

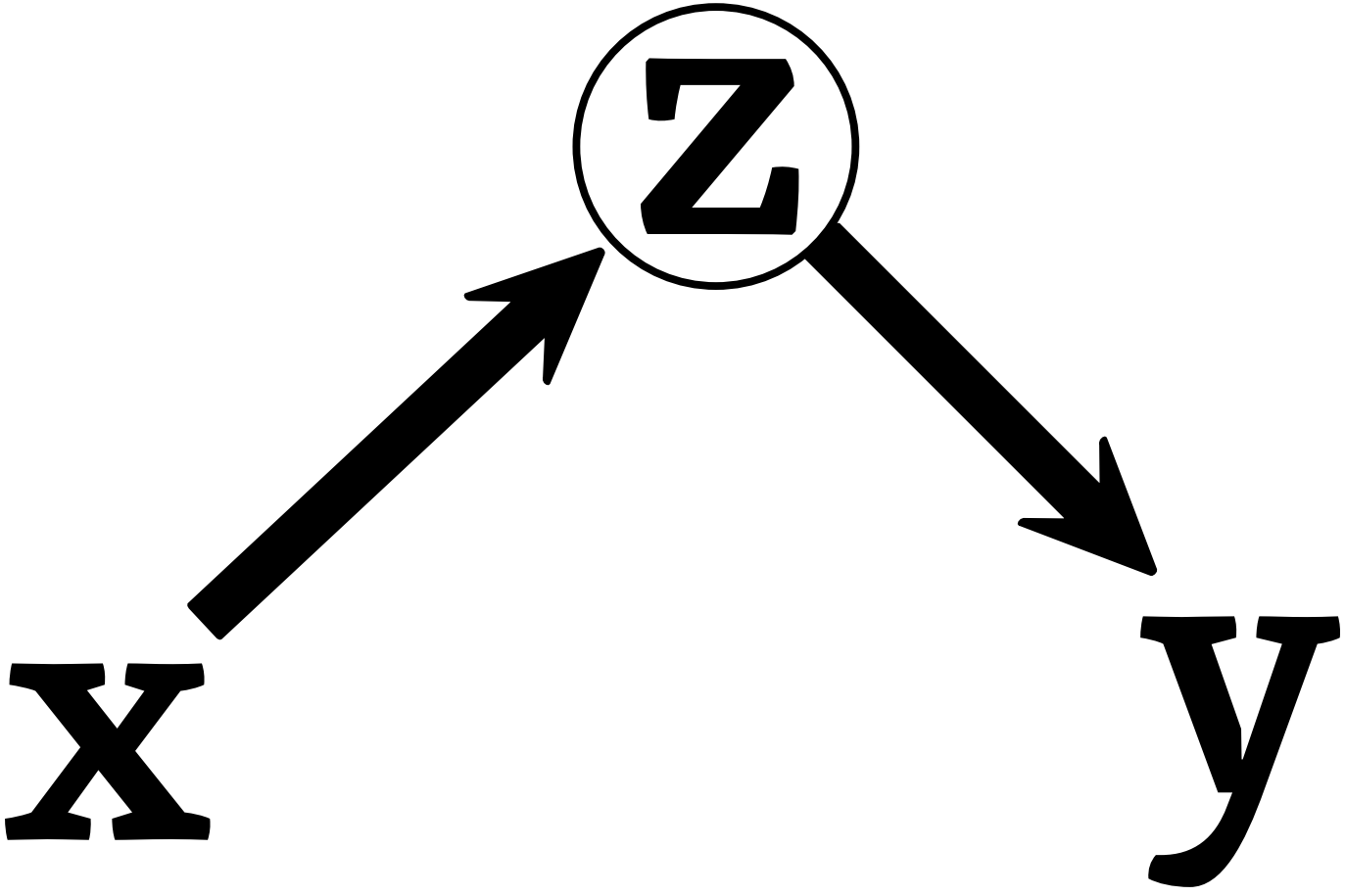
All of the effect is mediated by z

```
N = 200
```

