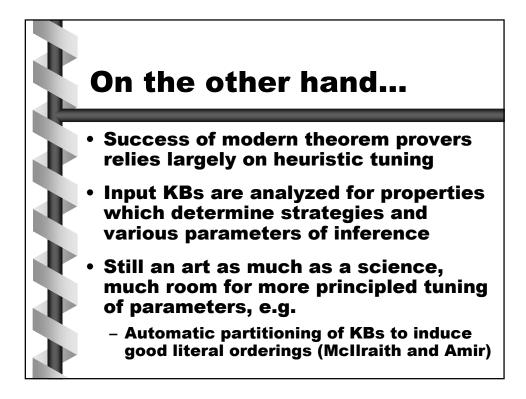
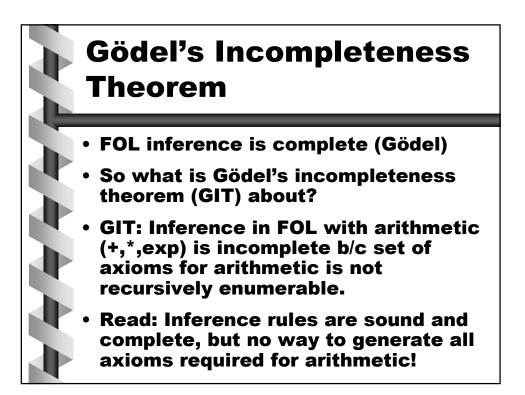


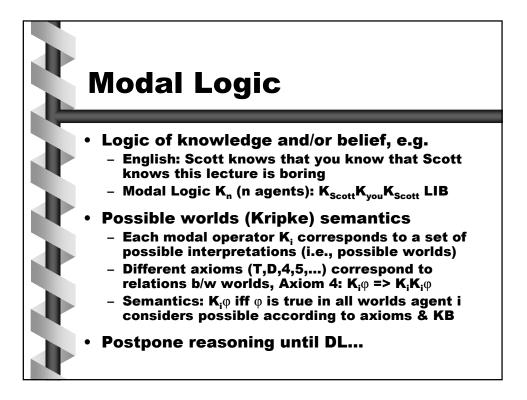
First-order TP Progress

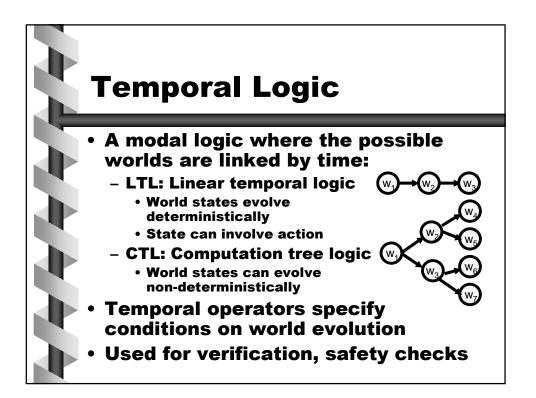
- Ever since the 1970s I at various times investigated using automated theorem-proving systems. But it always seemed that extensive human input--typically from the creators of the system--was needed to make such systems actually find non-trivial proofs.
- In the late 1990s, however, I decided to try the latest systems and was surprised to find that some of them could routinely produce proofs hundreds of steps long with little or no guidance. ... the overall ability to do proofs--at least in pure operator systems--seemed vastly to exceed that of any human.

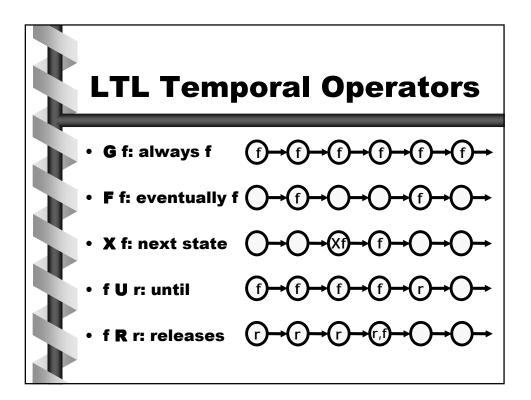
--Steven Wolfram, "A New Kind of Science"

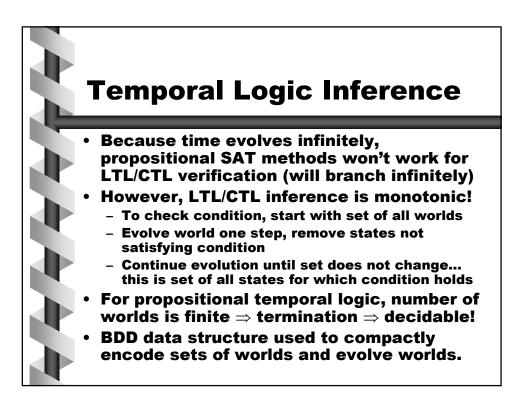












Descr	iption Logic)
A concept oriented logic: English FOL DL		
Dog with a Spot (DWS)	DWS(x) ⇔ Dog(x) ^ (∃y.has(x,y) ^ Spot(y))	DWS ⇔ Dog ∏∃has.Spot
Large Dog with a Dark Spot (LDWDS)	LDWDS(x) ⇔ (Dog(x) ^ Large(x)) ^ (∃y.has(x,y) ^ (Spot(y) ^ Dark(y))	LDWDS ⇔ Dog ∏ Large ∏ ∃has.(Spot ∏ Dark)
• Guarded	l fragment subset	of FOL

