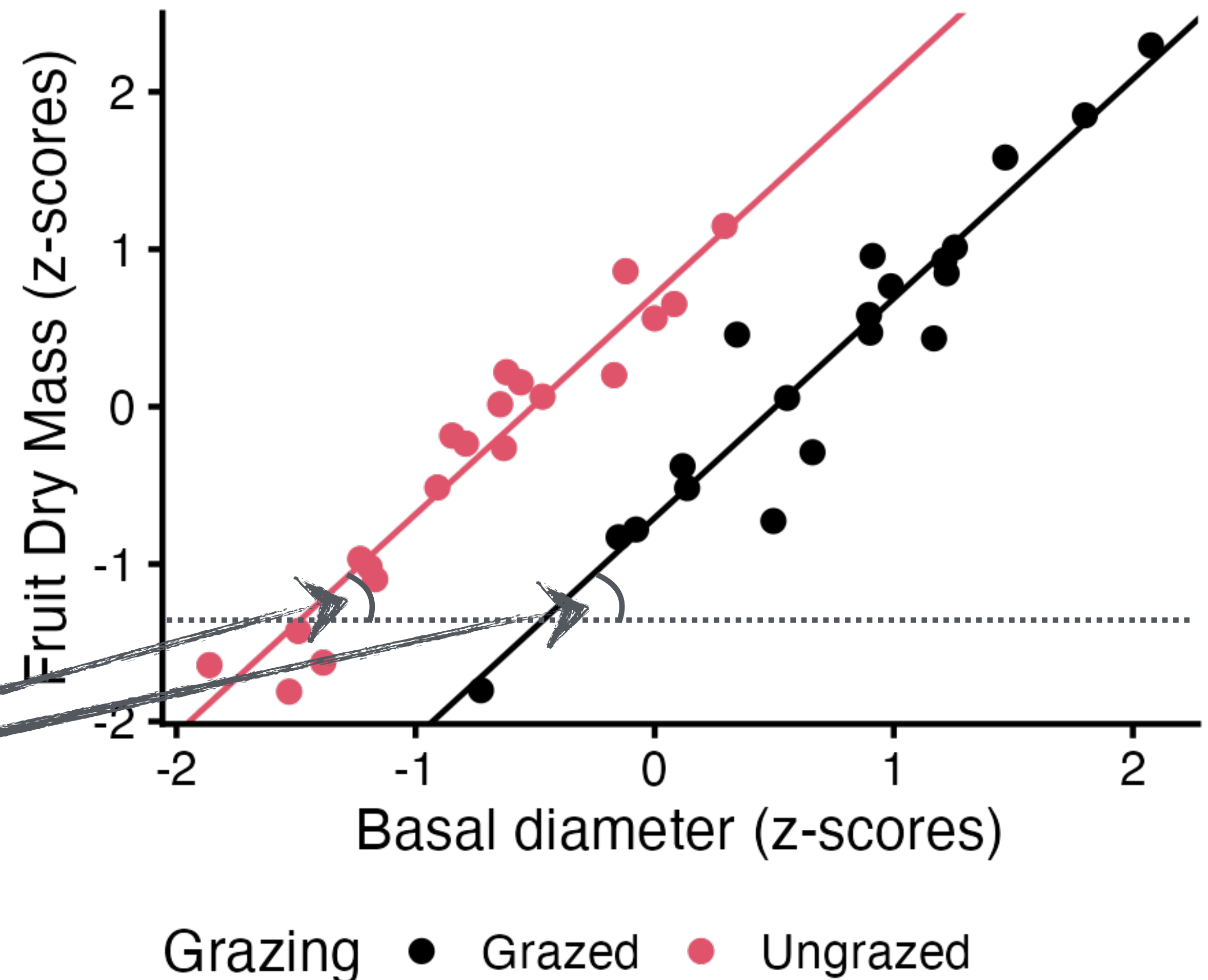


Model with treatment and size

```
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)
```

