
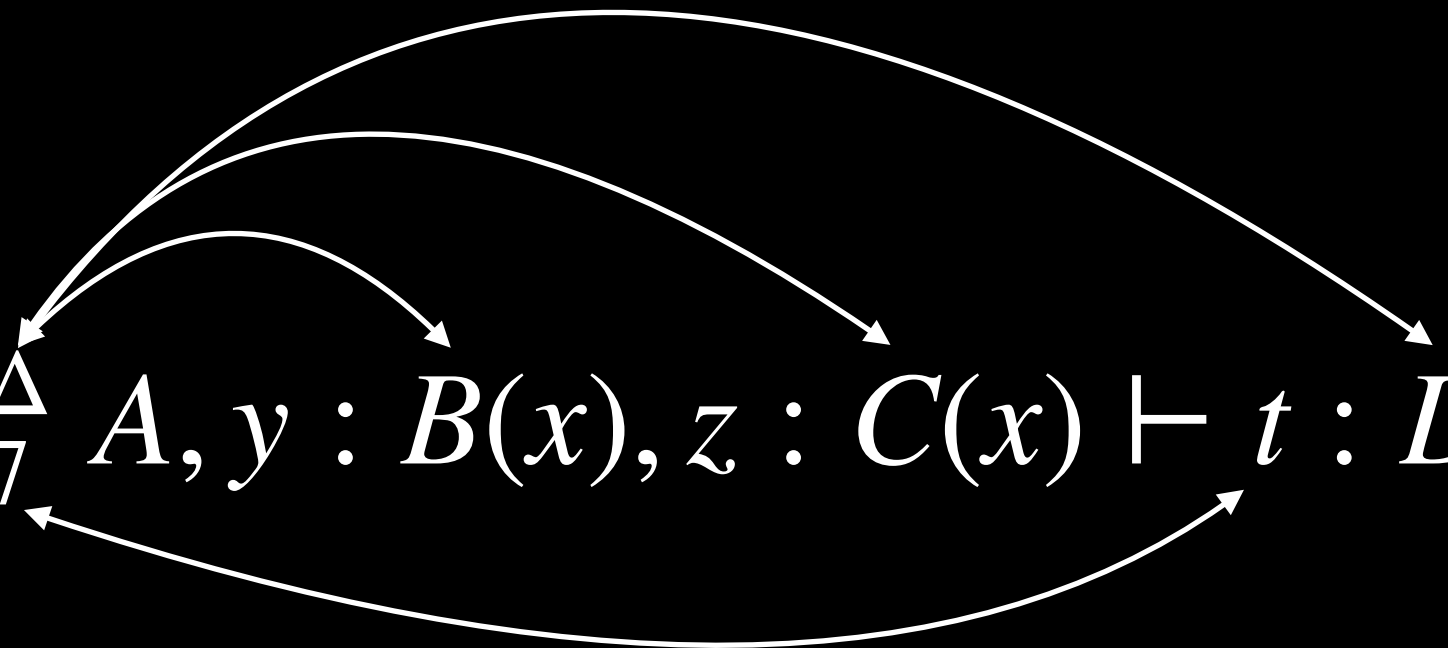


Key idea: Double the grades

$$\Gamma_1, x : \overset{\Delta}{\underset{s}{A}}, \Gamma_2 \vdash t : B$$


where $\Delta : \text{Vars.} \rightarrow \mathcal{R}$ is called a usage map.

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$$\Gamma_1, x : \frac{\Delta}{7} A, y : B(x), z : C(x) \vdash t : D(x)$$


where

$$\Delta := \{y \mapsto 4, z \mapsto 42, \bullet \mapsto 2\}$$