## 8.4.s. Summary

A famous analysis of definite descriptions was first proposed early in the 20<sup>th</sup> century by Bertrand Russell. According to Russell's analysis, a sentence *The* C *is such that* (... *it* ...) amounts to *Something such that it and only it is a* C *is such that* (... *it* ...). This analysis is equivalent to the conjunction of *Some* C *is such that* (... *it* ...) and *There is at most one* C, so, according to Russell, the effect of using a definite rather than an indefinite article is to imply the latter conjunct. Russell's analysis treats a definite description as a kind of quantifier phrase and leads to scope ambiguities in negative sentences involving definite descriptions.

An alternative approach avoids this suggestion of ambiguity by treating definite descriptions as individual terms and analyzing them by the use of a description operator, which applies to predicate abstracts to form terms. We use a sans-serif capital I as notation for the description operator, abbreviating I[ $\lambda x \rho x$ ] by Ix  $\rho x$ . A term formed in this way has the sole member of the predicate's extension as its reference value if that extension has a unique member; otherwise, its reference value is the nil value. We fix a logically constant term, the nil, which always has the nil value and use the notation \* (asterisk operator) for it. The content of ... the C ... on this analysis can be expressed using a branching conditional as if there is exactly one C, then some C is such that (... it ...); otherwise, ... the nil ....

Each of the two approaches to analyzing definite descriptions can be used to exhibit the difference between a restrictive and a non-restrictive relative clause when these modify a common noun governed by the article *the*. Although both analyses point to differences between such sentences, their accounts of the relations between them differ.

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