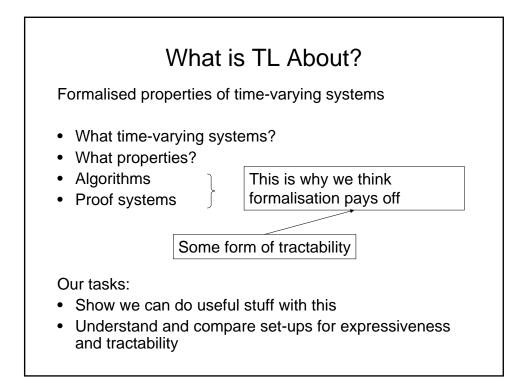
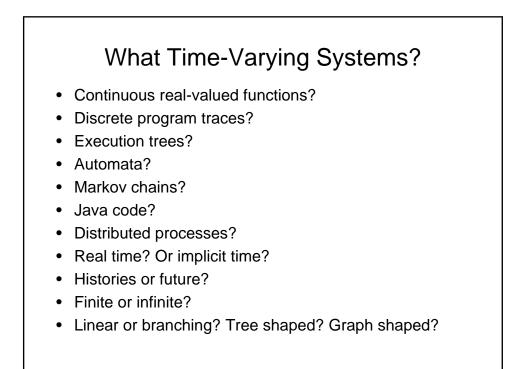
Introduction to Temporal Logic

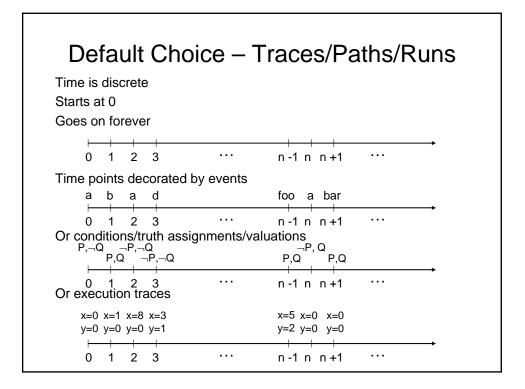
Mads Dam Theoretical Computer Science KTH, 2009

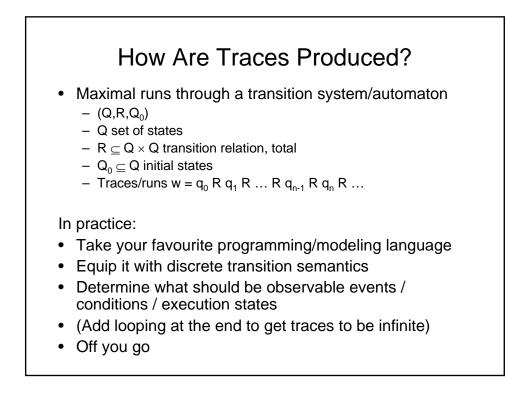
About the Course

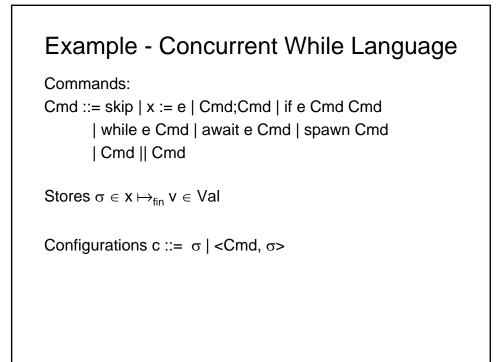
- Lecturers
- Content
- Examination
- Lecture material
- Registration

