

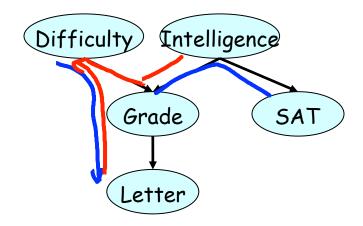
Representation

Bayesian Networks

Flow of Probabilistic Influence

When can X influence Y?

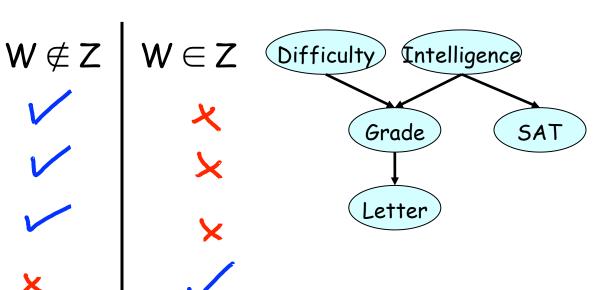
condition on v changer belief asbety



Active Trails

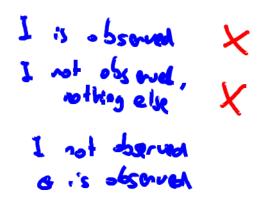
• A trail $X_1 - ... - X_n$ is active if: it has no v-structures $X_{i-1} \to X_i \leftarrow X_{i+1}$

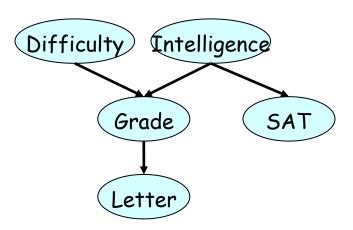
When can X influence Y Given evidence about Z



When can X influence Y given evidence about Z

• S - I - G - D allows influence to flow when:





Active Trails

- A trail $X_1 ... X_n$ is active given Z if:
- have that X_i or one of its descendants $\in Z_i$
 - no other Xi is in Z