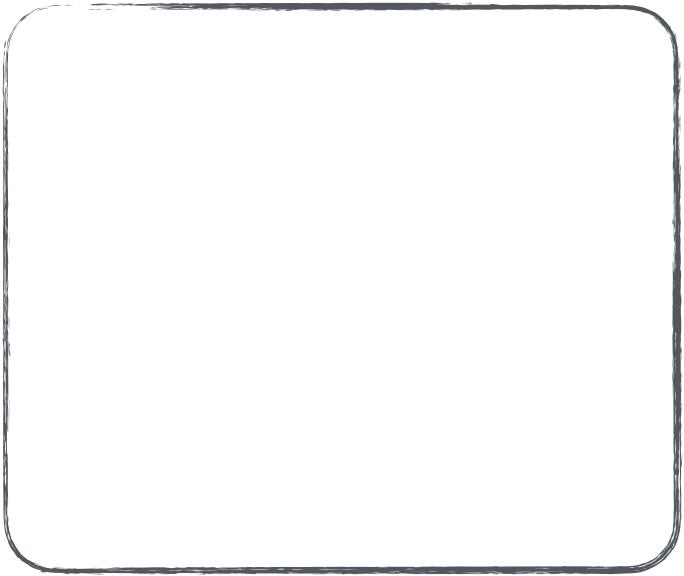
## Posterior samples

```
samples
# A tibble: 2,000 × 3
                              sigma
            a
   <dbl[1d]> <dbl[1d]> <dbl[1d]>
                   0.889
                               4.78
         115.
 2
        109.
                               5.30
                   1.02
 3
                               5.07
        112.
                 0.928
 4
        111.
                               5.30
                 0.949
 5
                               5.04
                 0.955
         111.
 6
                               5.19
        115.
                 0.872
 7
        109.
                   1.01
                               5.13
 8
                               5.00
         117.
                   0.844
                               4.94
         115.
                  0.882
10
        112.
                 0.939
                               4.95
#
  ... with 1,990 more rows
```







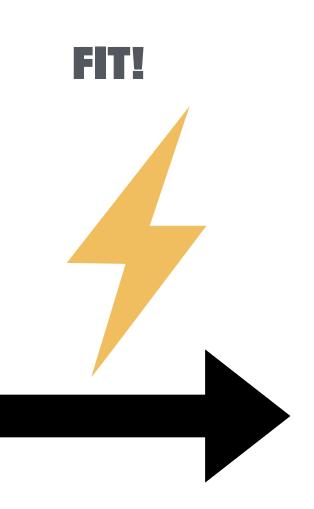


$$y_i \sim Normal(\mu_i, \sigma)$$
  
 $\mu_i = \alpha + \beta x_i$   
 $\alpha \sim Normal(0, 20)$   
 $\beta \sim lognormal(0, 1)$ 

 $\sigma \sim Exponential(1)$ 

## Posterior samples

```
y_{i} \sim Normal(\mu_{i}, \sigma)
\mu_{i} = \alpha + \beta x_{i}
\alpha \sim Normal(0, 20)
\beta \sim lognormal(0, 1)
\sigma \sim Exponential(1)
```



```
samples
# A tibble: 2,000 × 3
                            sigma
   <dbl[1d]> <dbl[1d]> <dbl[1d]>
                 0.889
                             4.78
        115.
                             5.30
        109.
                 1.02
                             5.07
                 0.928
        112.
                             5.30
        111.
                 0.949
                             5.04
        111.
                 0.955
        115.
                 0.872
                             5.19
                             5.13
        109.
                 1.01
                 0.844
                             5.00
        117.
                 0.882
                             4.94
        115.
                             4.95
             0.939
    112.
# ... with 1,990 more rows
```

## Posterior mean estimates