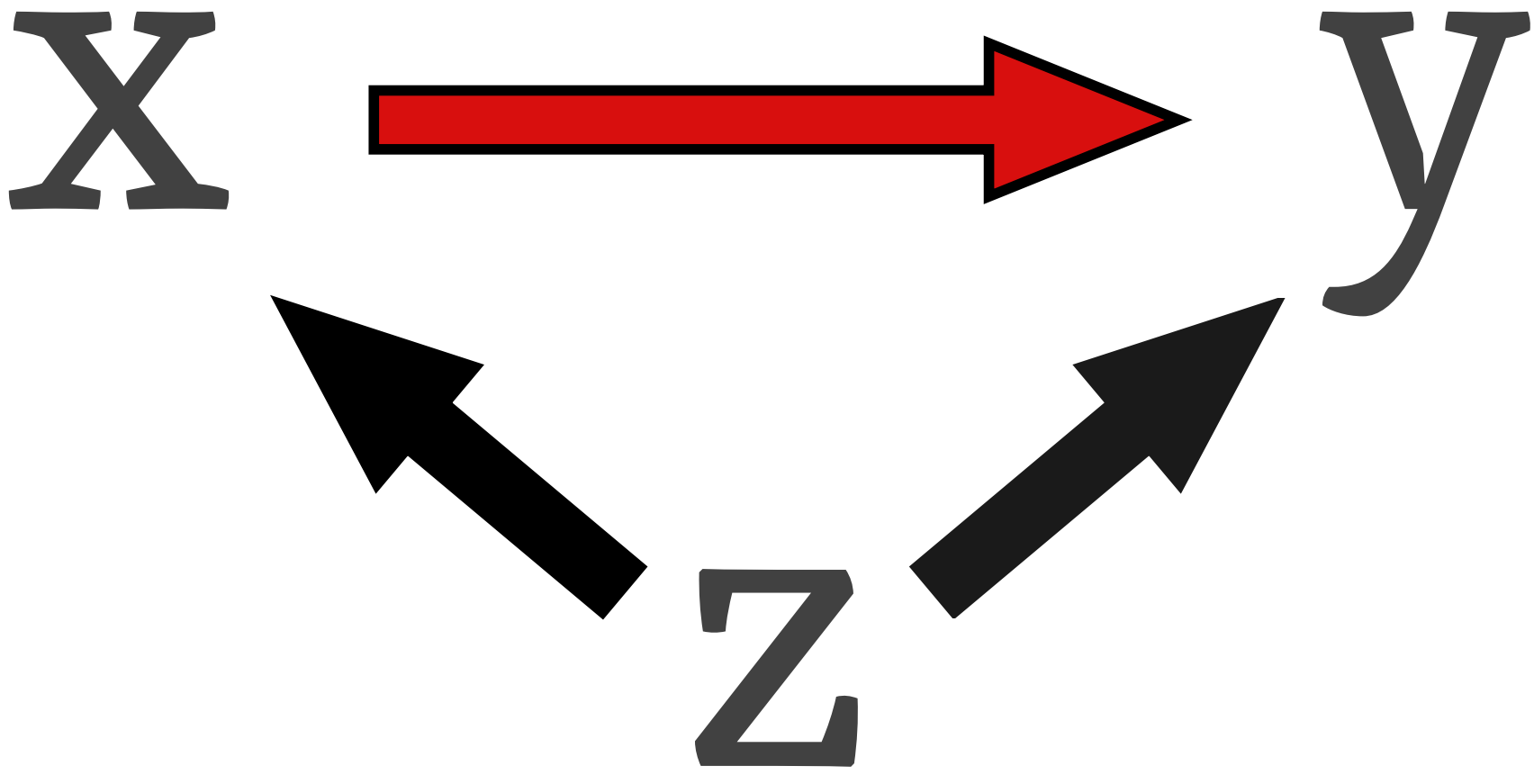
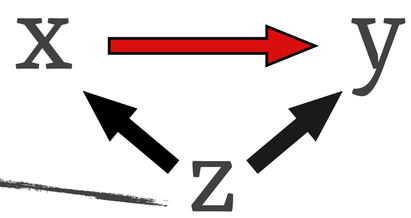
INCLUDING THE CONFOUNDER

```
m2 = ulam(alist(
    y ~ normal(a + bx*x + bz*z, sigma),
    a ~ normal(0, 0.3),
    bx ~ normal(0, 0.3),
    bz ~ normal(0, 0.3),    # New parameter for confounder
    sigma ~ exponential(1)
), data = list(y = y, x = x, z = z))
> precis(m2)
        mean   sd 5.5% 94.5% n_eff Rhat4
a       0.95 0.14 0.72  1.17   942     1
bx      1.06 0.10 0.91  1.22   837     1
bz      0.82 0.12 0.62  1.02   889     1
sigma   1.09 0.08 0.97  1.22  1200     1
```


x
y
z

INCLUDING THE CONFOUNDER

```
m2 = ulam(alist(
    y ~ normal(a + bx*x + bz*z, sigma),
    a ~ normal(0, 0.5),
    bx ~ normal(0, 0.3),
    bz ~ normal(0, 0.3),    # New parameter for confounder
    sigma ~ exponential(1)
), data = list(y = y, x = x, z = z))
> precis(m2)
        mean   sd 5.5% 94.5% n_eff Rhat4
a       0.95 0.14 0.72  1.17   942     1
bx      1.06 0.10 0.91  1.22   837     1
bz      0.82 0.12 0.62  1.02   889     1
sigma   1.09 0.08 0.97  1.22  1200     1
```



POSTERIOR DISTRIBUTION OF β_{xy} WITH THE CONFOUNDER