

# A Denotational Semantics for STLC

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**Abstract.** Just some notes trying out “ $\text{\LaTeX}$  literate Agda mode” as I work through this next chapter on denotational semantics.

## 1 Intro to the Lambda Calculus

The lambda calculus, first published by Alonzo Church in 1932 is a minimal calculus with only three syntactic constructs: variables, abstraction, and (function) application.

The *simply typed lambda calculus* (STLC) is a variant of the lambda calculus that adds types to the untyped lambda calculus – the 1932 version.

### 1.1 A Subsection Sample

Please note that the first paragraph of a section or subsection is not indented. The first paragraph that follows a table, figure, equation etc. does not need an indent, either.