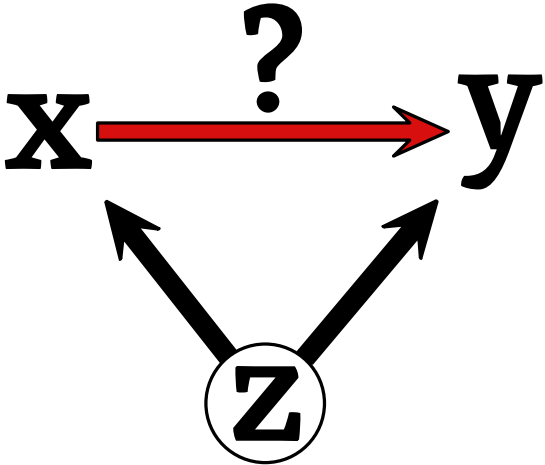


Statistical models with nonfounders

Code

```
N = 200
z = rbinom(N, 1, 0.5)
x = rnorm(N, 1 + z)
y = rnorm(N, 1 + 0.5*x + 2*z)
m1 = lm(y ~ x)
```





X



y

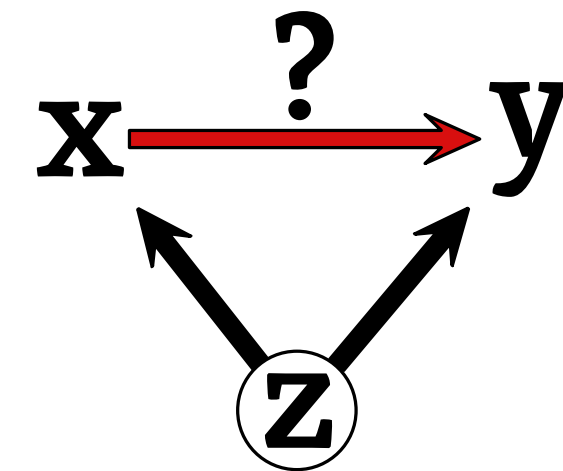


Statistical model without the confounder z

Code

```
N = 200  
z = rbinom(N, 1, 0.5)  
x = rnorm(N, 1 + z)  
y = rnorm(N, 1 + 0.5*x + 2*z)  
m1 = lm(y ~ x)
```

x → y



Model estimates without the confounder

```
> (pm1 = precis(m1))  
              mean    sd 5.5% 94.5%  
(Intercept) 1.18 0.16 0.93 1.43  
x            0.94 0.08 0.82 1.06
```

