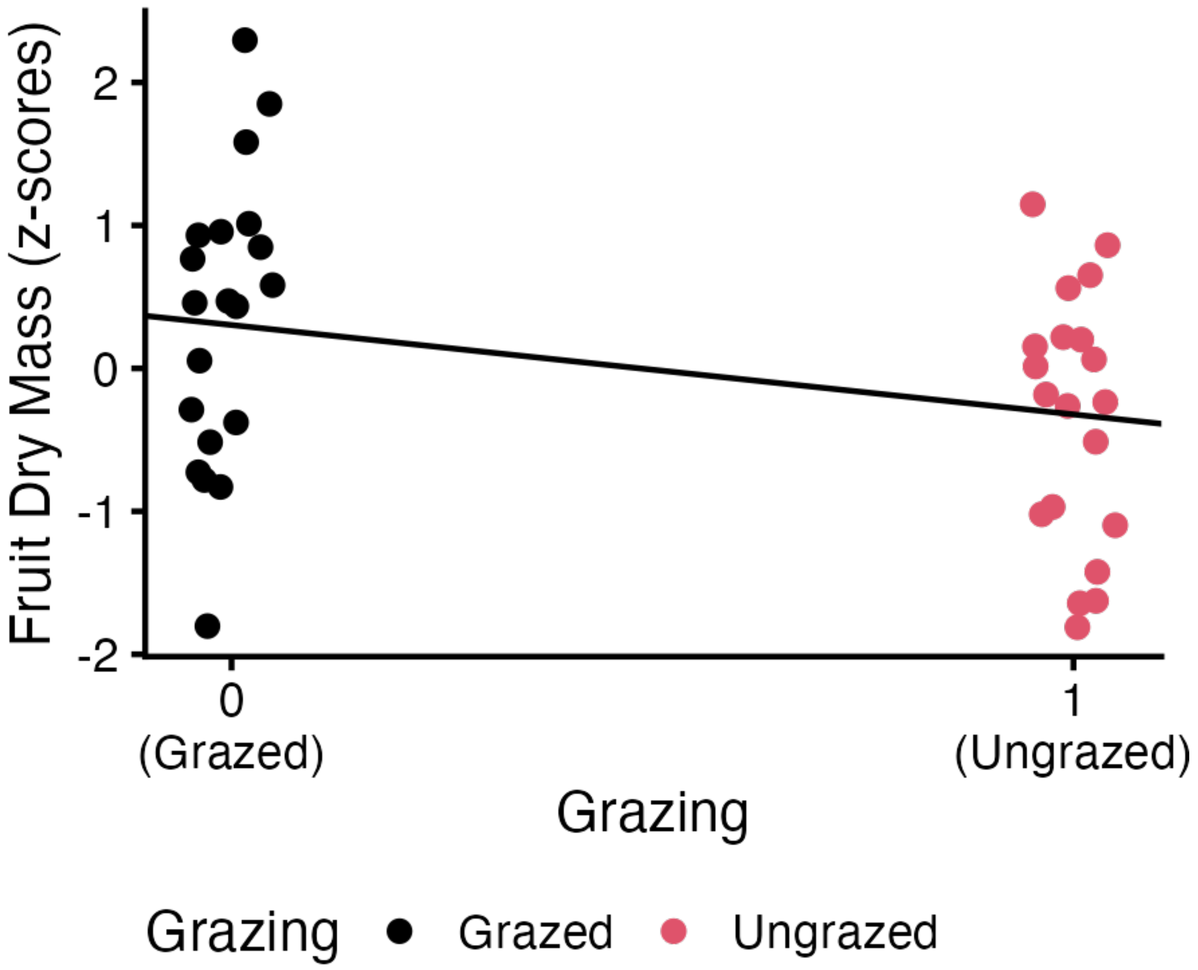
Model with only treatment

```
df$Grazing0 = ifelse(df$Grazing ==
"Ungrazed", 1, 0) # numeric coding

m1 = ulam(alist(Fruit ~ normal(mu, sigma),
            mu <- a + b*Grazing0,
            a ~ normal(0, 1),
            b ~ normal(0, 1),
            sigma ~ exponential(1)),
      data = df, chains = 4, cores = 4)
```

```
> precis(m1, prob = 0.95)
        mean   sd  2.5% 97.5%
a       0.32 0.21 -0.09  0.72
b      -0.66 0.30 -1.23 -0.06
sigma   0.97 0.12  0.77  1.22
```



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
```