

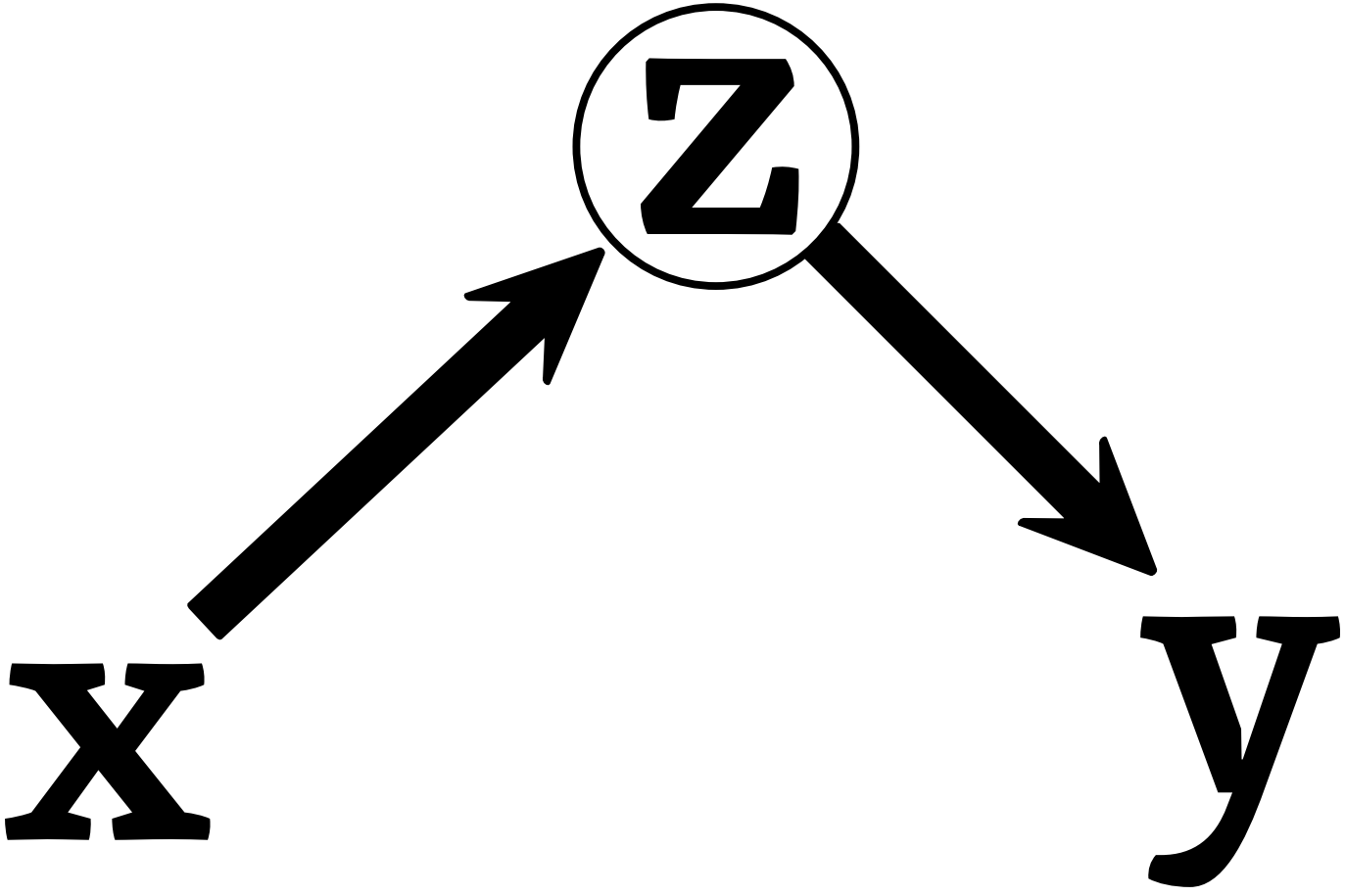
All of the effect is mediated by z

```
N = 200
```

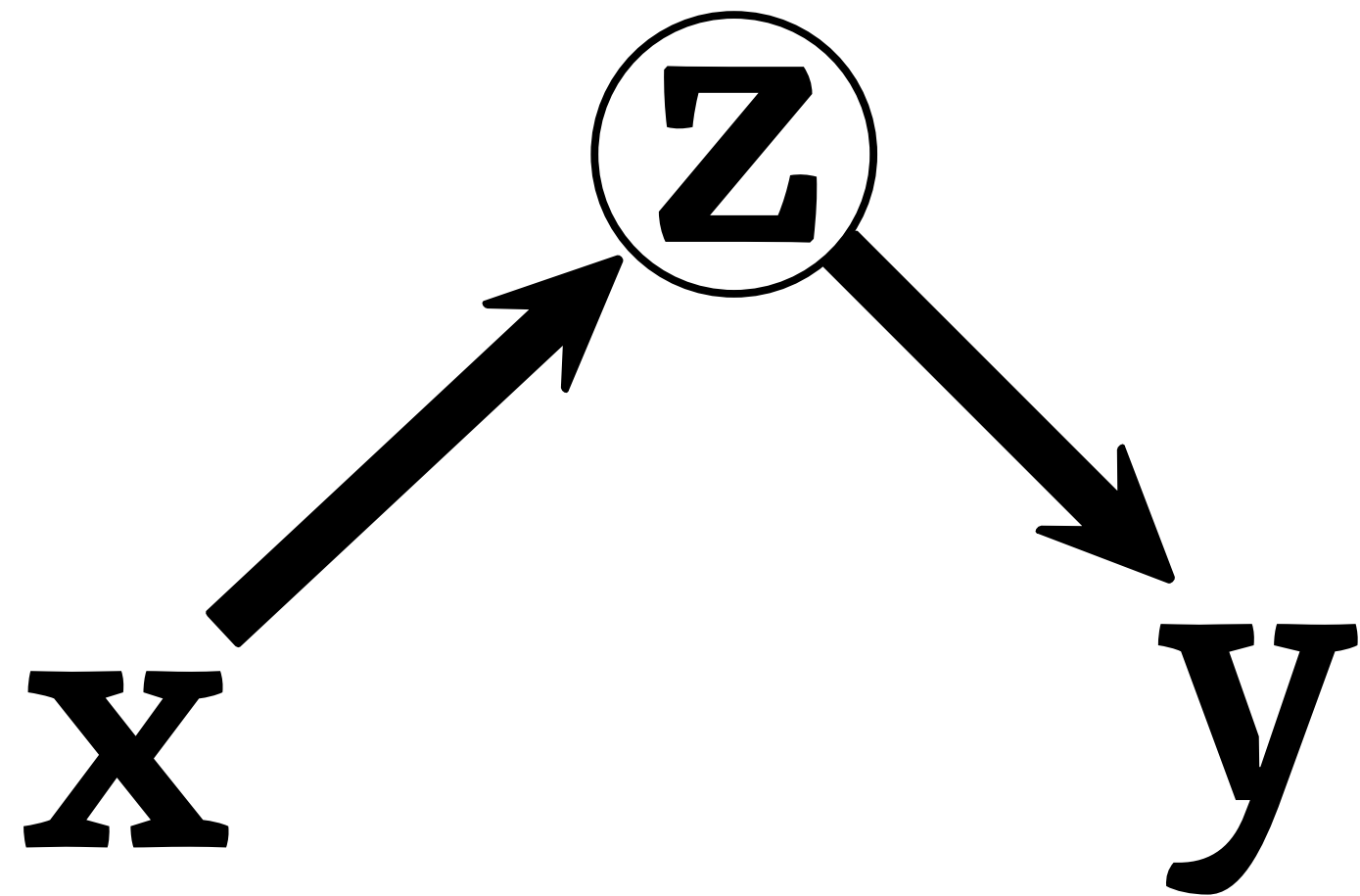
```
x = rnorm(N)           # x ~ normal(0, 1)
```

```
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



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x = rnorm(N)                    # x ~ normal(0, 1)
z = rbinom(N, 1, inv_logit(x)) # z ~ bernoulli(invlogit(x))
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```

Model without the mediator

$x \rightarrow y$