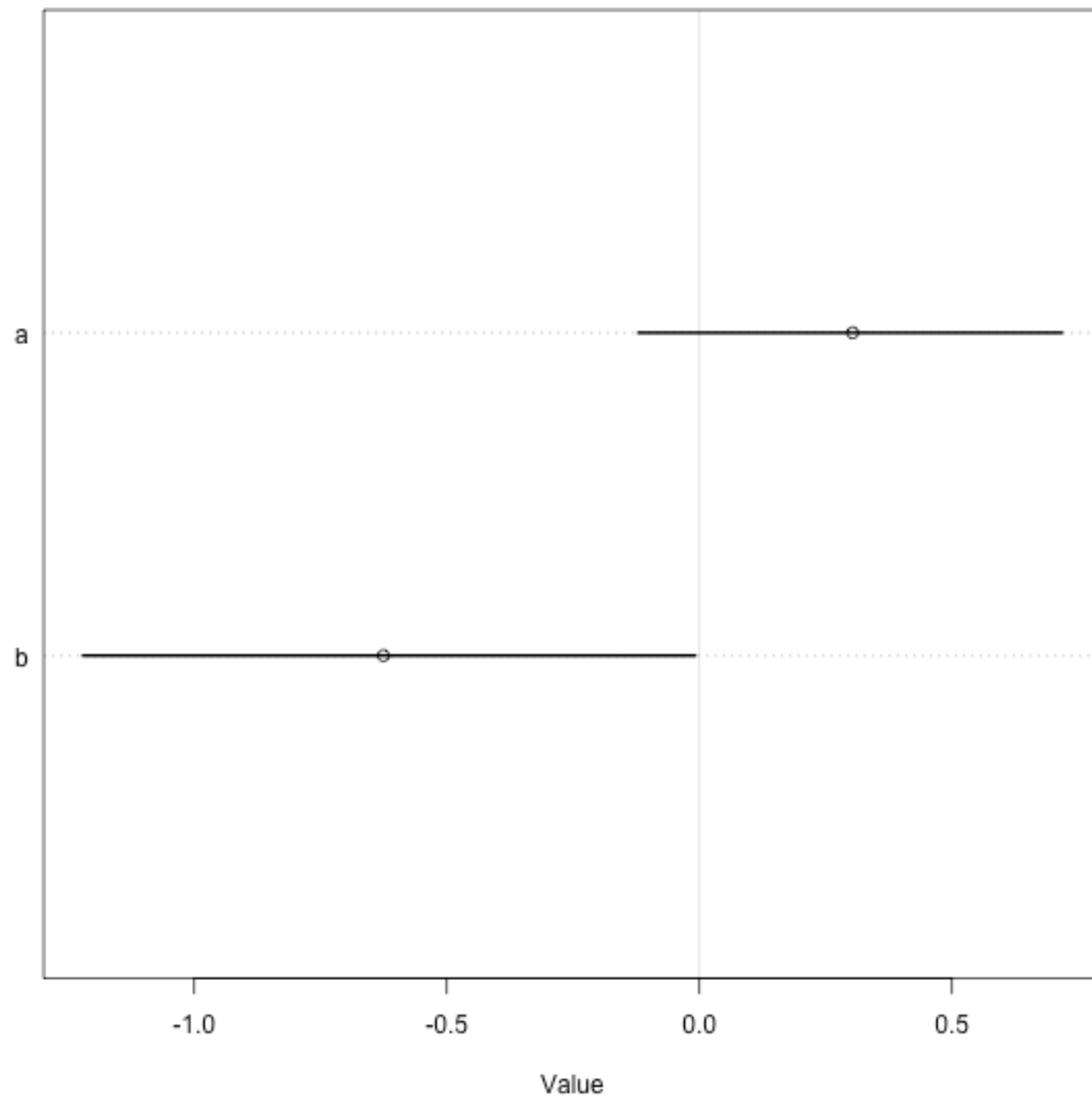
```
> precis(m2, prob = 0.95)  
      mean      sd 2.5% 97.5%  
a    -0.71  0.08 -0.86 -0.54  
b     1.42  0.14  1.13  1.67  
c     1.39  0.07  1.26  1.53  
sigma 0.28  0.03  0.23  0.36
```



Comparing model estimates

$$y_i \sim N(\mu_i, \sigma)$$

$$\mu_i = \alpha + \beta x_i$$



$$y_i \sim N(\mu_i, \sigma)$$

$$\mu_i = \alpha + \beta_1 x_{i1} + \beta_2 x_{i2}$$

