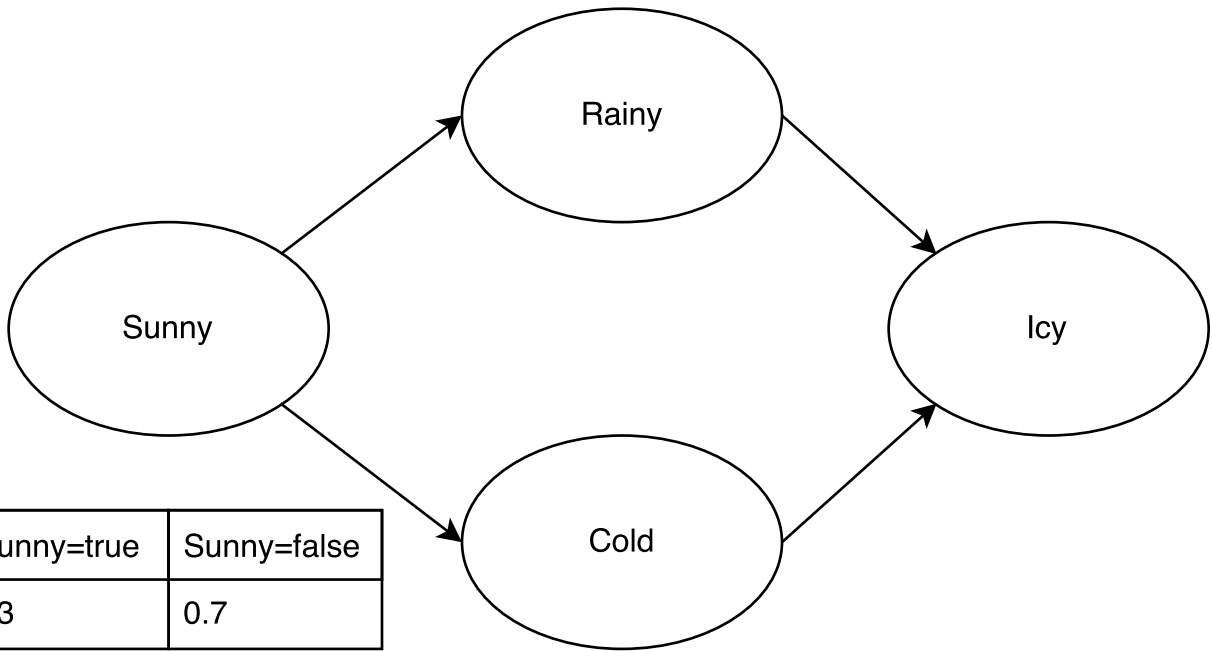


Sunny	Rainy=True	Rainy=False
True	0.05	0.95
False	0.6	0.4



Rainy	Cold	Icy=true	Icy=False
True	True	0.9	0.1
True	False	0.4	0.6
False	True	0.5	0.5
False	False	0.1	0.9

Sunny=true	Sunny=false
0.3	0.7

Sunny	Cold=True	Cold=False
True	0.2	0.8
False	0.5	0.5

If it is known that it is not sunny:

$$P(\text{Icy}=\text{True}) = (0.6 \times 0.5 \times 0.9) + (0.6 \times 0.5 \times 0.4) + (0.4 \times 0.5 \times 0.5) + (0.4 \times 0.5 \times 0.1) = 0.51$$

$$P(\text{Icy}=\text{False}) = (0.6 \times 0.5 \times 0.1) + (0.6 \times 0.5 \times 0.6) + (0.4 \times 0.5 \times 0.5) + (0.4 \times 0.5 \times 0.9) = 0.49$$