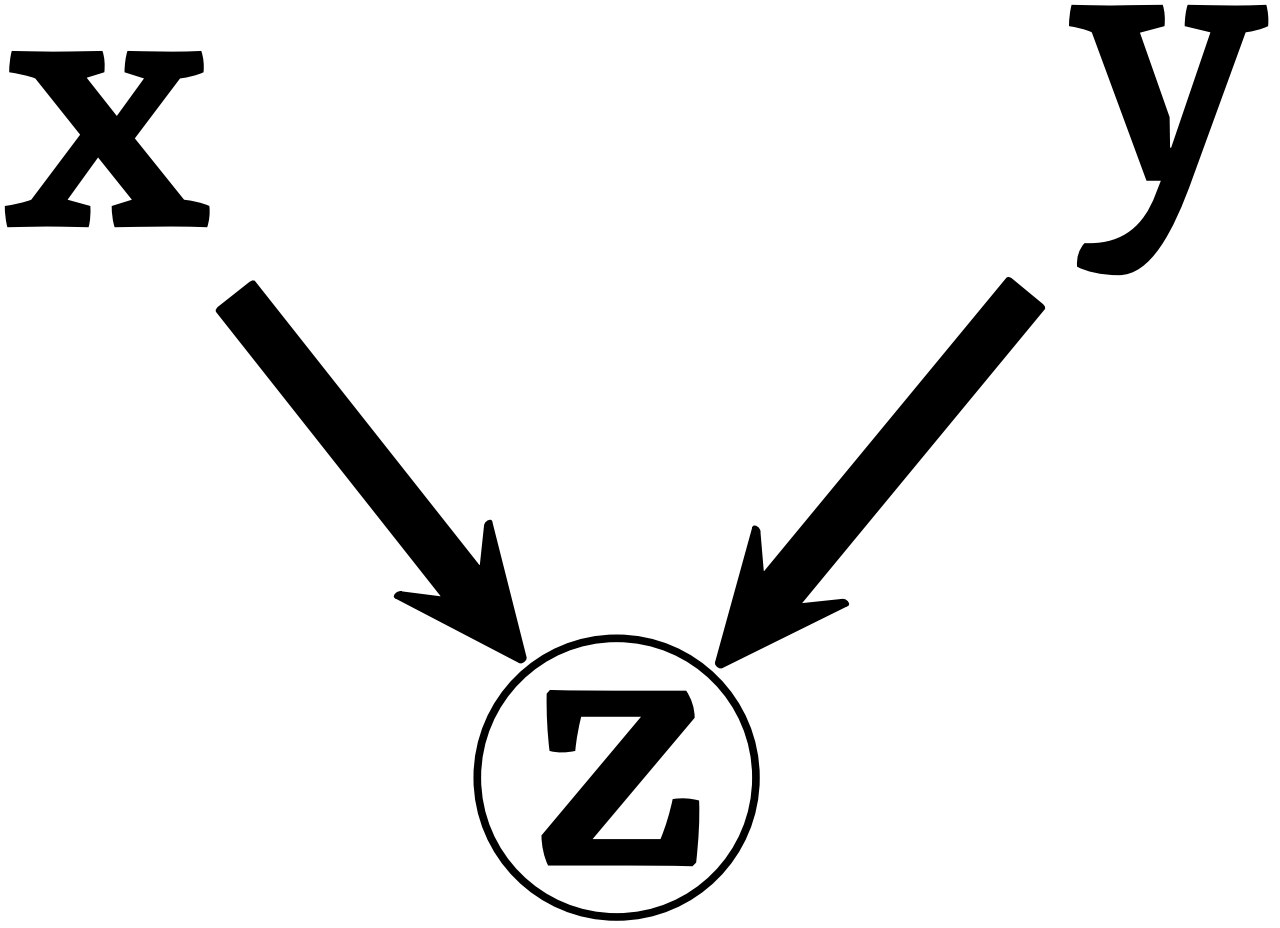


No effect of x on y , but both affect z



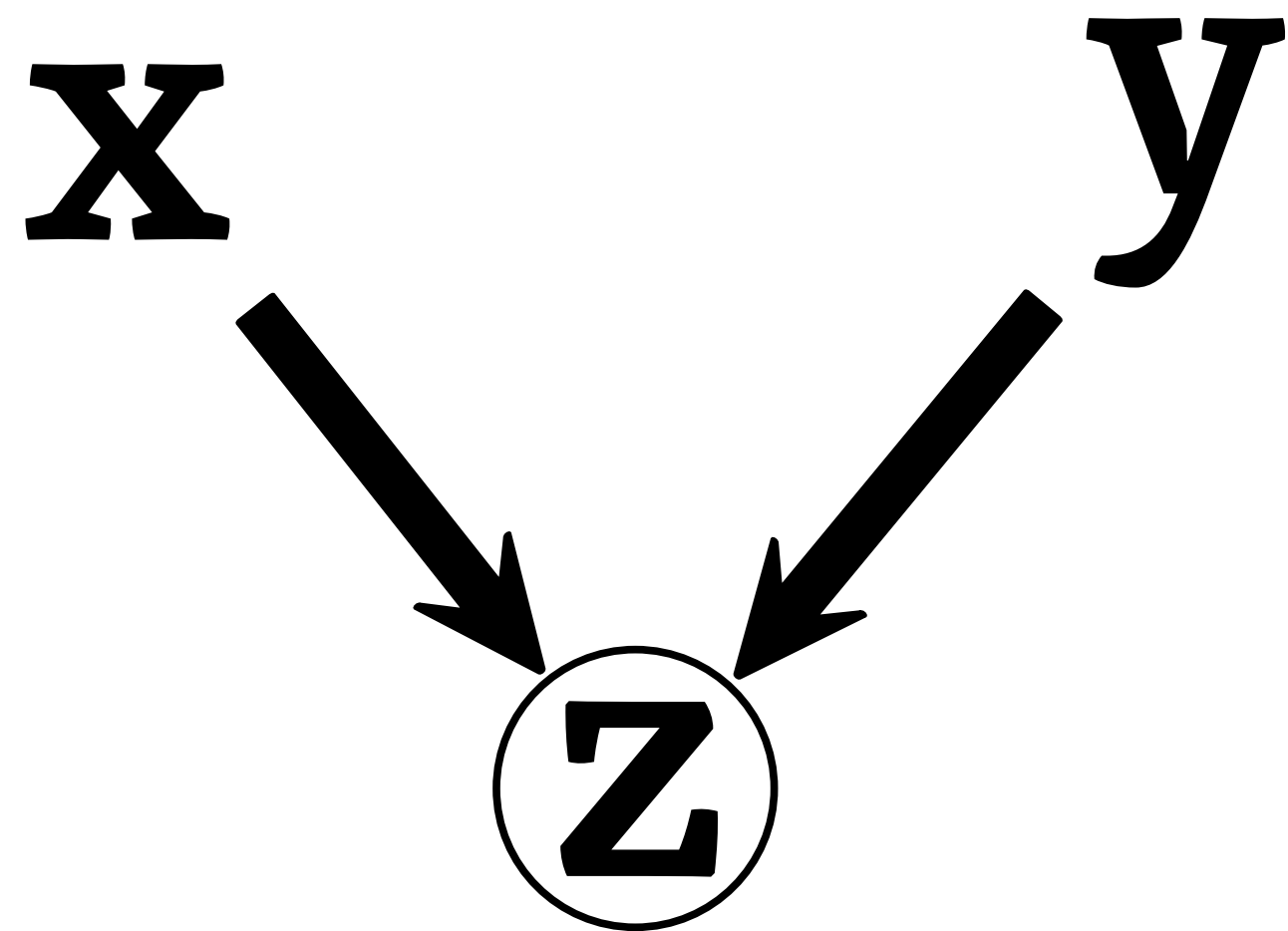
Math

$$y \sim \text{Normal}(0, 1)$$

$$x \sim \text{Normal}(0, 1)$$

$$z \sim \text{Bernoulli}(\text{logit}^{-1}(2x + 2y - 2))$$

No effect of x on y , but both affect z



Math

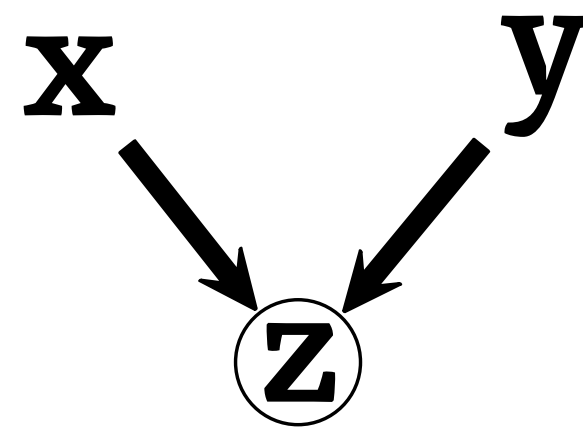
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No effect of x on y, but both affect z

```
set.seed(1)
N = 200
x = rnorm(N)
y = rnorm(N)
z = rbinom(N, 1, inv_logit(2*x + 2*y - 2))
```



```
m1 = lm(y ~ x)
```

```
> (pm1 = precis(m1))
```

	mean	sd	5.5%	94.5%
(Intercept)	0.04	0.07	-0.07	0.16
x	-0.02	0.08	-0.15	0.10

