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# *Language*

*"No language is justly studied merely as an aid to other purposes.  
It will in fact better serve other purposes, philological or  
historical, when it is studied for love, for itself."*

—J. R. R. Tolkien

The purpose of these notes is to uh...

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliquam quaerat voluptatem. Ut enim aequa doleamus.

## **0.1 A Brief History of...**

It is worth reflecting on  $\forall$  and  $\exists$  and  $\omega$  and  $\aleph$ .

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliquam quaerat voluptatem. Ut enim aequa doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut.

## **0.2 Syntax and Semantics**

A language provides a way of encoding ideas as sequences of symbols.<sup>1</sup>

## **0.3 A Recurring Theme**



Figure 1. A fragment taken from the *Oxyrhynchus papyri*, dated to approximately 100 AD, depicting proposition 5 from book 2 of Euclid's *Elements*.

<sup>1</sup>For our purposes, we will restrict our attention only to *written* languages.