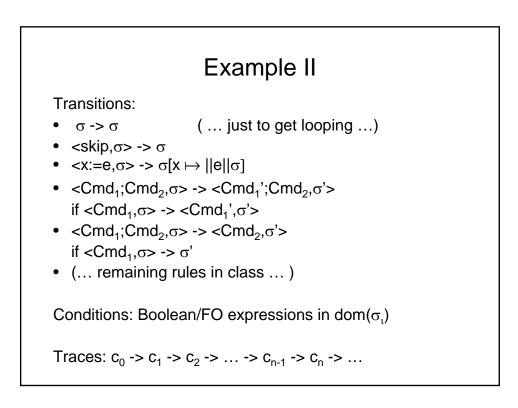


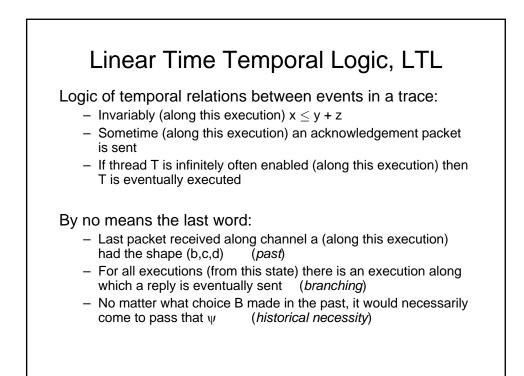


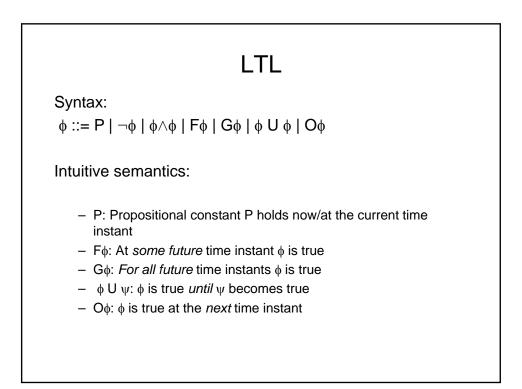


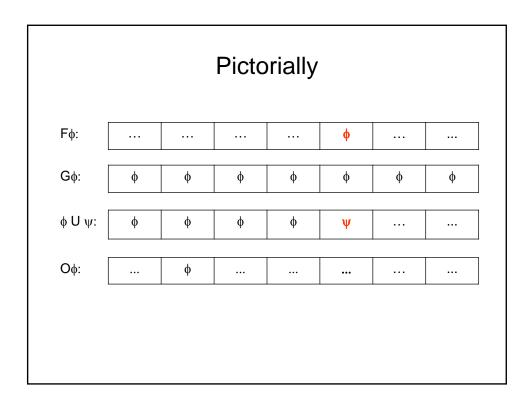


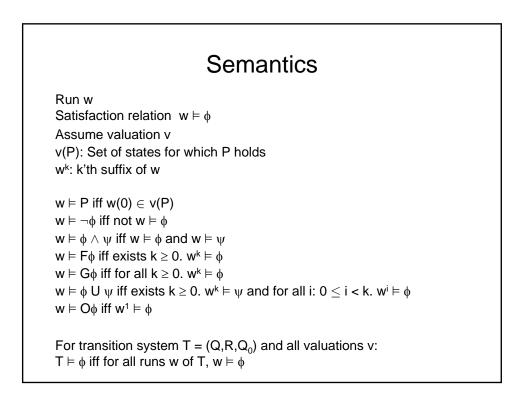


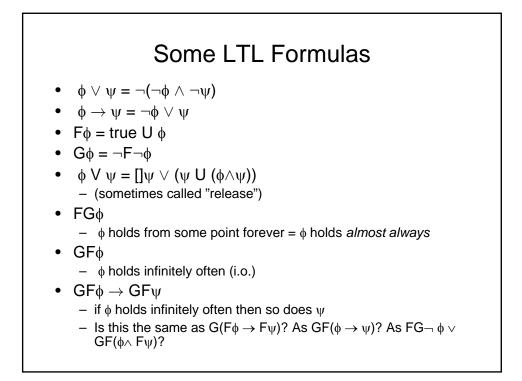


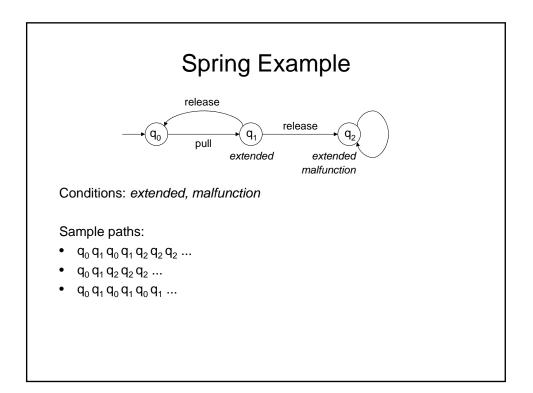


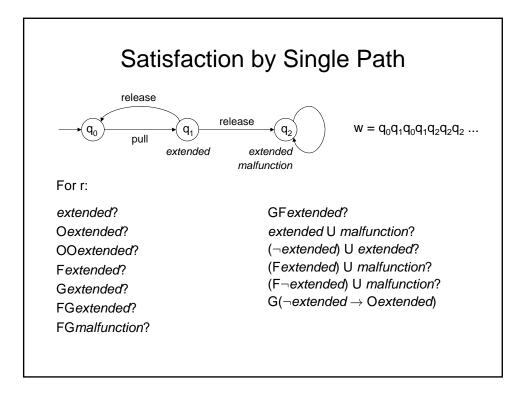


