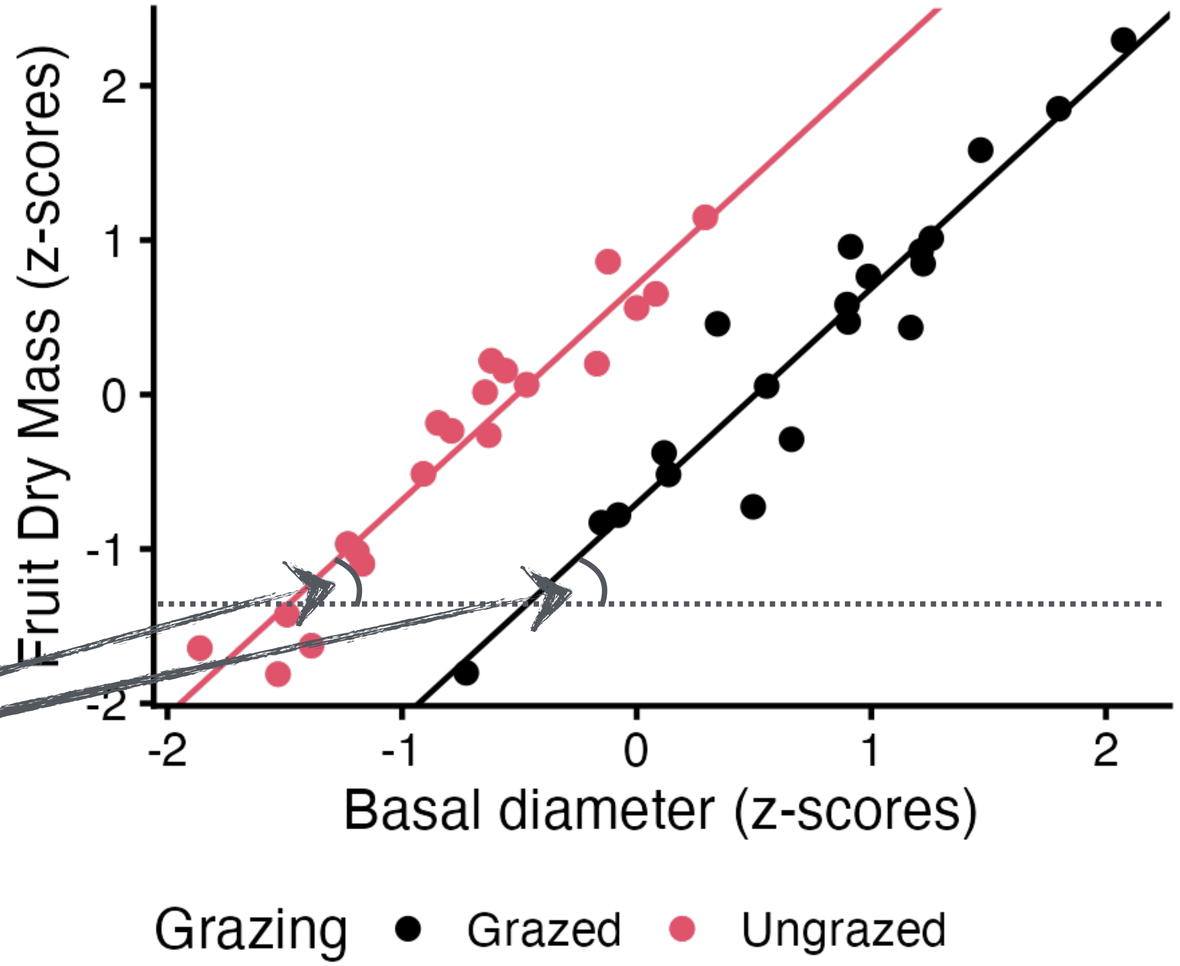
Model with treatment and size

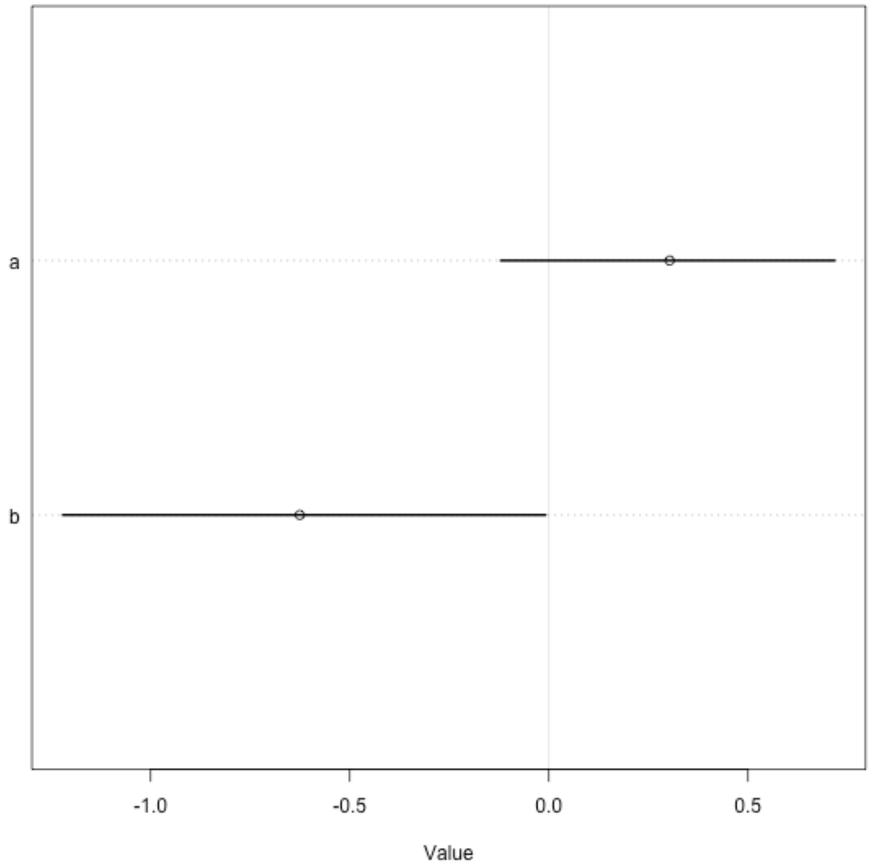
```
m2 = ulam(alist(
            Fruit ~ normal(mu, sigma),
            mu <- a + b*Grazing0 + c*Root,
            a ~ normal(0, 1),
            b ~ normal(0, 1),
            c ~ normal(0, 1),
            sigma ~ exponential(1)),
      data = df, chains = 4, cores = 4)
```

```
> precis(m2, prob = 0.95)
          mean   sd  2.5% 97.5%
a        -0.71 0.08 -0.86 -0.54
b         1.42 0.14  1.13  1.67
c         1.39 0.07  1.26  1.53
sigma     0.28 0.03  0.23  0.36
```



Comparing model estimates

$$y_i \sim N(\mu_i, \sigma)$$
$$\mu_i = \alpha + \beta x_i$$



$$y_i \sim N(\mu_i, \sigma)$$
$$\mu_i = \alpha + \beta_1 x_{i1} + \beta_2 x_{i2}$$