

Exercises due on: Monday 7 June, 23:59

Semantic Theory 2021: Exercise sheet 5

Exercise 1

Give the truth conditions for the following sentences, interpreting the (complex) determiner as a relation between sets. You can interpret each VP as a property (i.e., a set of entities). Illustrate your answer with a graphical representation of a model in which the sentence is true.

- a. Every wizard but Harry fears Voldemort.
- b. Some but not all Muggles are afraid of magic.
- c. At most five girls play Quidditch.
- d. Few Gryffindors are lazy.

Exercise 2

Determine the monotonicity properties (left and right) of the following determiners. Show how you derived these monotonicity properties.

- a. some but not all
- b. at most five
- c. exactly five

Exercise 3

Prove that the following statement holds:

- The external negation of an upward monotonic quantifier is a downward monotonic quantifier.