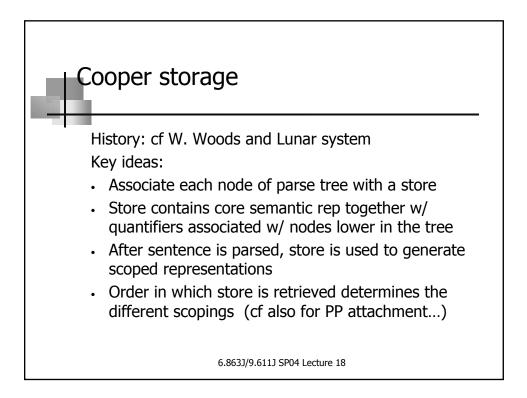
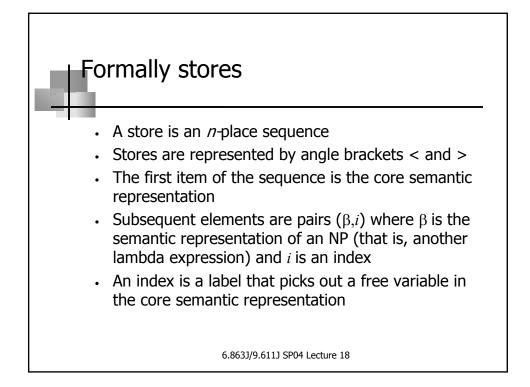
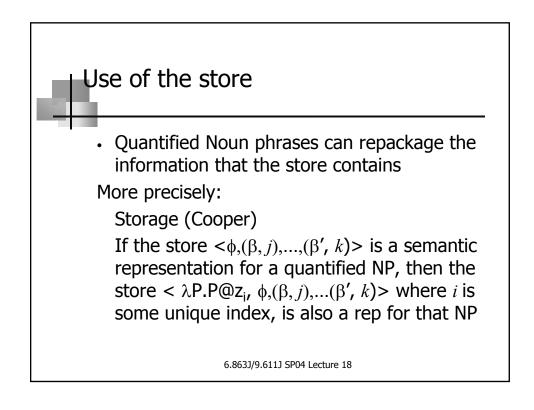
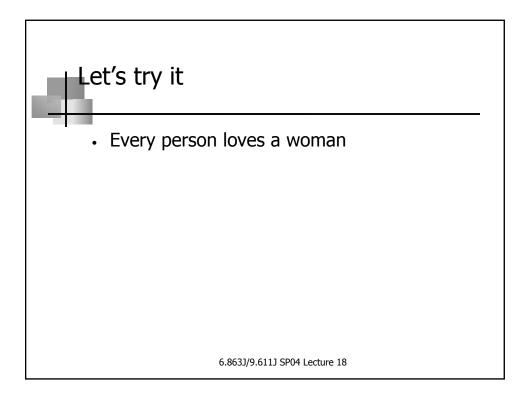


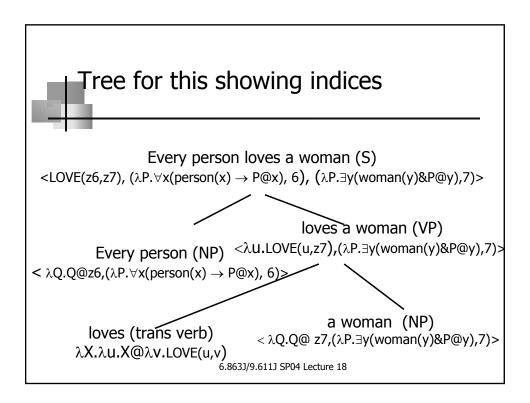
- Idea of having a 'dummy' semantic rep that we use when needed is basically right...
- But... way it is used here is not smart from a modular engineering or computational design
- Don't want to futz w/ grammar only want to add on this combinatory mechanism to existing grammars
- Storage methods move the QR idea from syntax to semantics
- Cooper storage & Keller storage