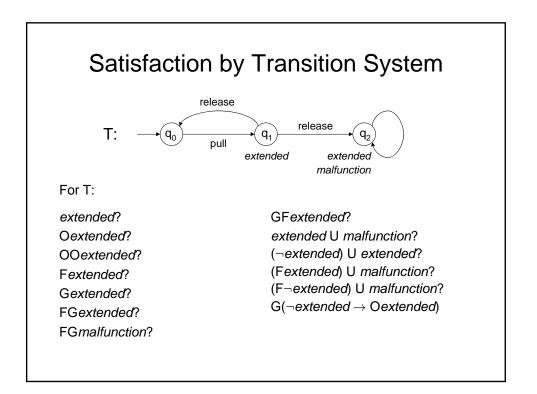


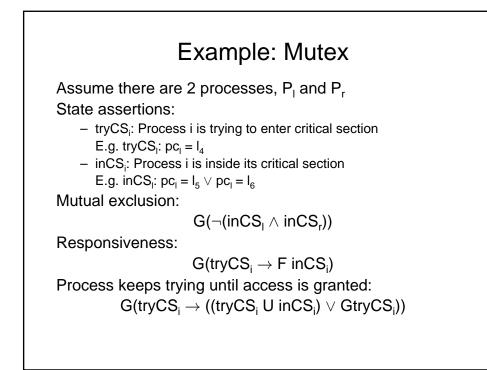


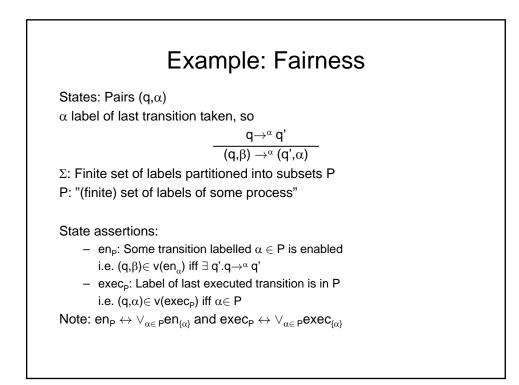


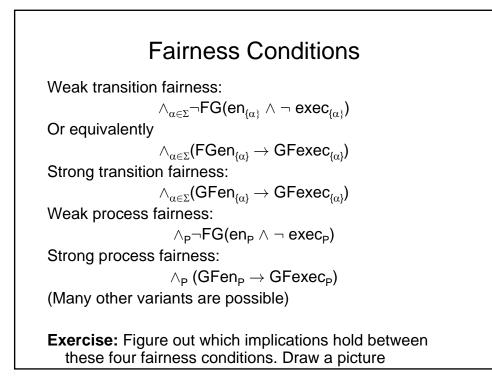


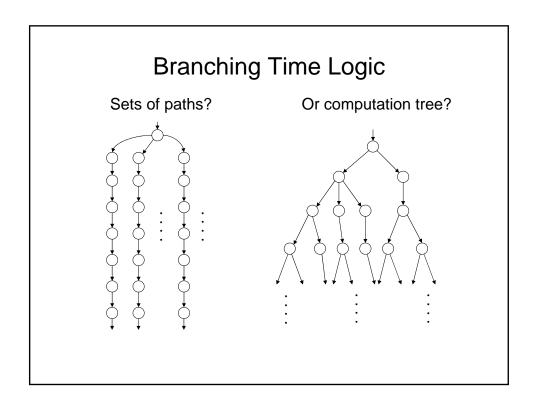


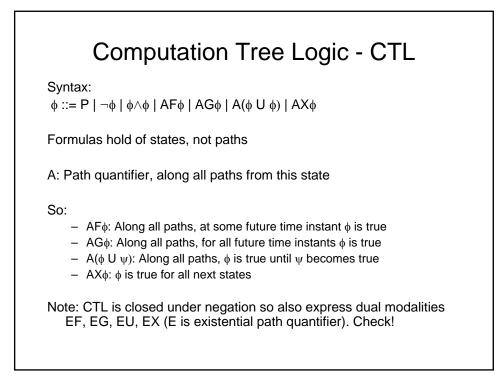


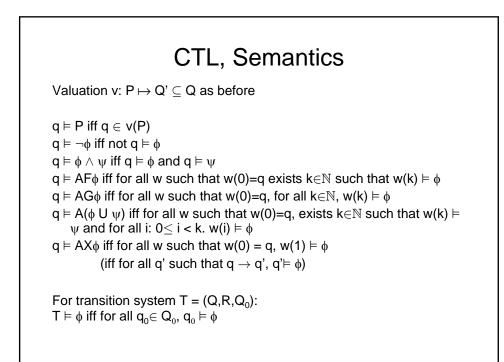


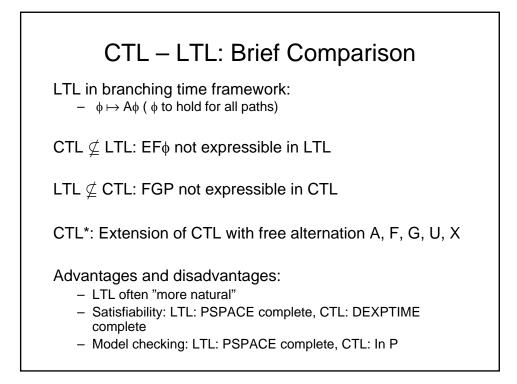


