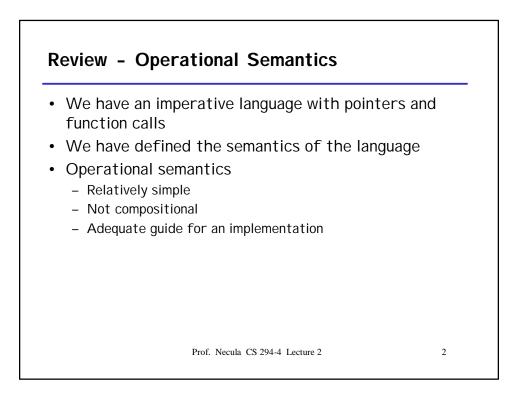
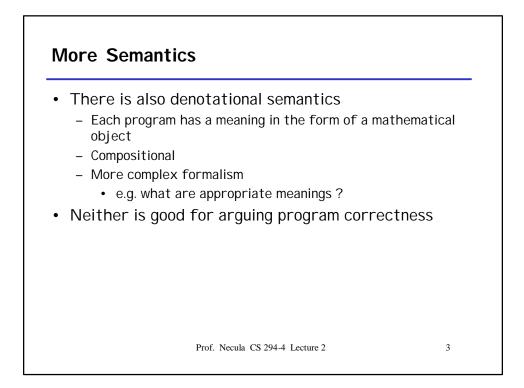
Techniques for Automated Deduction

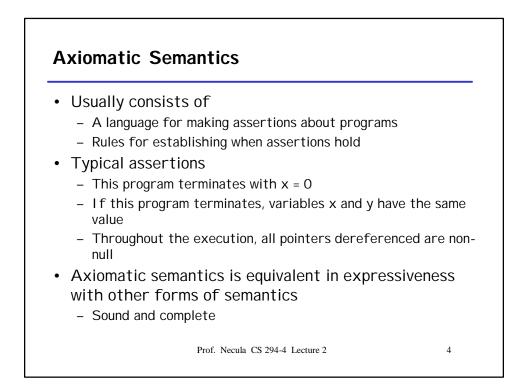
CS 294-4 Lecture 2 Axiomatic Semantics

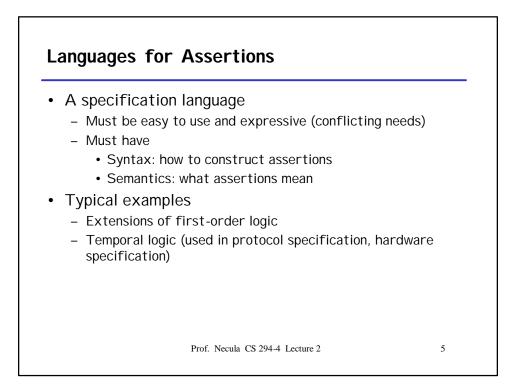
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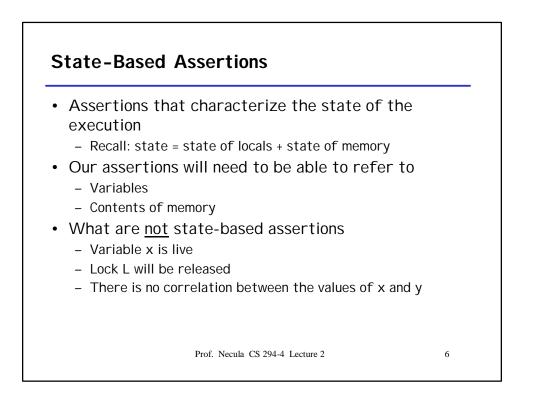
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- We'll use a fragment of first-order logic first Formulas $P ::= A | T | ^ | P_1 \land P_2 | \forall x.P | P_1 \Rightarrow P_2 |$ Atoms $A ::= E | f(A_1, ..., A_n) | E_1 \le E_2 | E_1 = E_2 | ...$
- All boolean expressions are atoms
- We can also have an arbitrary assortment of function symbols
 - ptr(E,T) expression E denotes a pointer to T
 - E : ptr(T) same in a different notation
 - reachable(E_{1}, E_{2}) list cell E_{2} is reachable from E_{1}

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