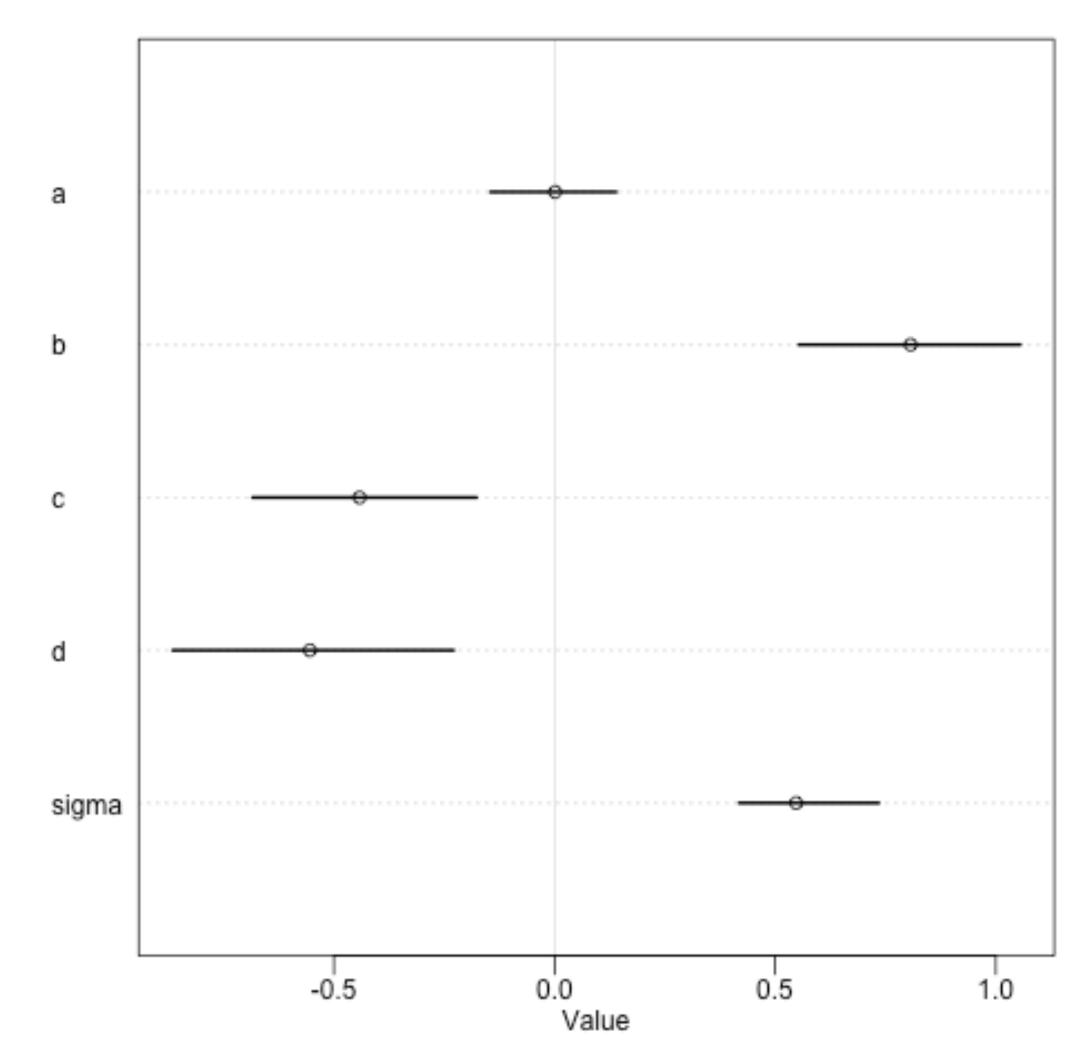
Model with interaction

```
Height_i \sim Normal(\mu_i, \sigma) \mu_i = a + b \ water_i + c \ shade + d \ water_i \times shade_i
```

```
data("tulips")
df = tulips
df$water = scale(df$water, scale = FALSE)
df$shade = scale(df$shade, scale = FALSE)
df$blooms = scale(df$blooms)
rt_fit = ulam(alist(blooms ~ normal(mu, sigma),
           mu <- a + b*water + c*shade + d*water*shade,
           a \sim normal(0, 0.1),
           b \sim normal(0, 1),
           c \sim normal(0, 1),
           d \sim normal(0, 1),
           sigma ~ exponential(1)),
        data = df, chains = 4, cores = 4)
```



Prediction lines