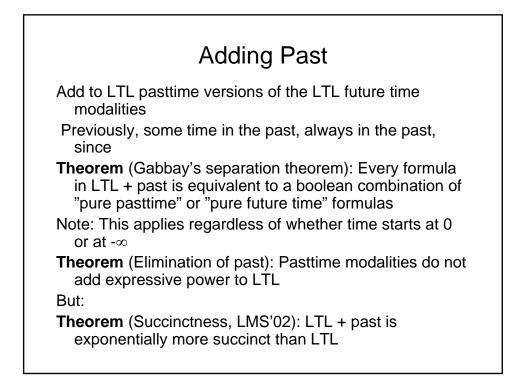


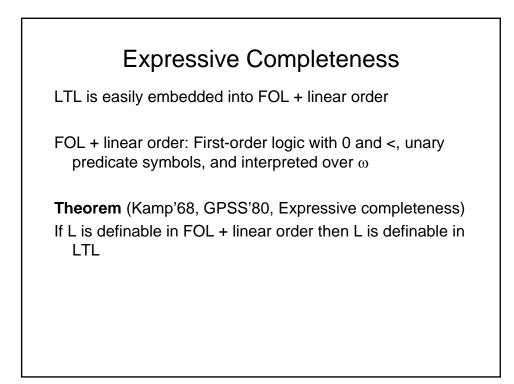


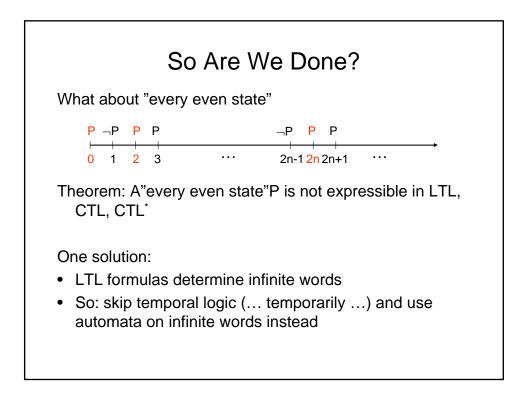


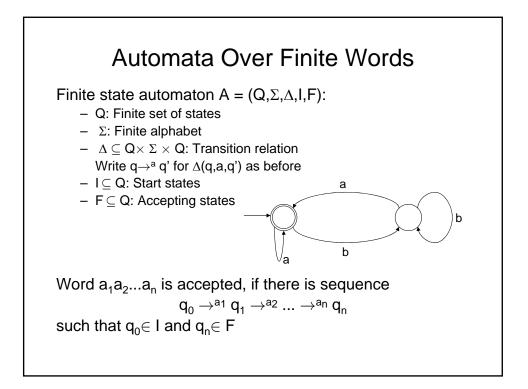


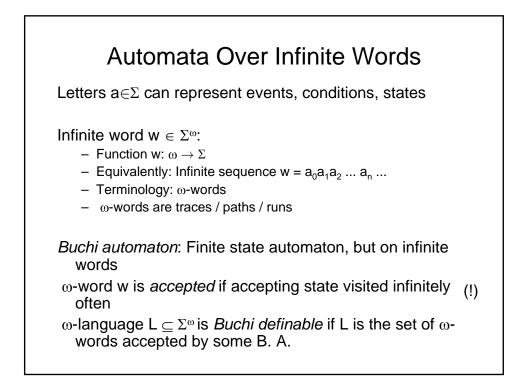


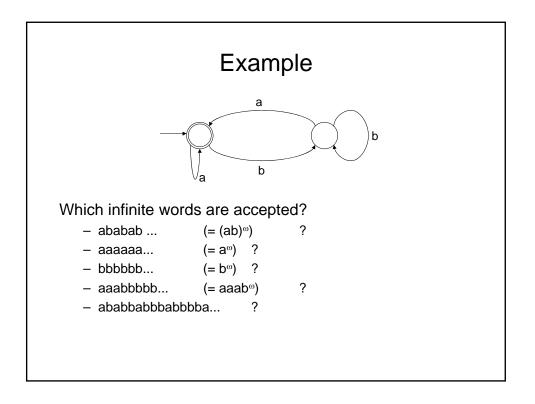


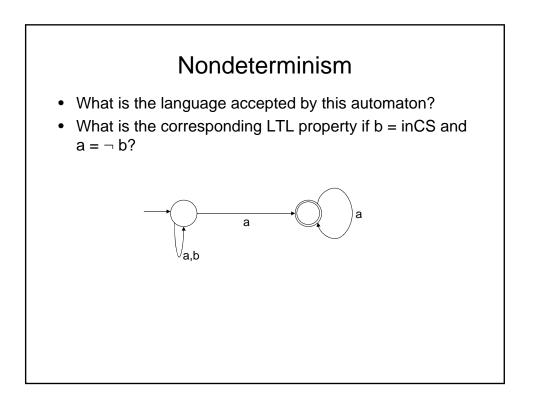


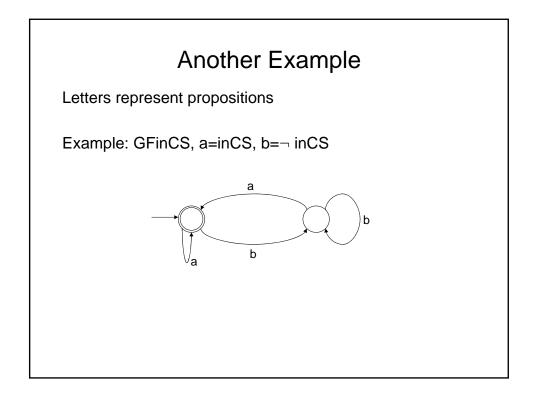


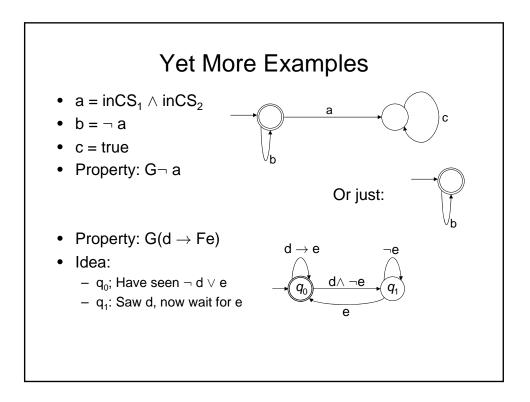


