

Slide 3

## Recap — Course Goals

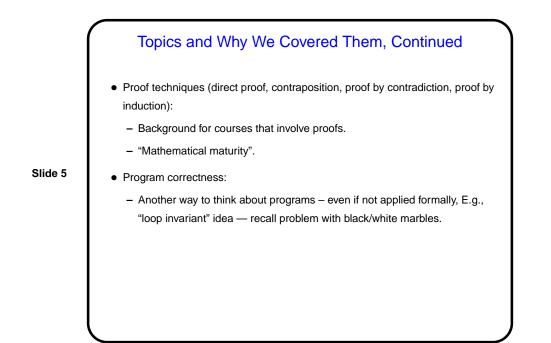
- For CS majors, learn math needed for later courses. Something of a "grab bag" of topics, but you probably *will* see some of this material again. For non-CS majors, introduction to some math you might otherwise not encounter.
- Increase "mathematical maturity" in part, this is the ability to think logically, especially valuable to people in CS (also other science, engineering, math), but good for others too.
- A recurring theme is to take something that might be difficult to think through from first principles and turn it into a symbol-manipulation problem.

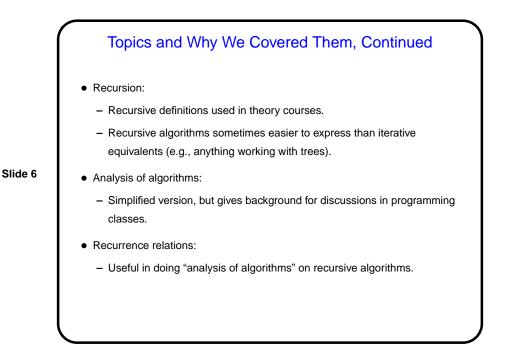
## Topics and Why We Covered Them

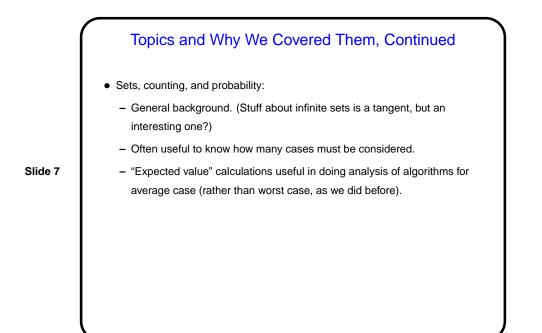
- Formal logic:
  - Understanding connectives/tautologies related to simplifying boolean expressions, e.g., in programs.
  - Example of "formal system" CS people will deal with others, e.g., formal grammars (basis for compilers, e.g.).
  - "Mathematical maturity".

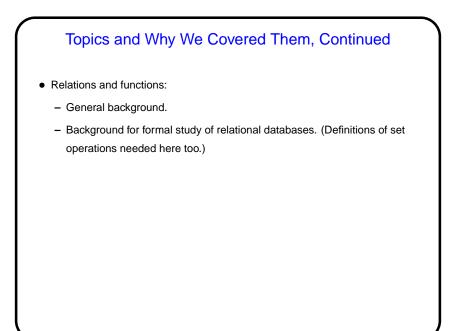
(Aside: Dr. Myers recommends that CS majors consider a symbolic logic course as one of your math electives. Students who take it seem to find it worthwhile.)

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