Notes on Fibrational Semantics of Simple, Polymorphic, and Dependent Type Theory

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1 The Simple Fibration

Definition 1.1. A CT-structure is a pair (\mathbb{B}, T) where \mathbb{B} is a category with finite products, and $T \subseteq \mathsf{Obj}(\mathbb{B})$ is a collection of types.

A CT-structure (\mathbb{B}, T) should be thought of as a category of contexts \mathbb{B} whose types draw their atomic elements from T. Given contexts $\Gamma, \Delta \in \mathsf{Obj}(\mathbb{B})$, their concatenation $(\Gamma, \Delta) = (\Gamma \times \Delta)$.

Definition 1.2. ...

Definition 1.3. ...