

6.4. Describing models

6.4.0. Overview

The grammatical variety we have been considering brings with it a greater variety of semantic values; but, while extensional interpretations are now much more than simple assignments of truth values, they still serve as counterexamples to arguments that are not formally valid.

6.4.1. Extensions and ranges

While the extensions of individual terms are (like the extensions of sentences) single values, the extensions of operations are (like the extensions of connectives) functions.

6.4.2. Building structures

The extensions of predicates (functions from reference values to truth values) can be fully specified by telling the input for which they give output T, and these cases can be presented in diagrams to which the extensions of other items of non-logical vocabulary can be added.

6.4.3. Structures as counterexamples

Although extensional interpretations are now different, it is still true that a dead-end open gap provides a partial interpretation all of whose completions will divide the gap.