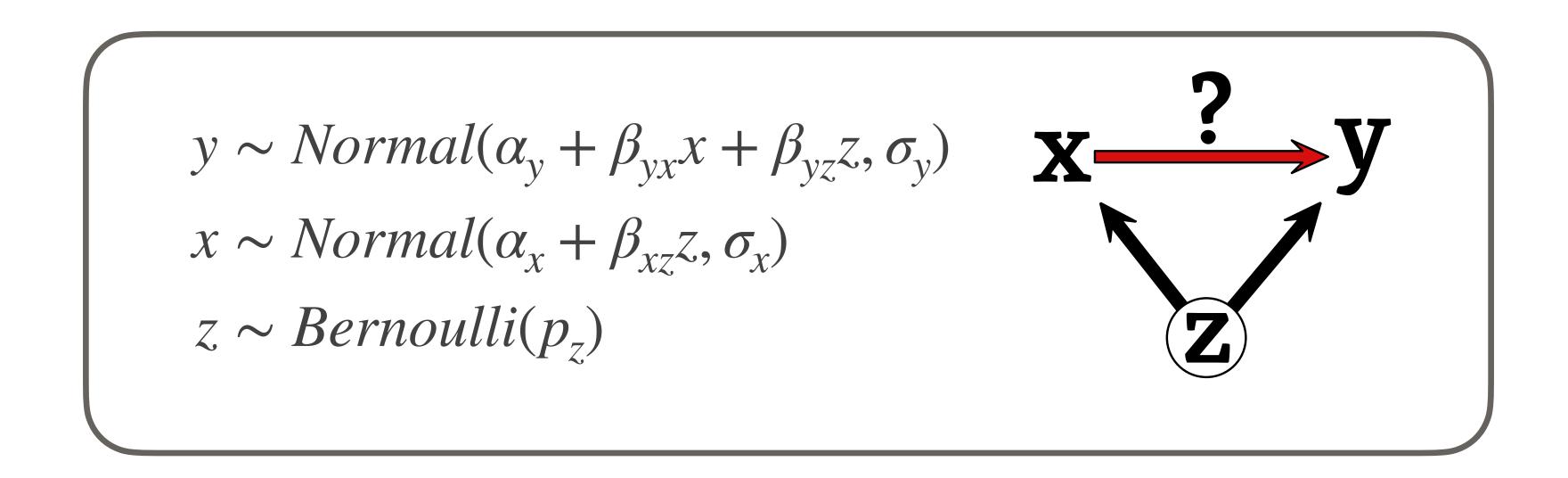
Simulating a shared cause

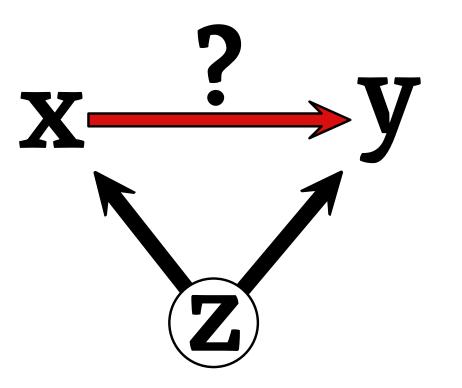
- Every DAG implies a causal relation between variables.
- We can use distributions to simulate the generative model implied by this DAG:



Simulating a shared cause

Math

```
y \sim Normal(\mu = 1 + 0.5x + 2z, \sigma = 1)x \sim Normal(\mu = 1 + z, \sigma = 1)z \sim Bernoulli(p = 0.5)
```



R Code