

Structure-shyness in Toronto approach

• Toronto approach uses regular expressions

- positive and negative
- may be confusing: pattern graph positive
- Strategy graphs use constraint maps
 - negative: what we want to avoid.
 - leave it open how to specify maps
 - could use regular expressions to specify constraint map

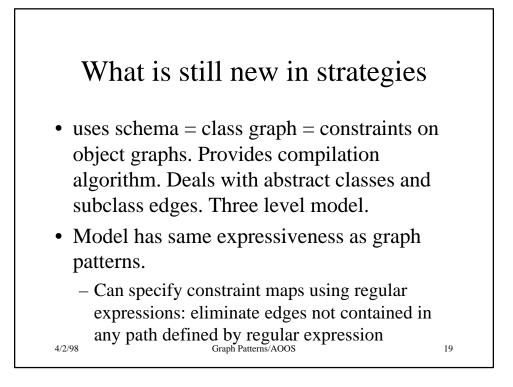
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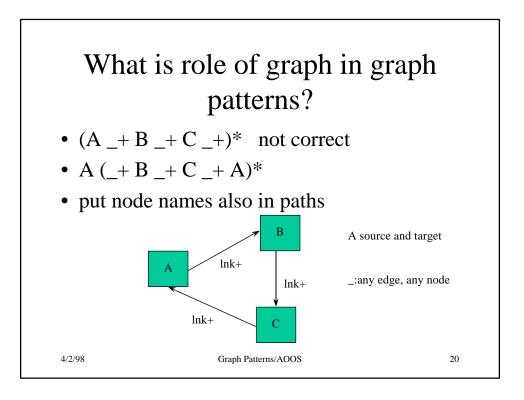
Graph Patterns/AOOS

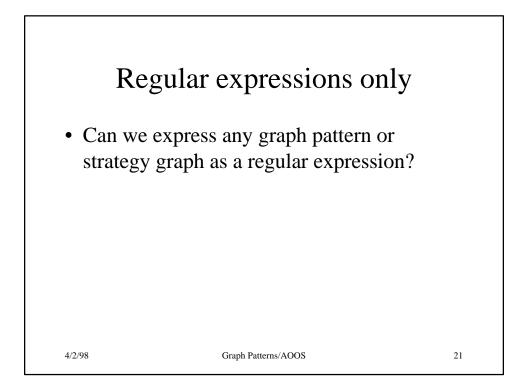
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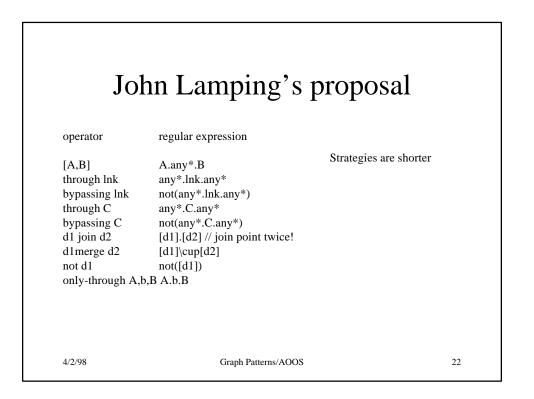
Toronto approach
Shows how to deal with structure-shyness without schema = class graph.
Proposes uniform automata-based approach to AP also suggested by Yannis Smaragdakis

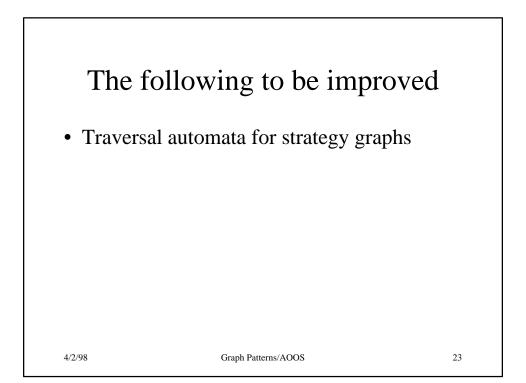
all graphs correspond to finite automata: class, strategy, traversal and object graphs
Algorithm 1: intersection of two automata.
Algorithm 2: intersection of traversal graph and object graph.

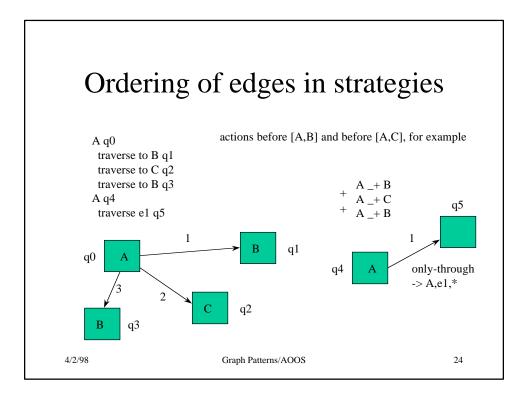


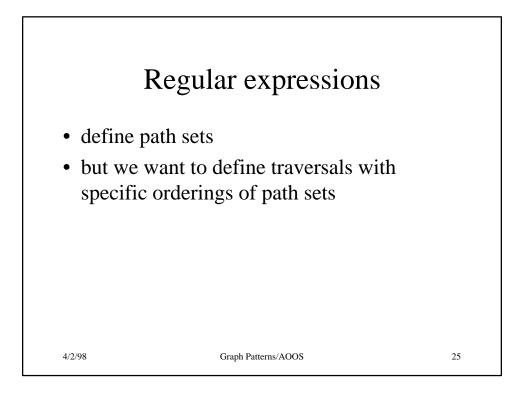


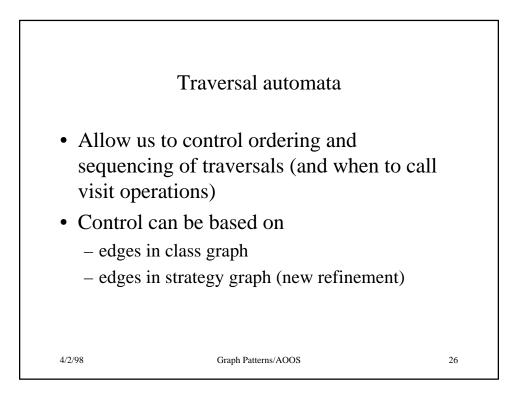












	Traversal Automata	
traverse re traverse to	dVar1 State1 lationValuedVar1 State2 ClassValuedVar2 State3 following constraint1 ClassValuedVar3 State4 following constraint2	
When a class	as graph is given, the traversal automaton is expanded int	0:
traverse re	e1 lation1 State2 lation2 State1 // at target switch to State3 lation3 State1 // at target switch to State4	
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