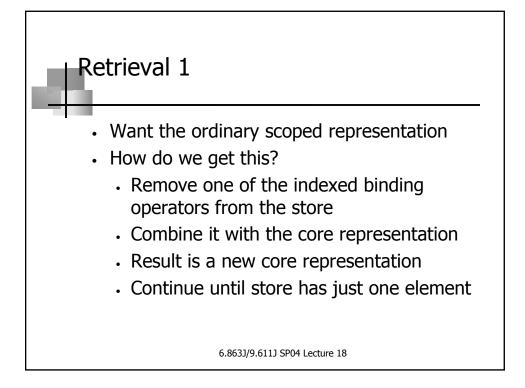


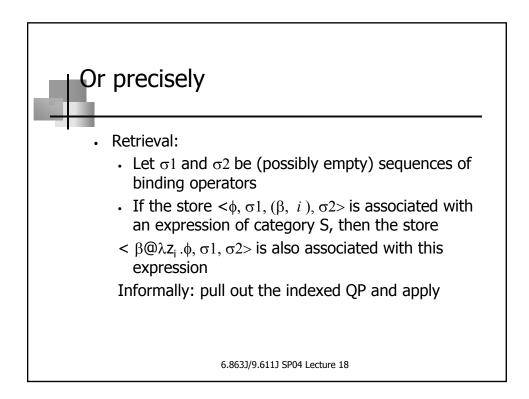


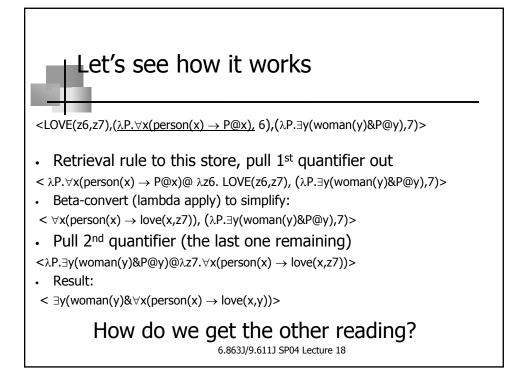


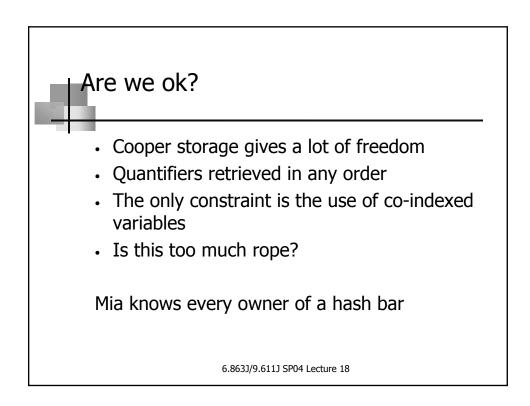


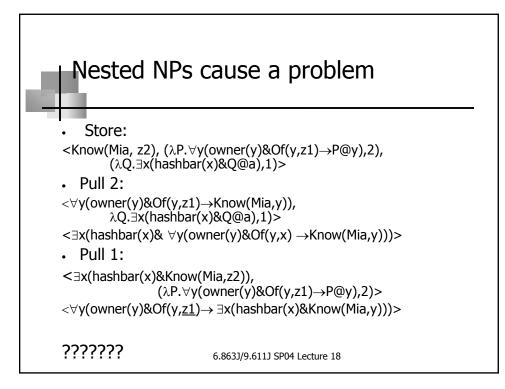


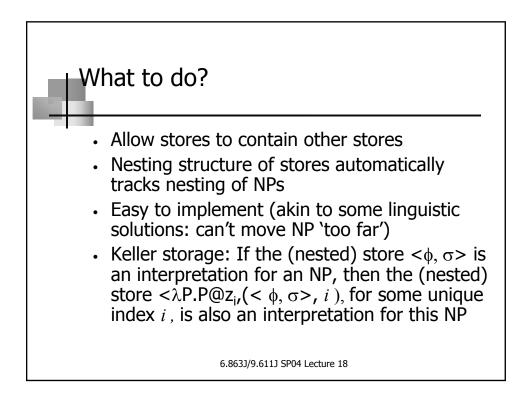


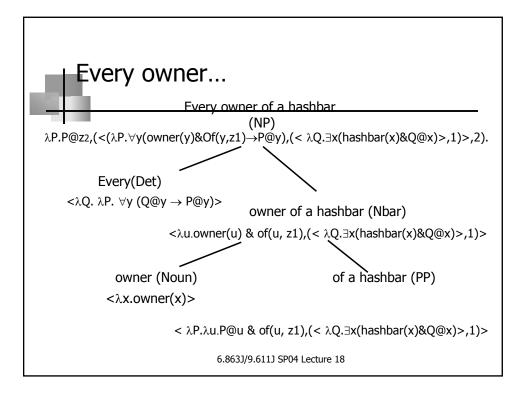


