Models

Some notes about models, and classes.

Class of Structures

Given a formula φ, the class of structures is all models that satisfy φ. There are certain classes that can be described using different logics. Following are classes that can be described using FOL.

Elementary (EC)

A Class is elementary if a single sentence can descibe it. If there are multiple sentences describing it, one can take the conjunction and turn them into a single sentence.

Extended Elementary

Need a set of sentences to describe the class. My understanding is that it may also be referred to the axiom schema of the structure being defined.