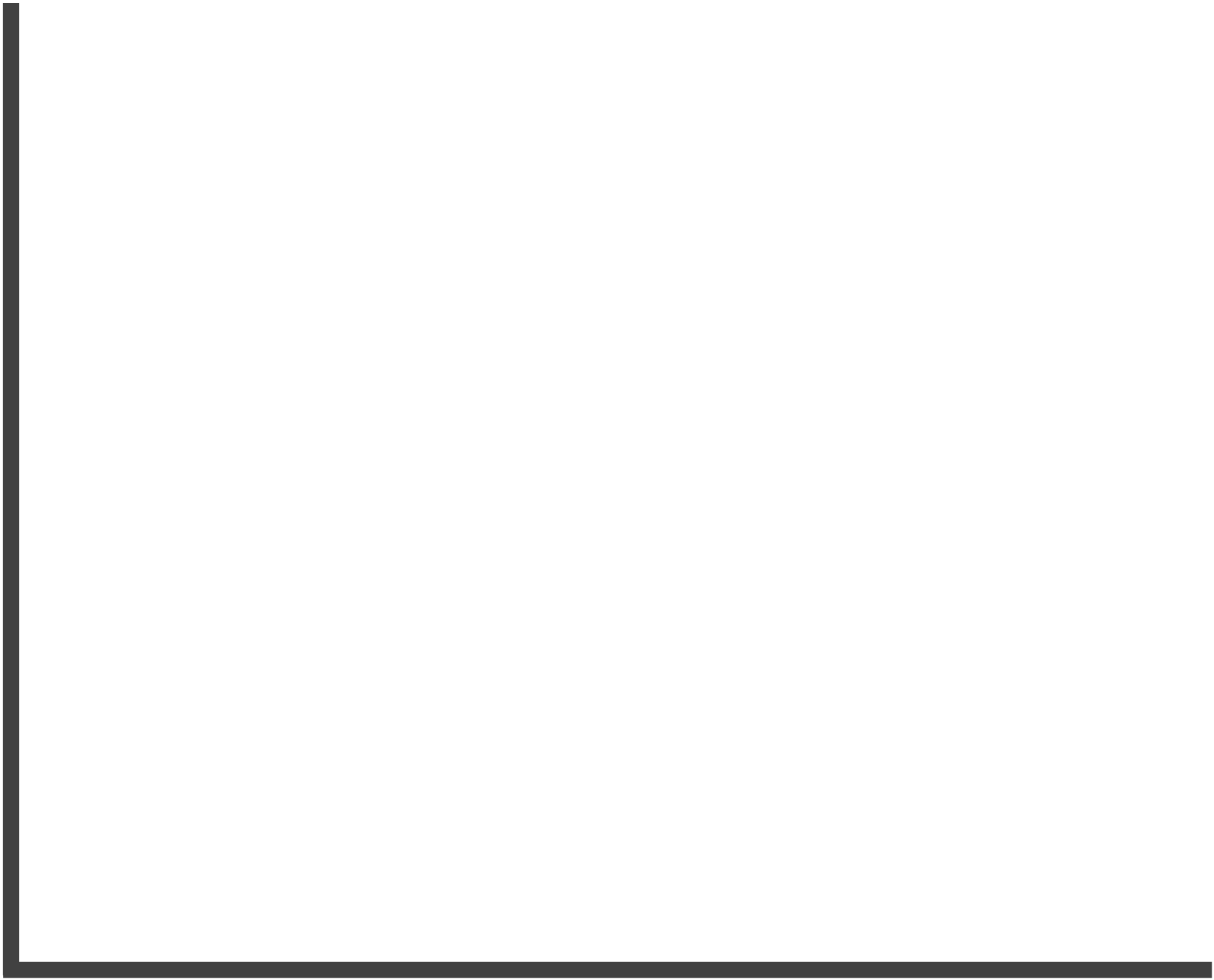
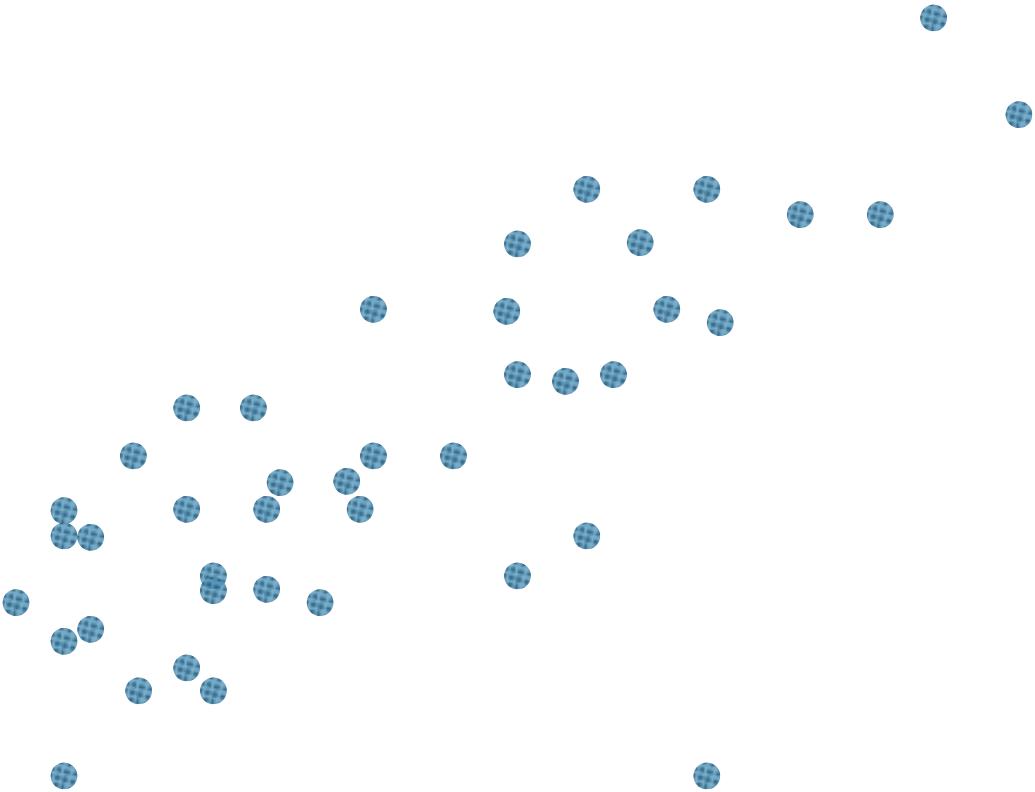