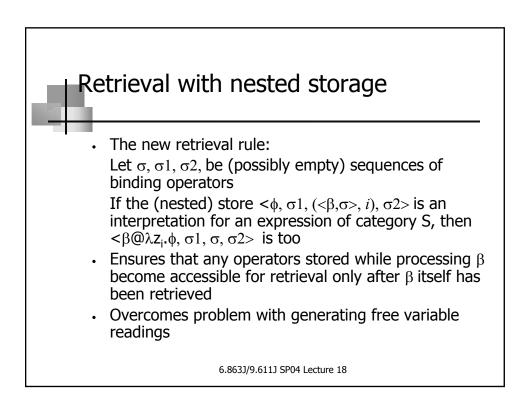


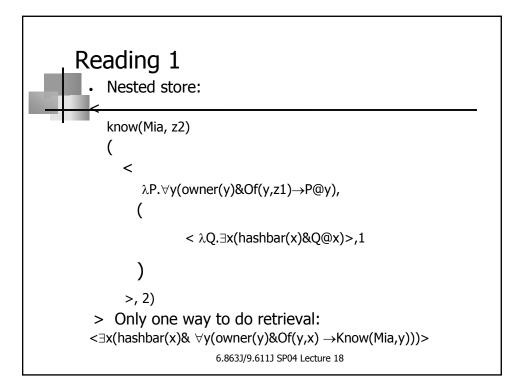


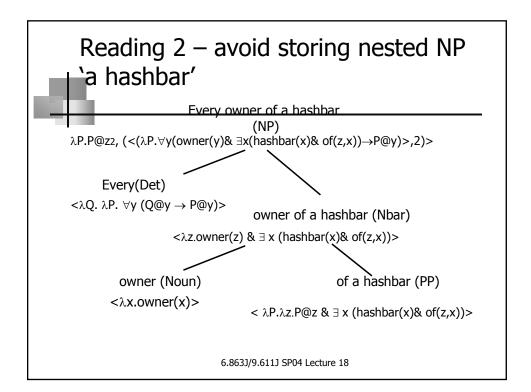


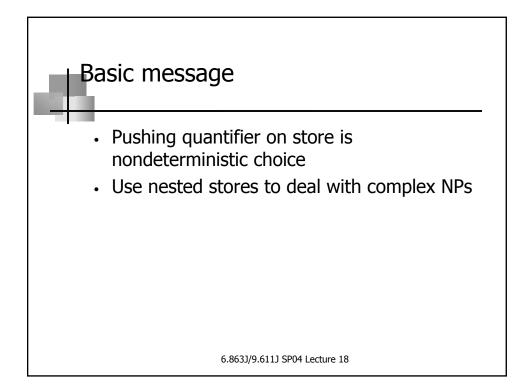


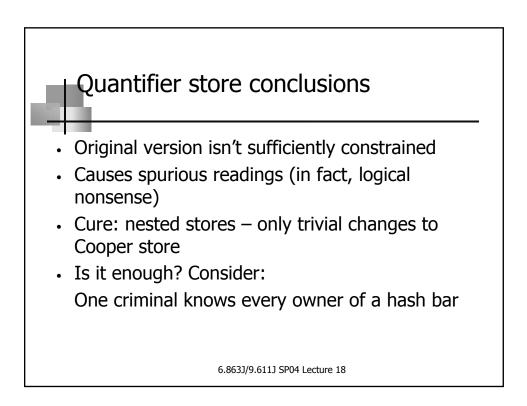


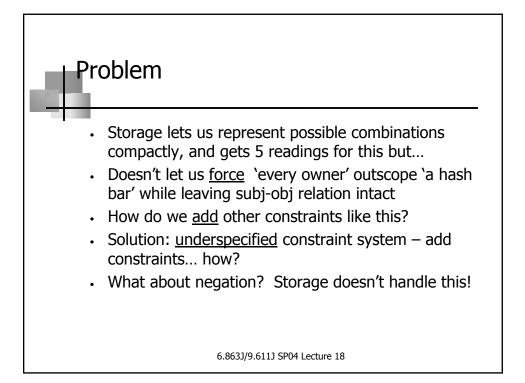


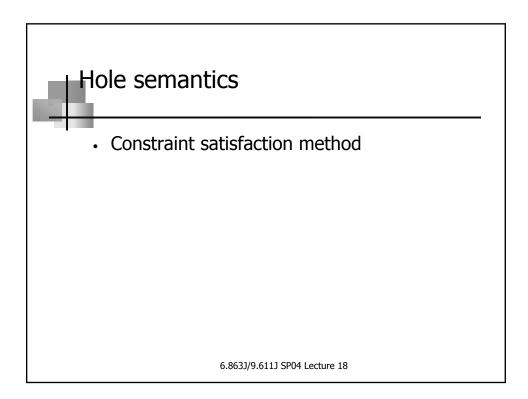


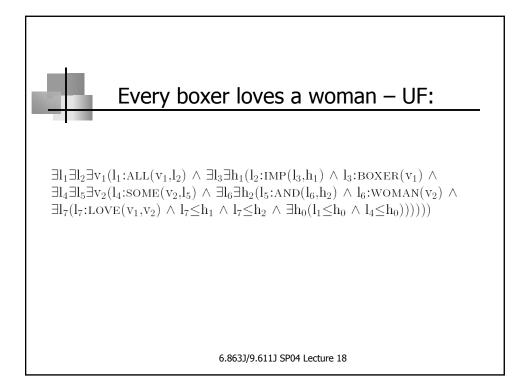


