

## Assignment6 – Noun Phrases in Fragment 4

### Problem 6.1

1. In fragment 4, noun phrases are translated to expressions of type  $(\iota \rightarrow o) \rightarrow o$ . What was the motivation for this? What can we do now that was not possible before?
2. Names ( $N_{pr}$ ) are still of type  $\iota$ . How would we translate the *noun phrase* *Ethel*? (the result should be an expression of type  $(\iota \rightarrow o) \rightarrow o$ )
3. Parse the sentence *every dog saw the red cat* and apply the translation rules according to fragment 4. The translation is not fully specified in the slides, but if you understood the previous fragments and the handling of noun phrases, you should be able to fill in the gaps.
4. How would you have to extend the fragment to allow combining noun phrases with conjunctions? The goal is to support sentences like *Ethel and the cat ran*