

Royal Institute of Technology

DGM TERMINOLOGY EXAMPLE

TERMINOLOGY

- ★ Parent
- ★ Child
- ★ Family
- ★ Root
- ★ Leaf
- **★**Neighbors

TERMINOLOGY

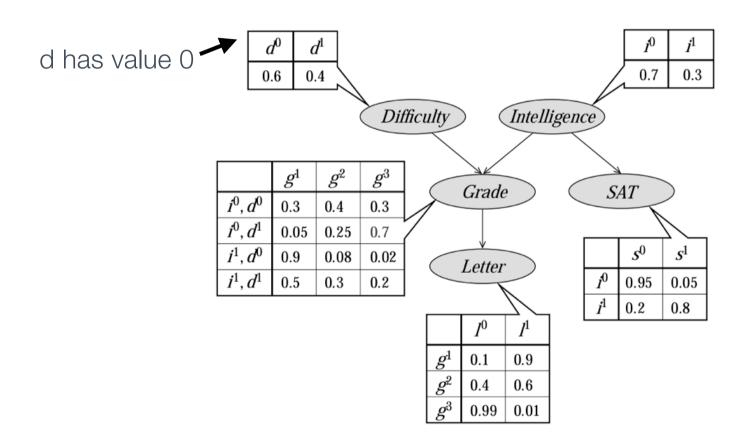
- ★ Degree (in and out)
- ★ Path (directed or not)
- ★ Cycle (directed or not)
- ★ Directed Acyclic Graph (DAG)
- ★ Topological order (parents < child)
- *Ancestors

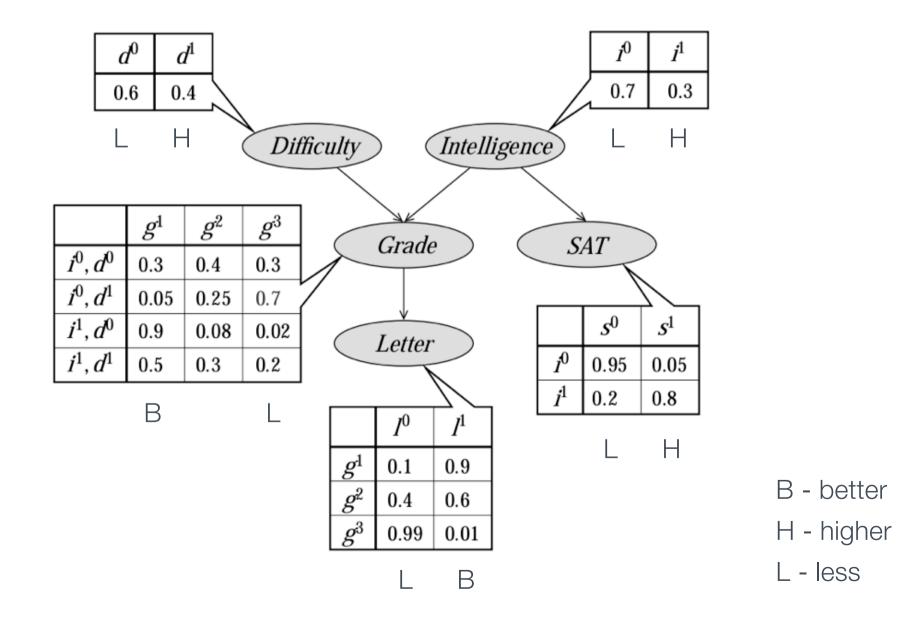
CPD - BERNOULLI OR CATEGORICAL

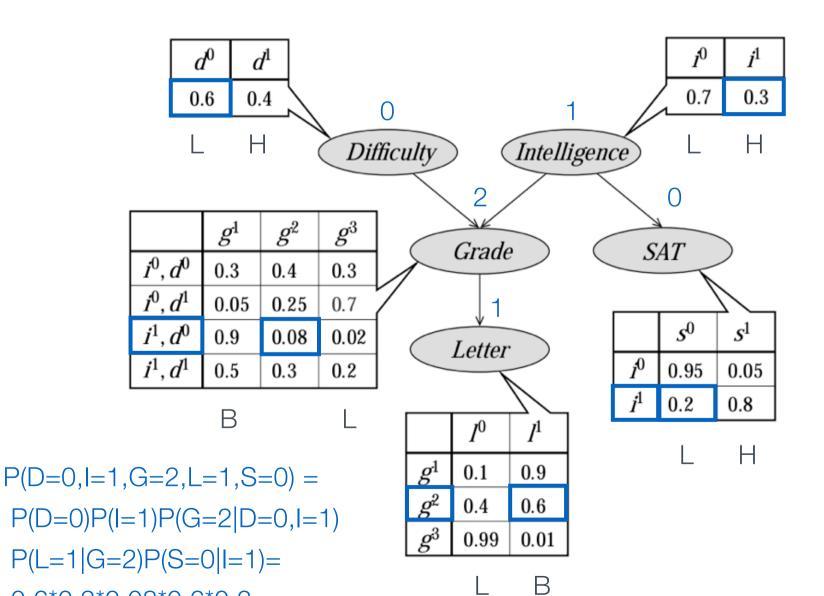
$$Ber(x|\theta) = \begin{cases} \theta & \text{if } x = 1\\ 1 - \theta & \text{if } x = 0 \end{cases} \qquad Cat(x|\theta) = \theta_x$$

- ★ One or several (unordered) coin tosses
- ★ A dice (usually biased)

NOTATION







0.6*0.3*0.08*0.6*0.2

B - better

H - higher

L - less