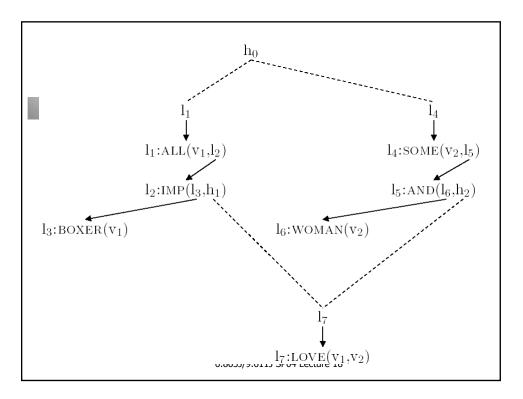


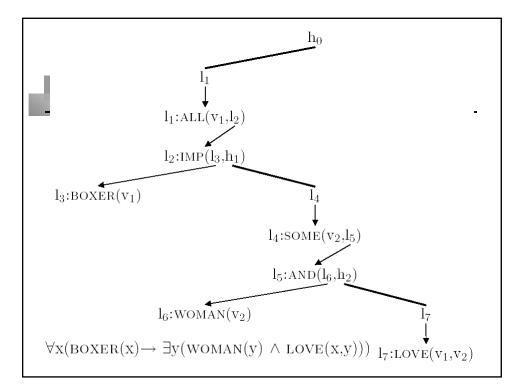


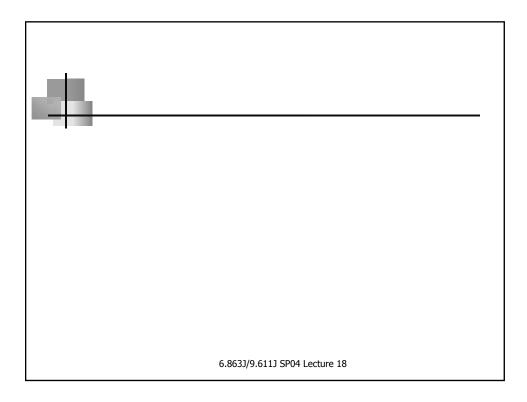


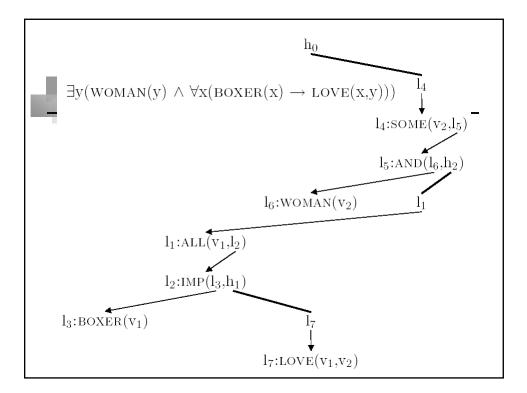


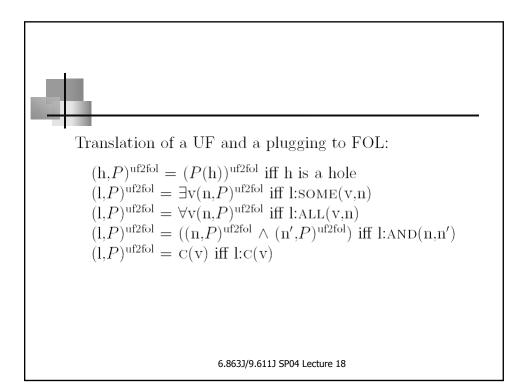












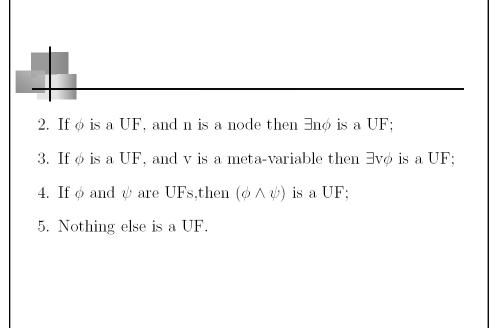
Basic UFs are defined as follows:

