Inference

- $A \rightarrow C \leftarrow B : \Pr(A = 0) = 0.4, \Pr(B = 0) = 0.5$
- $\Pr(A, B \mid C)$?
- $\Pr(A \mid C), \Pr(B \mid C)$?

A	B	Pr(C | A, B)
0	0	0.3
0	1	0.25
1	0	0.35
1	1	0.1

Final Review

- Midterm (search algorithms) still covered!
  - See Week 5 discussion slides, will not covered in this discussion
  - https://web.cs.ucla.edu/~weightzero/teaching/CS161-23W#week-5-discussion-slides-midterm-review
- Propositional logic
  - Knowledge base
  - Property, calculation
  - Resolution, Horn clauses
- First order logic
  - Knowledge base representation
  - Property, calculation, unification, Skolemization
  - Resolution
- Reasoning with uncertainty
- Bayesian Networks
  - Representation
  - Independence (Local topology, Markov blanket)
  - Reasoning, inference