LET'S GET RID OF THESE POSTERIOR CORRELATIONS





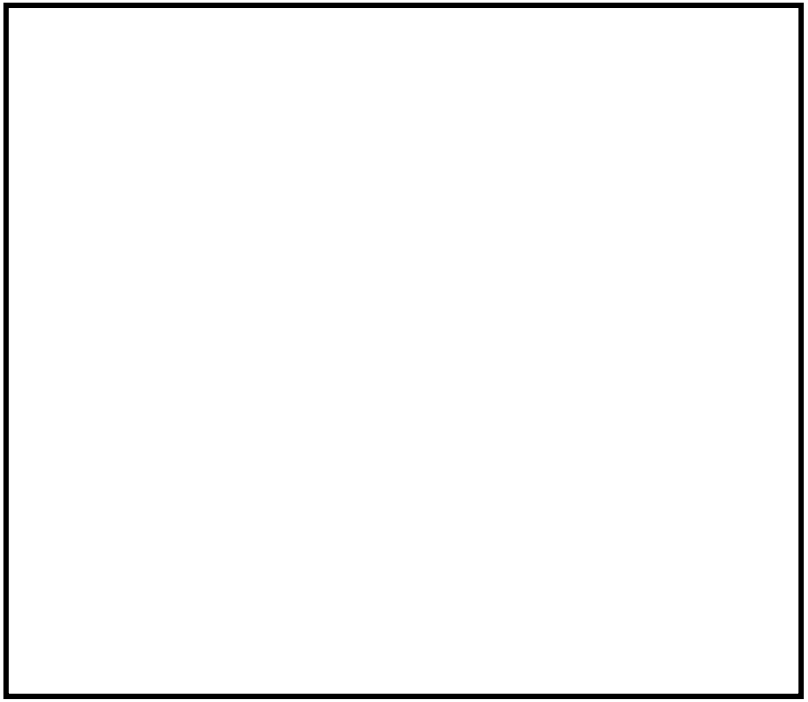
$$y = a + \beta x$$

• Scaling to unit variance

with convergence

Scaling and shifting parameters can help

• Centering both x and y values



$$\tilde{y}_i = y_i - \bar{y}$$

$$\tilde{x}_i = \frac{x_i - \bar{x}}{sd(x)}$$

v

x



$$\text{mean}_x = \text{mean}(\text{d2\$weight})$$

$$\text{std_x} = \text{std}(\text{d2\$weight})$$

#Pre-atalante means and sds

#Model

ulam(alist)

`mean_y == mean(d$height)`

$mu < -a + b * x,$

$y = d_2 \$height - mean_y,$

signa~expnentiail(1),

$$a \sim \text{normal}(0, 1),$$

$y \sim \text{normal}(\mu, \sigma^2)$,

$$x = (d2\$weight - mean_x) / sd_x;$$

$$b \sim \text{lognormal}(0, 1),$$

```
iter=1000, chains=4, cores=4)
```

data = list()

$$\tilde{y} = \alpha + \beta \tilde{x}$$

a = 0