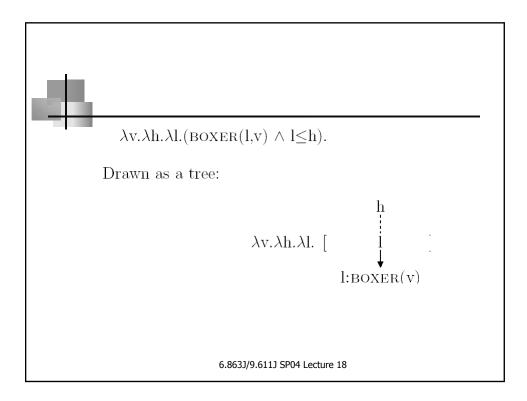
- 1. If l is a label, and h is a hole, then  $l \leq h$  is a basic UF;
- 2. If l is a label, and n and n' are nodes, then l:NOT(n), l:IMP(n,n'), l:AND(n,n'), l:OR(n,n') are basic UFs;
- 3. If l is a label, t and t' are terms, then l:EQ(t,t') is a basic UF;
- If I is a label, S is a symbol in the SRL language with arity n, and t<sub>1</sub>..., t<sub>n</sub> are terms, then l:S,t<sub>1</sub>,...,t<sub>n</sub>) is a basic UF.
- 5. If l is a label, v a metavariable, and n a hole or label, then  $l: {\tt SOME}(v,n)$  and  $l: {\tt ALL}(v,n)$  are basic UFs.
- 6. Nothing else is a basic UF.

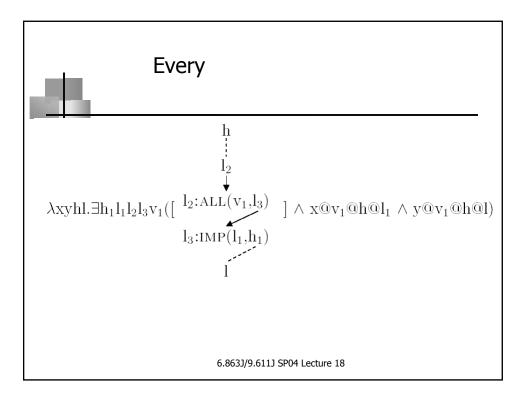
## 6.863J/9.611J SP04 Lecture 18

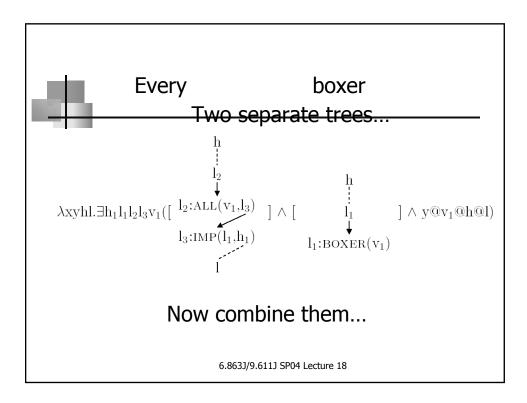
Basic UFs are defined as follows:

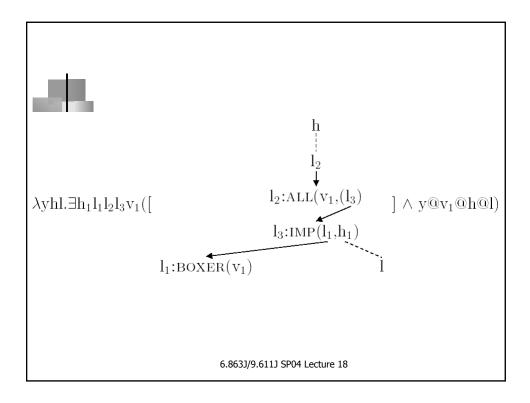
- 1. If l is a label, and h is a hole, then  $l \leq h$  is a basic UF;
- 2. If l is a label, and n and n' are nodes, then l:NOT(n), l:IMP(n,n'), l:AND(n,n'), l:OR(n,n') are basic UFs;
- 3. If l is a label, t and t' are terms, then l:EQ(t,t') is a basic UF;
- 4. If I is a label, S is a symbol in the SRL language with arity n, and  $t_1 \dots t_n$  are terms, then  $l:S,t_1,\dots,t_n$ ) is a basic UF.
- 5. If l is a label, v a metavariable, and n a hole or label, then l:SOME(v,n) and l:ALL(v,n) are basic UFs.
- 6. Nothing else is a basic UF.

