Intuitionistic Linear Logic

$$\frac{\Gamma_1, \Gamma_2 \vdash B}{\Gamma_1, !A, \Gamma_2 \vdash B}\, W$$

$$\frac{\Gamma_1, !A, !A, \Gamma_2 \vdash B}{\Gamma_1, !A, \Gamma_2 \vdash B}\, C$$

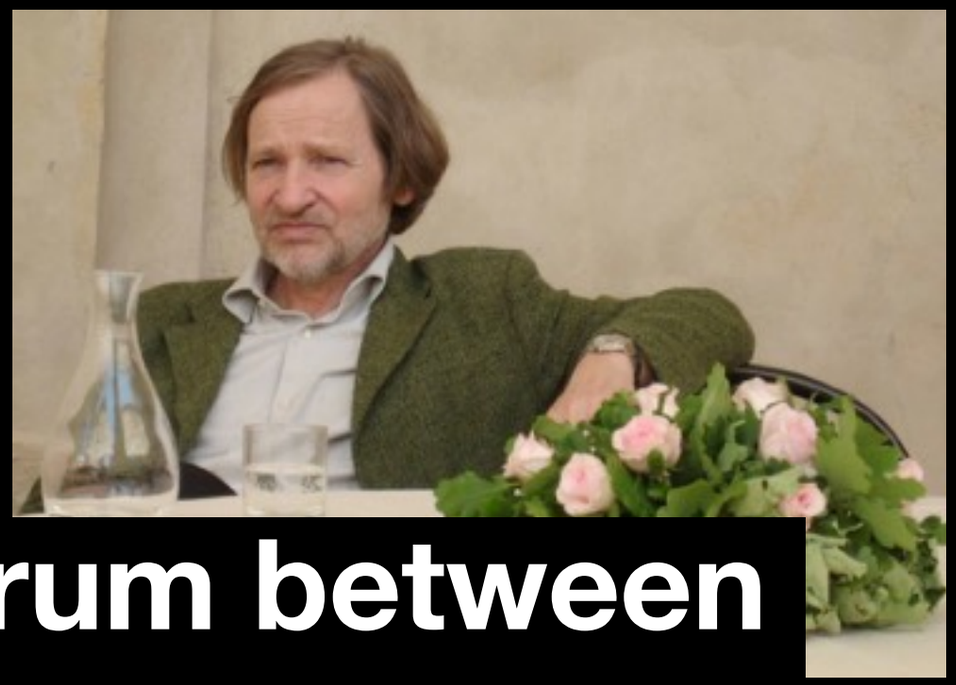
$$\frac{!\Gamma \vdash B}{!\Gamma \vdash !B}\, P$$

$$\frac{\Gamma_1 \vdash !A_1, \ldots, \Gamma_i \vdash !A_i \qquad !A_1, \ldots, !A_i \vdash B}{\Gamma_1, \ldots, \Gamma_i \vdash B}\, D$$

Intuitionistic Linear Logic

Supports the following data-usage constraints:

- **Linear usage (one)**
- **Affine usage (one or none)**
- **Non-linear usage (tons)**



What about the spectrum between none and tons?