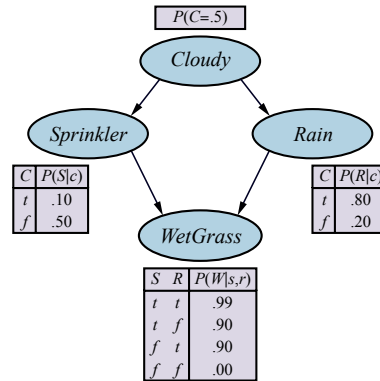


# Bayesian Networks Review

## Artificial Intelligence



- Given the following Bayes' net:

What is the probability that the grass is wet, the sprinkler didn't run, it rained recently, and it is cloudy?

- Elsa is unlikely to chew up slippers,  $P(ElsaChews) = 0.1$ , Anna is more likely,  $P(AnnaChews) = 0.3$ . If the slippers are chewed, whether she or her sister did it, Elsa is likely to go into her crate and look concerned,  $P(ElsaConcerned | SlippersChewed) = 0.8$ . If you were constructing a Bayesian network, in which topological order would you include the variables *ElsaConcerned*, *SlippersChewed*, *ElsaChews*, *AnnaChews*?

