

Teil I

Examples

1 Math

$$p = (1 - \lambda) \cdot \lambda$$

2 Images

$$\frac{}{\dots, x : \tau, \dots \vdash x :: \tau} \text{Var} \quad \frac{\Gamma, x : \sigma \vdash t :: \tau}{\Gamma \vdash (\lambda x. t) :: \sigma \rightarrow \tau} \text{Abs} \quad \frac{\Gamma \vdash t_1 :: \sigma \rightarrow \tau \quad \Gamma \vdash t_2 :: \sigma}{\Gamma \vdash (t_1 t_2) :: \tau} \text{App}$$

- a) **Base Types:** Double, ...
- b) **Compound Types:** Lists, Tuples, ...
- c) **Type Classes**, have Instances, offer restricted form of polymorphism. Similar to Interfaces. E.g the type class **Eq** represents a set of Types.
- d) **Algebraic Types**, similar to structs.
 - Enumeration Types
 - Product Types

Code can be placed in line, e.g.
`data Tree = Leaf Int | Node Tree Tree` with
`Verbatim`.

$$R(x_1, \dots, x_n) := \frac{\sup_{\vartheta \in \Theta_A} L(x_1, \dots, x_n; \vartheta)}{\sup_{\vartheta \in \Theta_0} L(x_1, \dots, x_n; \vartheta)}$$