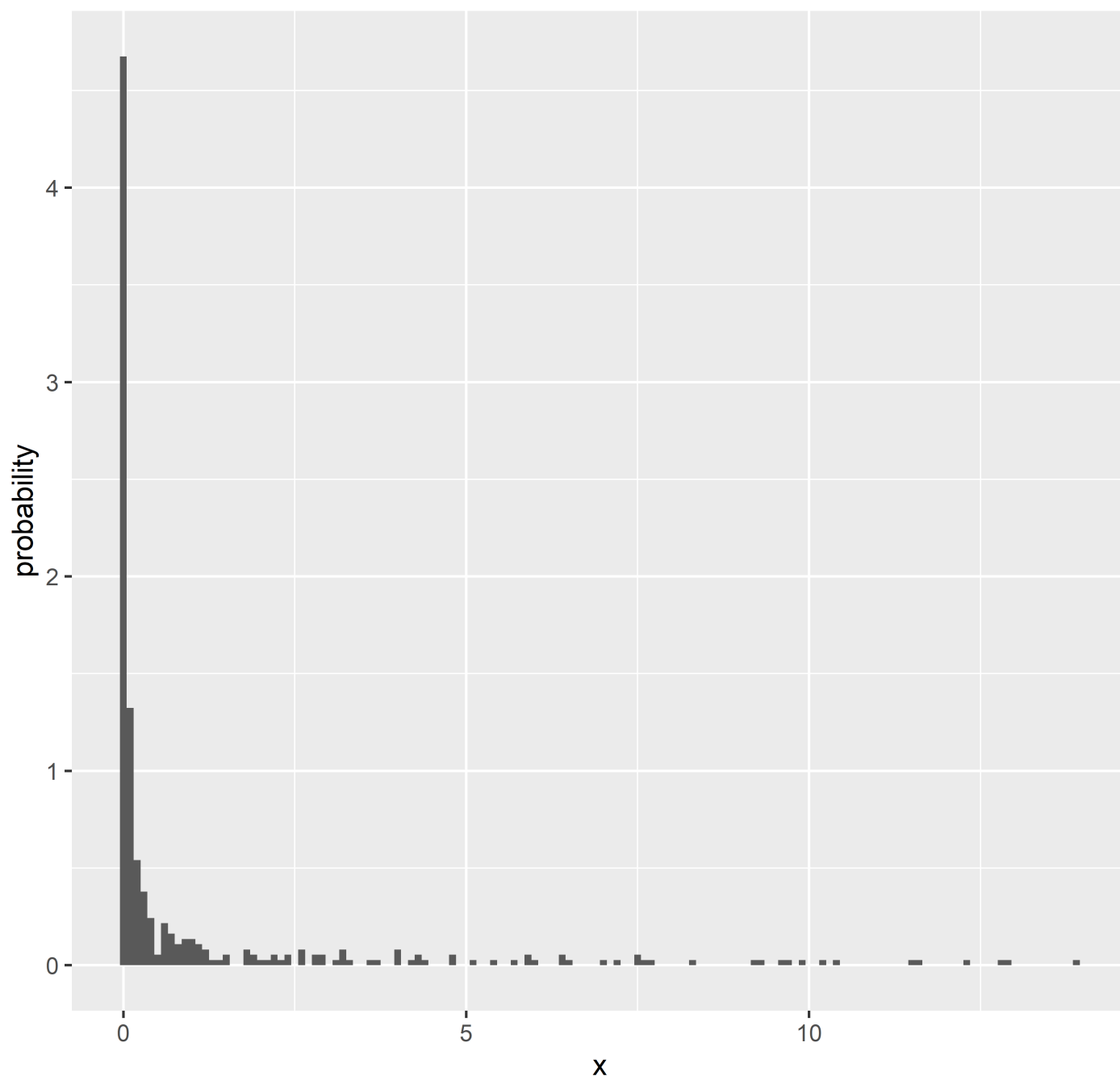


Example 1(continued)



Example 2 (continued)

Histogram of a sample of size $m = 500$ from the conditional Distributic



Estimates of probabilities of the marginal distribution

of X .

Marginal distribution of X