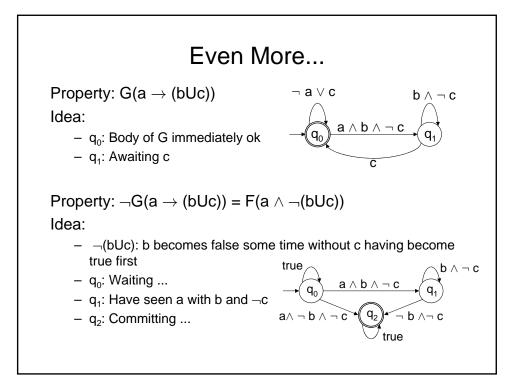


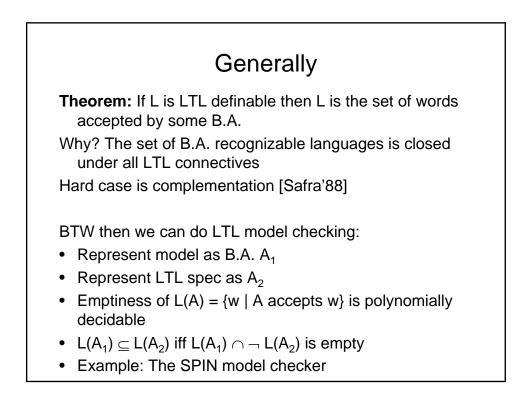


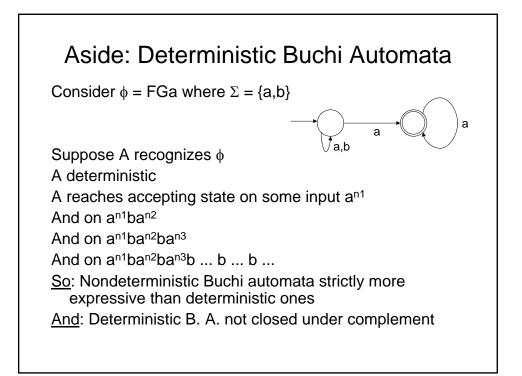


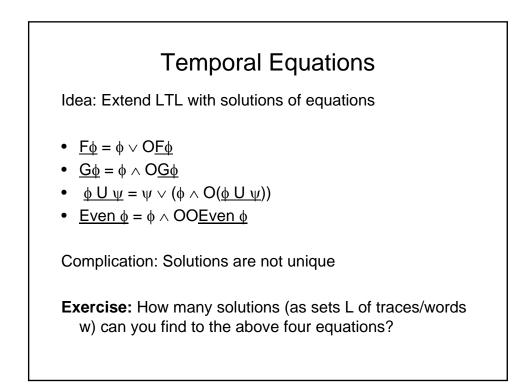


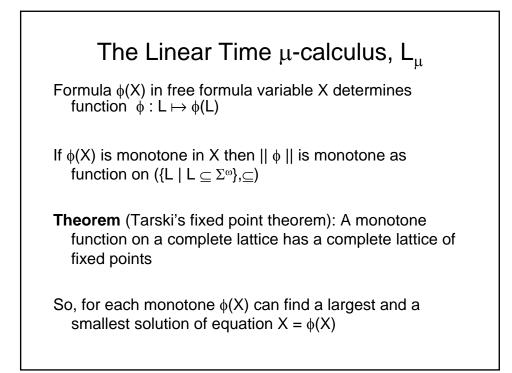


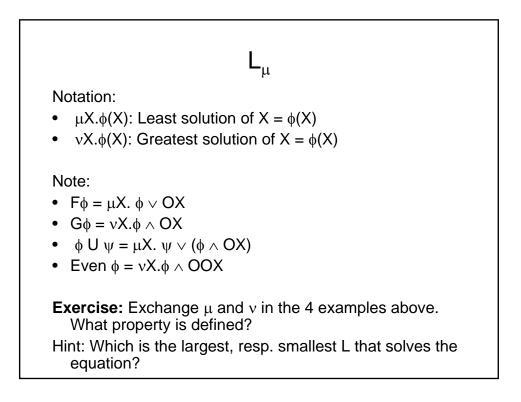


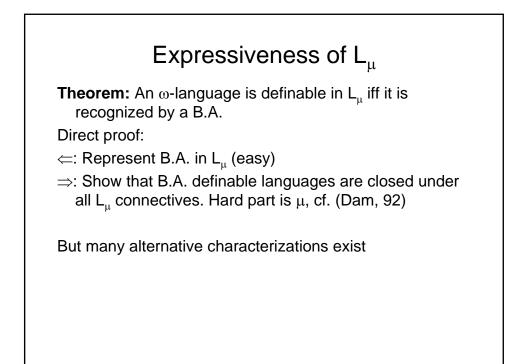


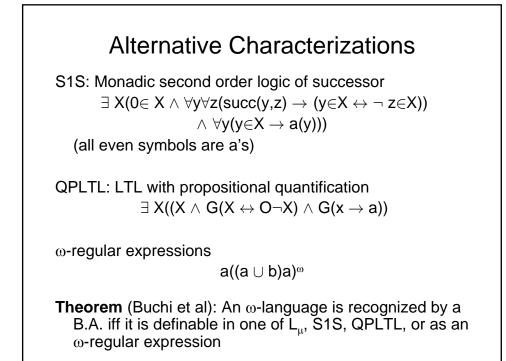












What About Branching Time?
More difficult. Starting point are binary trees:
Theorem (Rabin): S2S (the monadic second-order theory of two successors) is decidable
For more general structures use e.g.
Alternating tree automata
 Modal \mu-calculus
Parity games
Much activity in the past 10 years
But this is outside the scope of this course