Linear Everywhere Dependent Type Theory (LEDTT)

Every variable must be used:

Let $\Gamma \vdash t : B$. For every $x : A \in \Gamma$ then either $x \in \mathsf{FV}(\Gamma)$ or $x \in \mathsf{FV}(t)$ or $x \in \mathsf{FV}(B)$.

Linearity across judgments:

Let $\Gamma \vdash t : B$. For every $x : A \in \Gamma$ then x appears only once in Γ, or only once in t, or only once in B.

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Variable localization:

Let $\Gamma \vdash t : B$. For every $x : A \in \Gamma$ then the following holds:

- If $x \in \mathsf{FV}(\Gamma)$, then $x \notin \mathsf{FV}(t)$
- If $x \in \mathsf{FV}(t)$, then $x \notin \mathsf{FV}(\Gamma)$