

Model estimates with 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 |
|---|------|------|------|------|

Simulation R code

```
N = 200
```

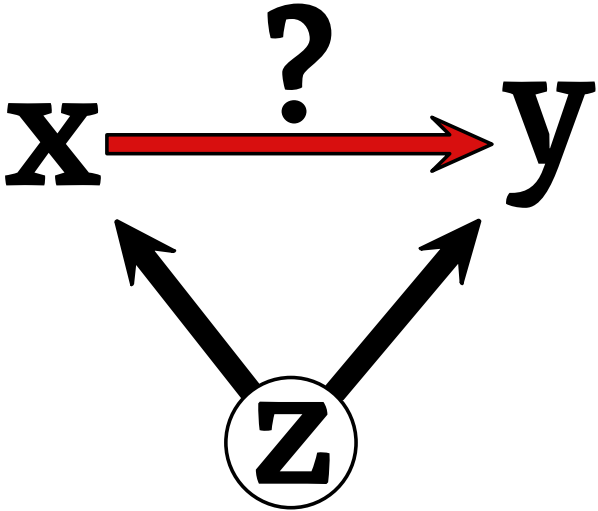
```
z = rbinom(N, 1, 0.5)
```

```
x = rnorm(N, 1 + z)
```

```
y = rnorm(N, 1 + 0.5*x + 2*z)
```







X



y

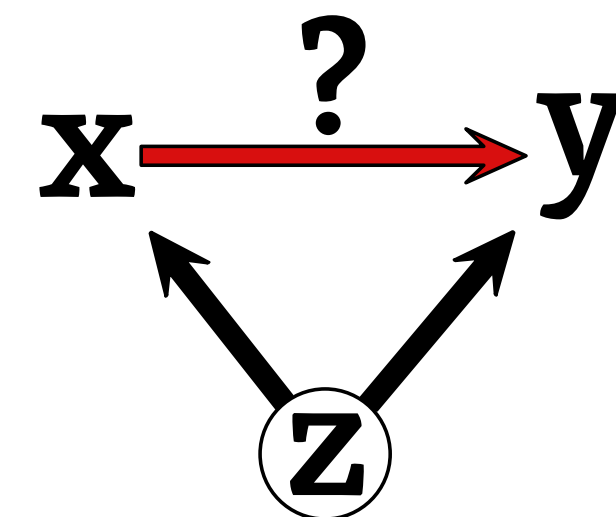
Model estimates without the confounder

```
> (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
```



Simulation R code

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



Estimate of the effect of x on y without the confounder

$x \rightarrow y$