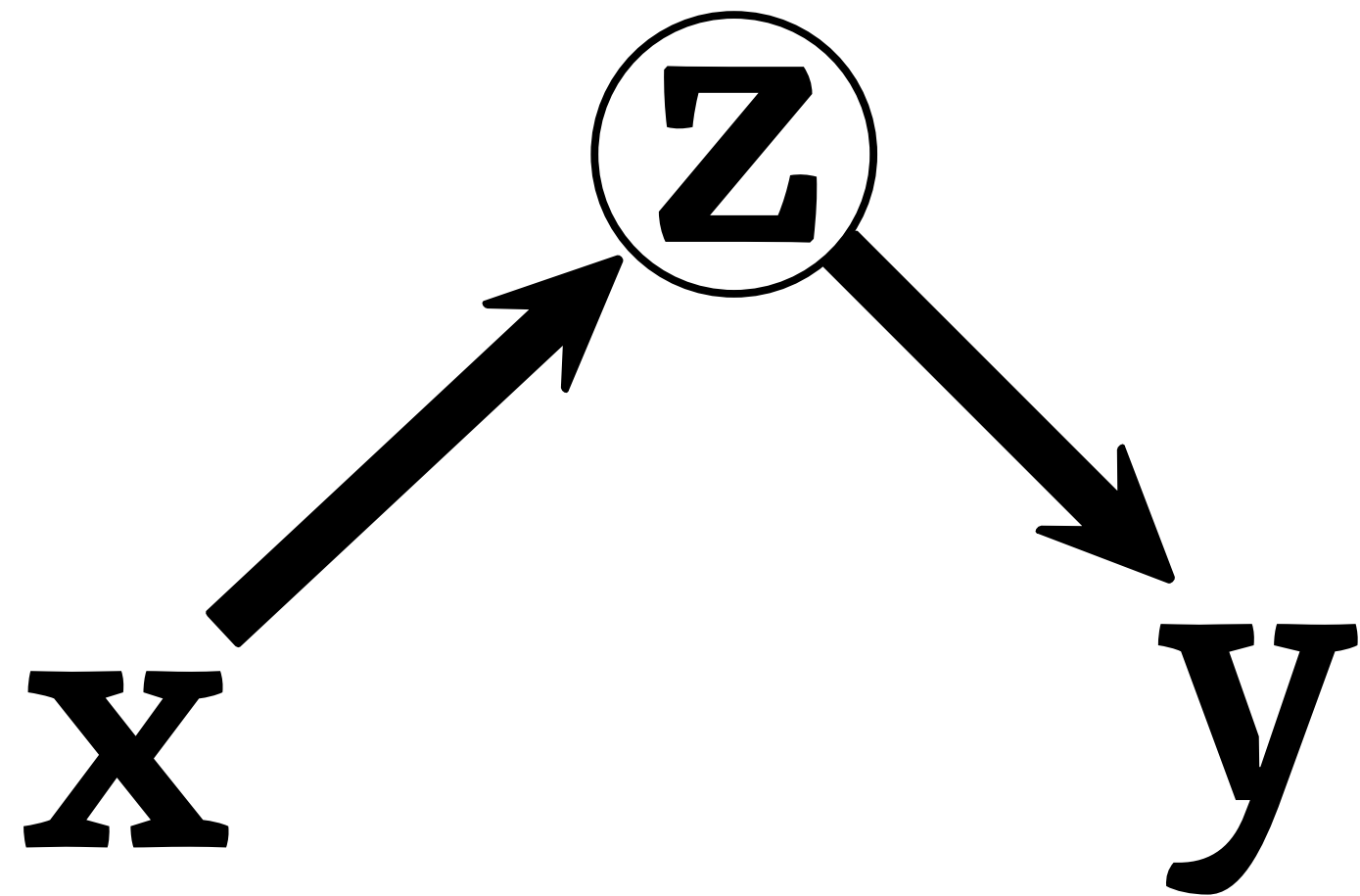
```
x = rnorm(N) # x ~ normal(0, 1)
```

```
z = rbinom(N, 1, inv_logit(x)) # z ~ bernoulli(invlogit(x))
```

```
y = rnorm(N, 1 + 2*z) # y ~ normal(1 + 2z, 1)
```



All of the effect is mediated by z



```
N = 200
x = rnorm(N)                    # x ~ normal(0, 1)
z = rbinom(N, 1, inv_logit(x)) # z ~ bernoulli(invlogit(x))
y = rnorm(N, 1 + 2*z)           # y ~ normal(1 + 2z, 1)
```

Model without the mediator

$x \rightarrow y$

