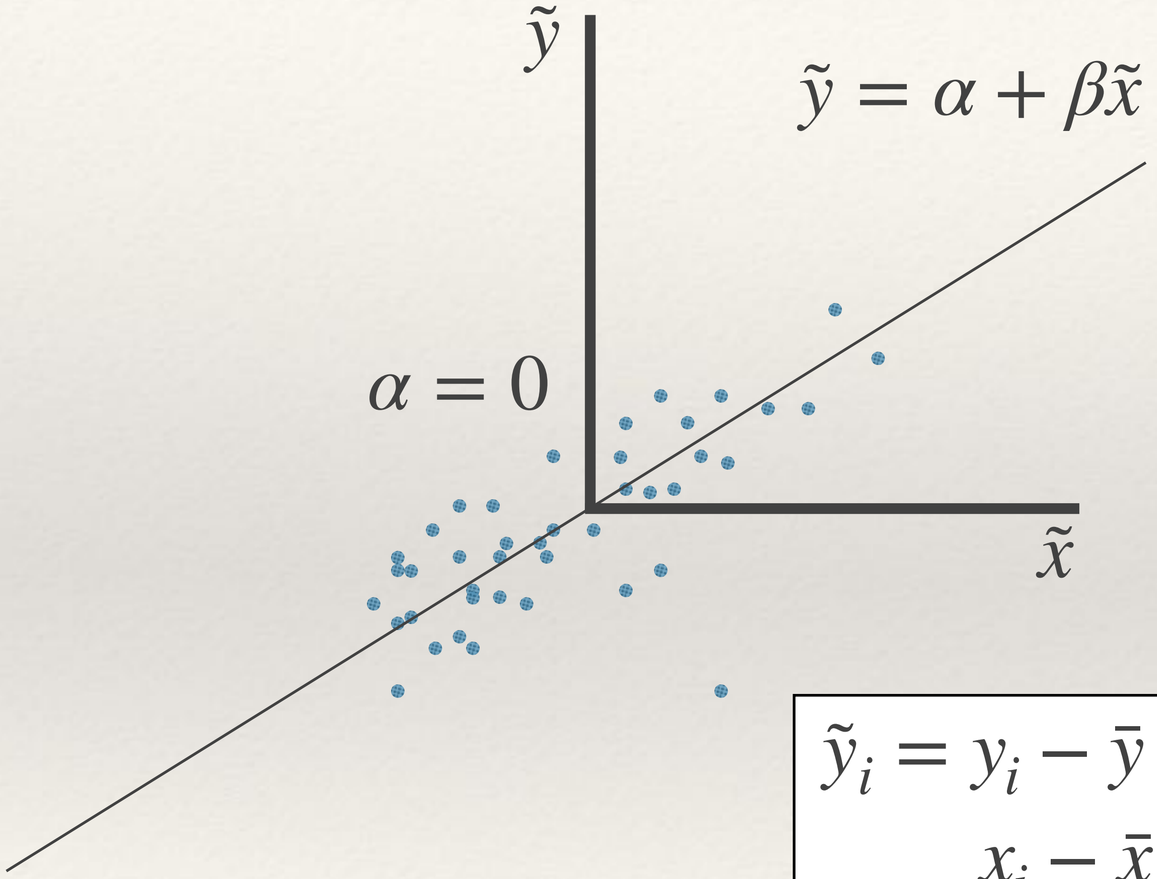
LET'S GET RID OF THESE POSTERIOR CORRELATIONS



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

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

```
# Pre-calculate means and sds
mean_x = mean(d2$weight)
sd_x = sd(d2$weight)
mean_y = mean(d2$height)

# Model
ulam(alist(
  y ~ normal(mu, sigma),
  mu <- a + b * x,
  a ~ normal(0, 1),
  b ~ lognormal(0, 1),
  sigma ~ exponential(1)),
  data = list(
    y =  d2$height - mean_y,
    x = (d2$weight - mean_x)/sd_x),
  iter = 1000, chains = 4, cores = 4)
```

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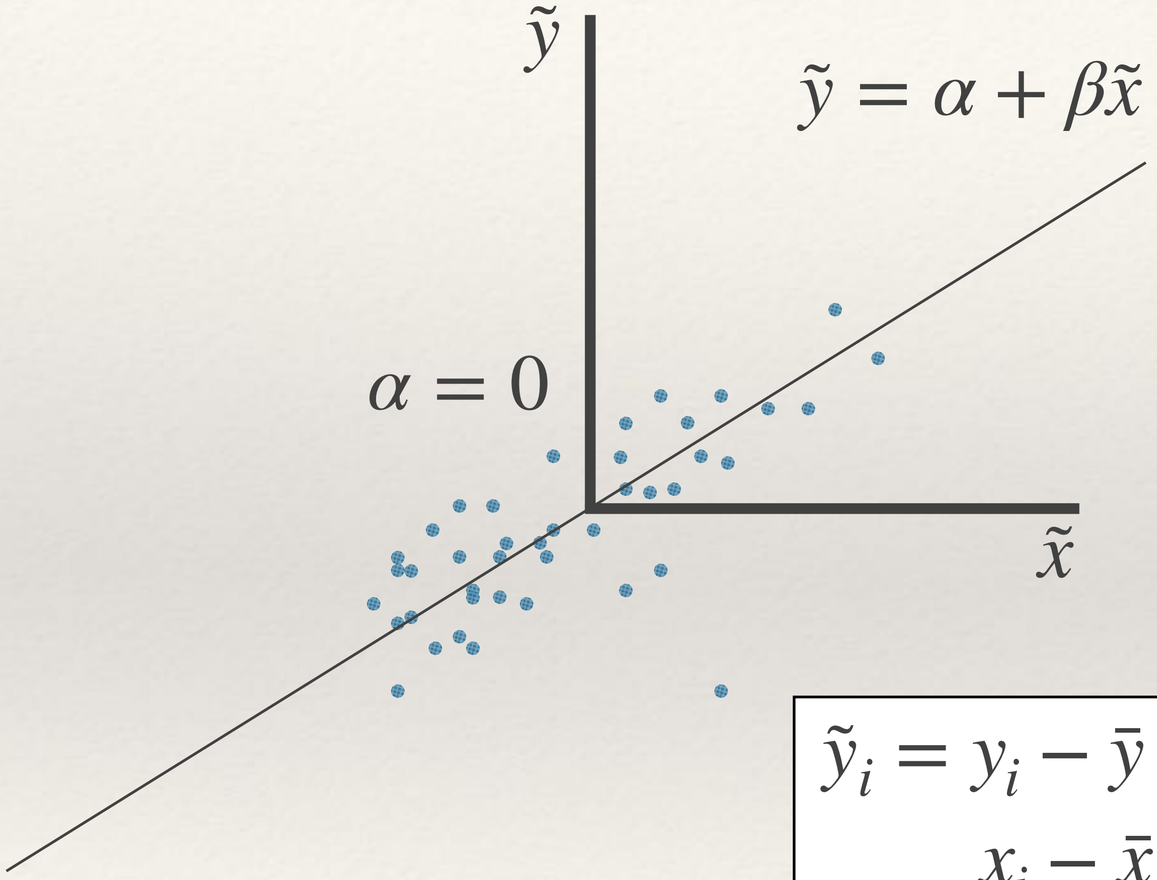

$$\tilde{y}_i = y_i - \bar{y}$$

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

Pairs plot of the centered model