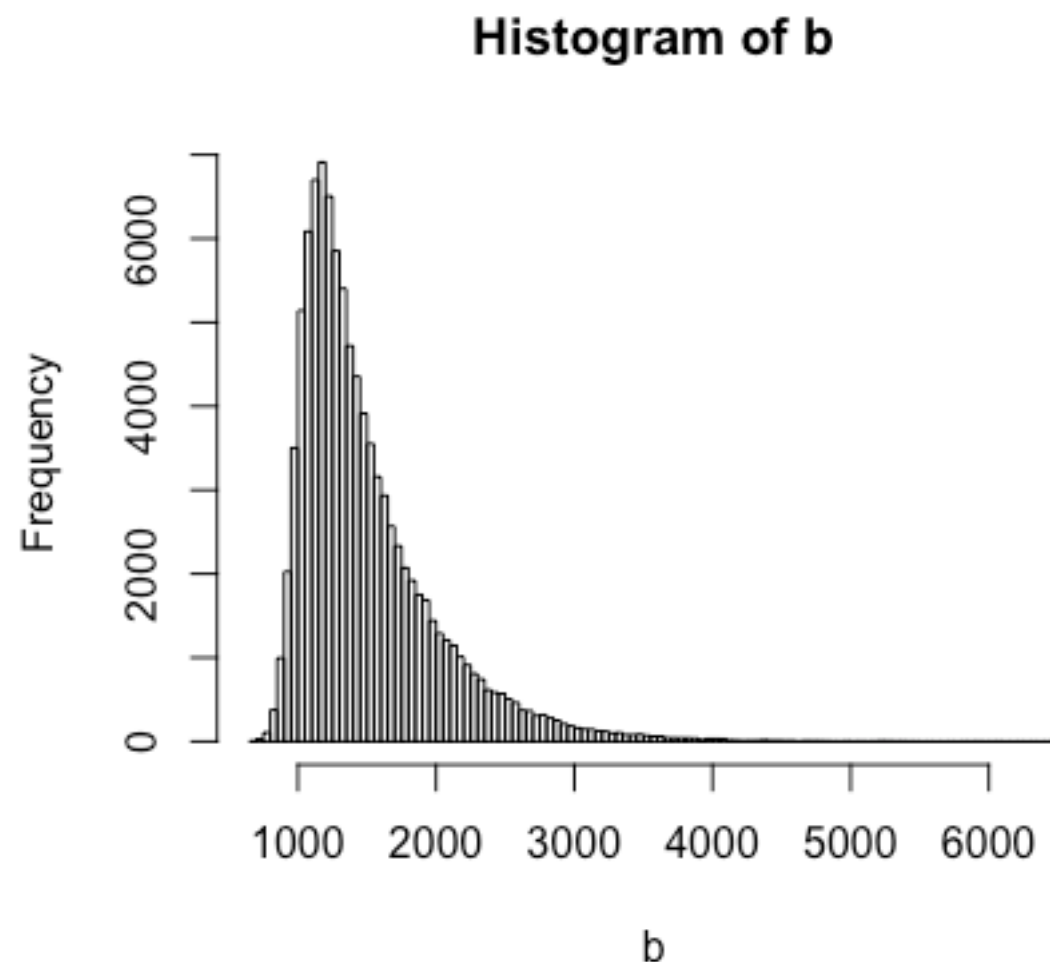
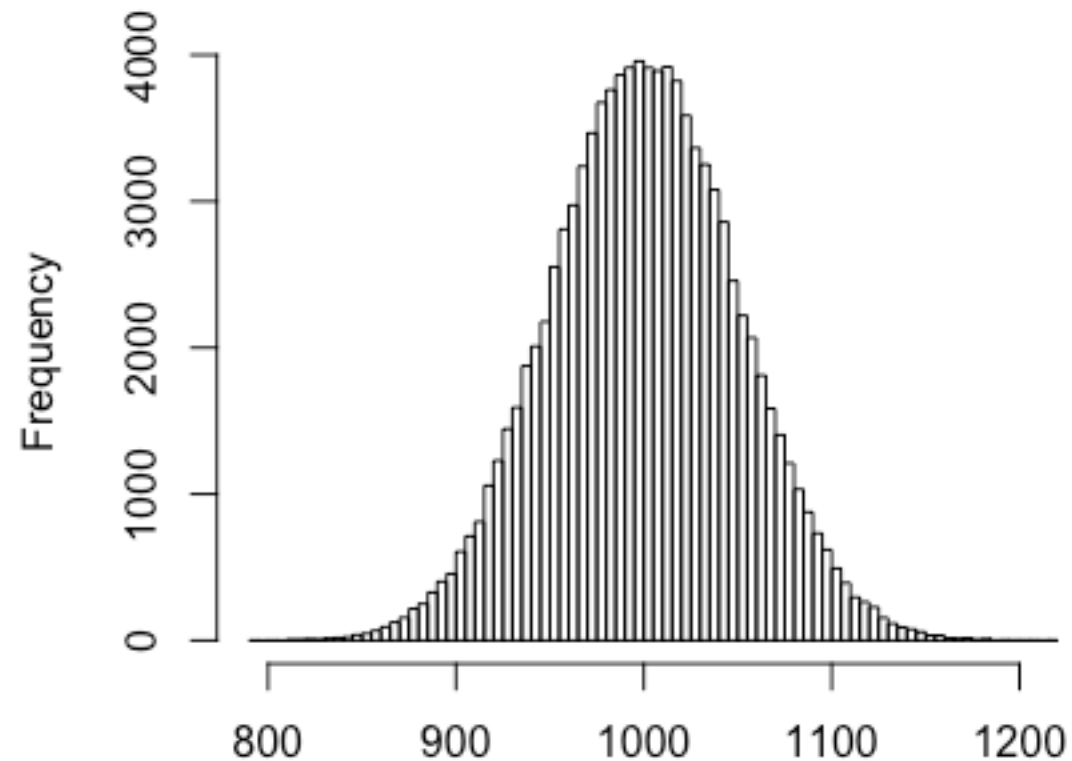


