

	syntax and semantics	compactness property	sound and complete Hilbert proof systems	Löwenheim-Skolem theorems <ul style="list-style-type: none">– upward LS “from finite to infinite”– upward LS “from infinite to larger”– downward LS	definability <ul style="list-style-type: none">– finite structures– natural numbers– countable structures
FOL					
FOL (\wedge)					
FOL ($\overset{\infty}{\exists}$)					
FOL ($\overset{2^{\aleph}}{\exists}$)					
SOL					
weak SOL					