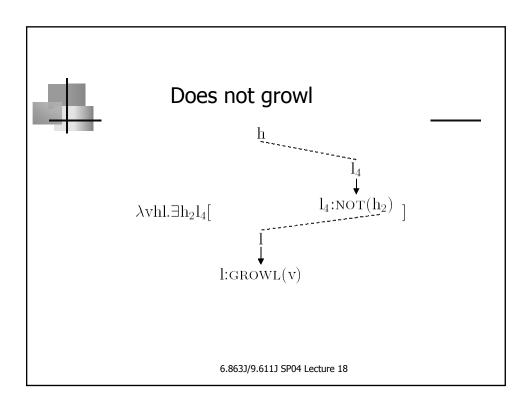


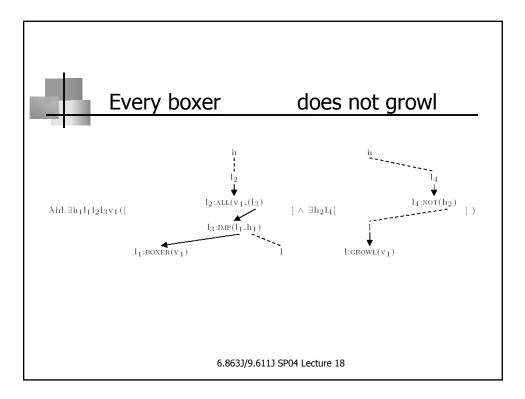


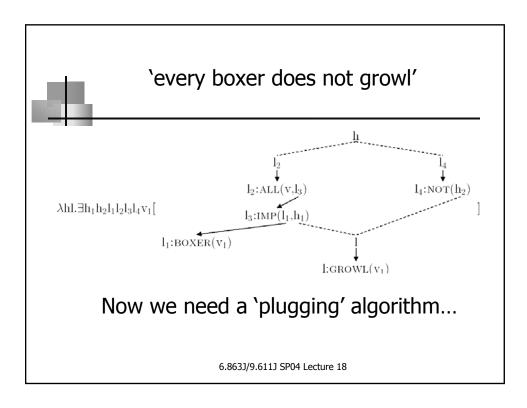


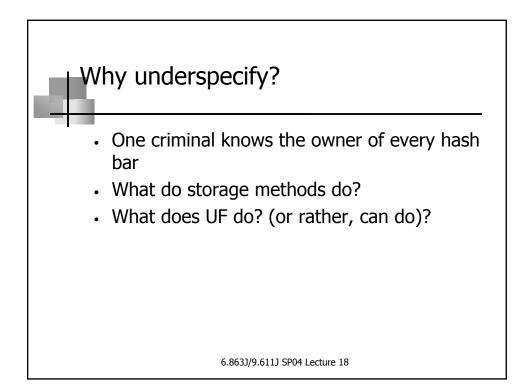


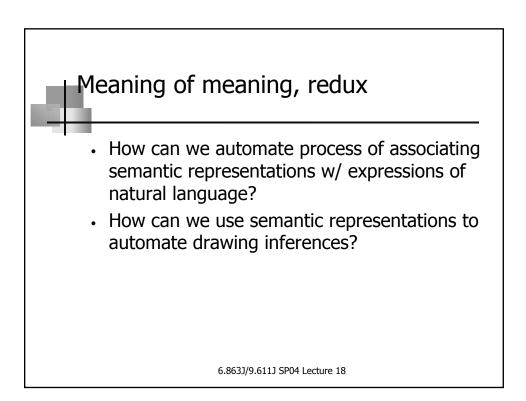














- a human being can understand a possibly *infinite* number of sentences never heard before (namely by constructing their meaning from a *finite* set of rules and a *finite* set of known lexical meanings).
- Also, a compositional account of meaning suggests a plausible explanation of why we perceive a connection *in meaning* between sentences that share syntactic parts