- So far we've assumed sampling from a normal distribution, but other distributions are available (and may be more appropriate depending on your measure).
- Reaction time data tend to follow the ex-Gaussian distribution - this is a combination of a normal and exponential distribution.



- People tend to have a floor to their reaction times (i.e., they can't react faster than a certain lower limit).

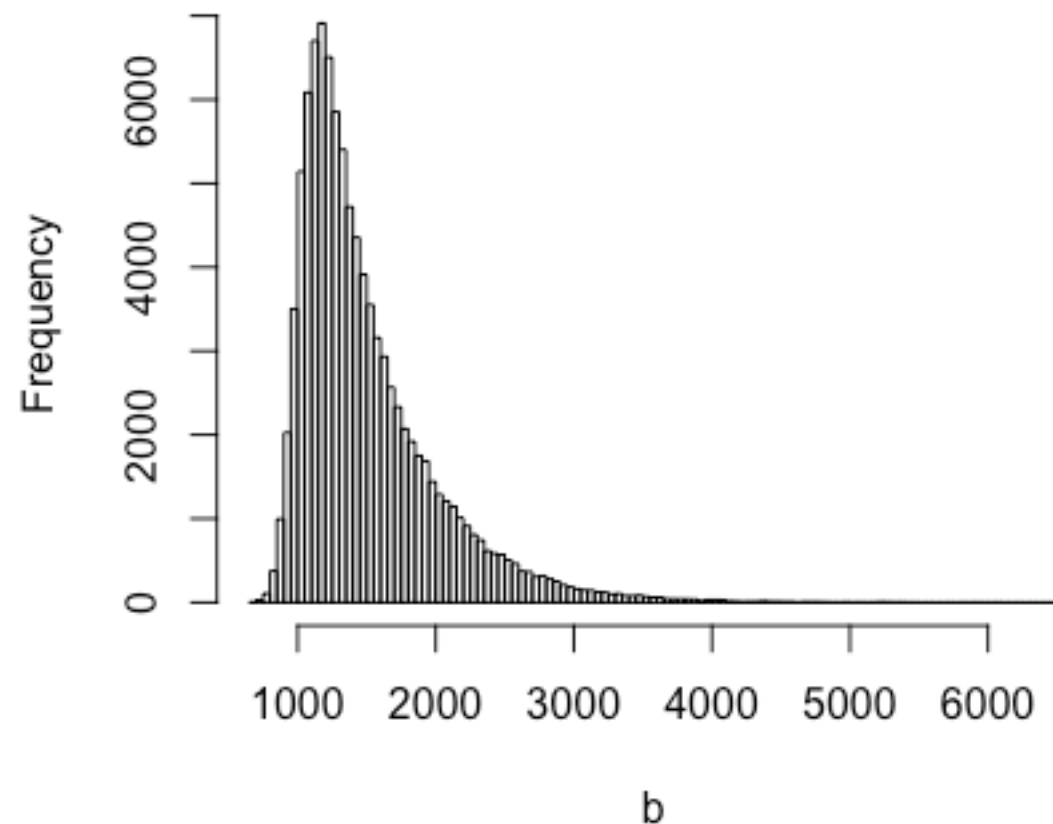
Histogram of a



Sampling from the normal distribution

```
a <- rnorm(100000, 1000, 50)
hist(a, breaks = 100)
```

Histogram of b



Sampling from the ex-Gaussian distribution

```
b <- rexGAUS(100000, mu = 1000,
             sigma = 100, nu = 500)
hist(b, breaks = 100)
```

mu and sd are the mean and sd of the normal distribution component, nu is the mean of the exponential component.