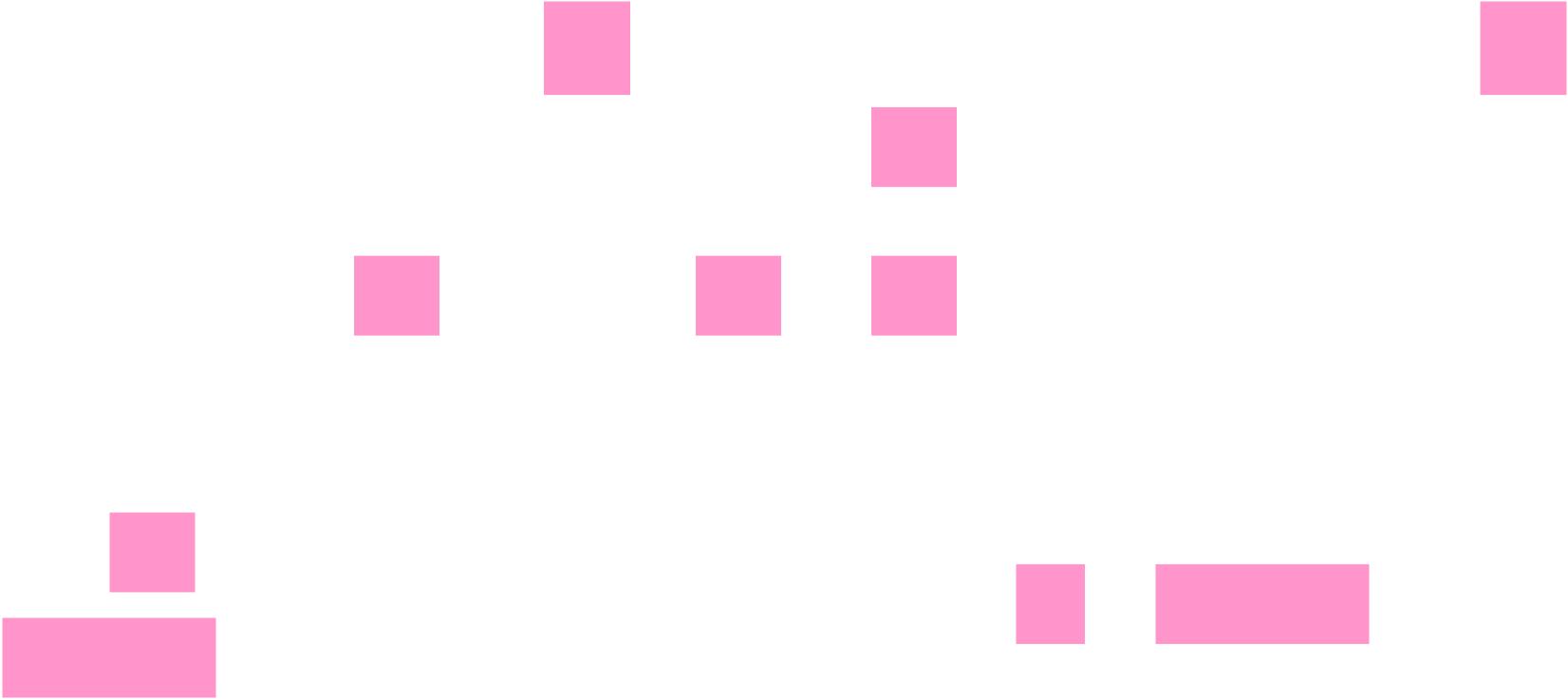
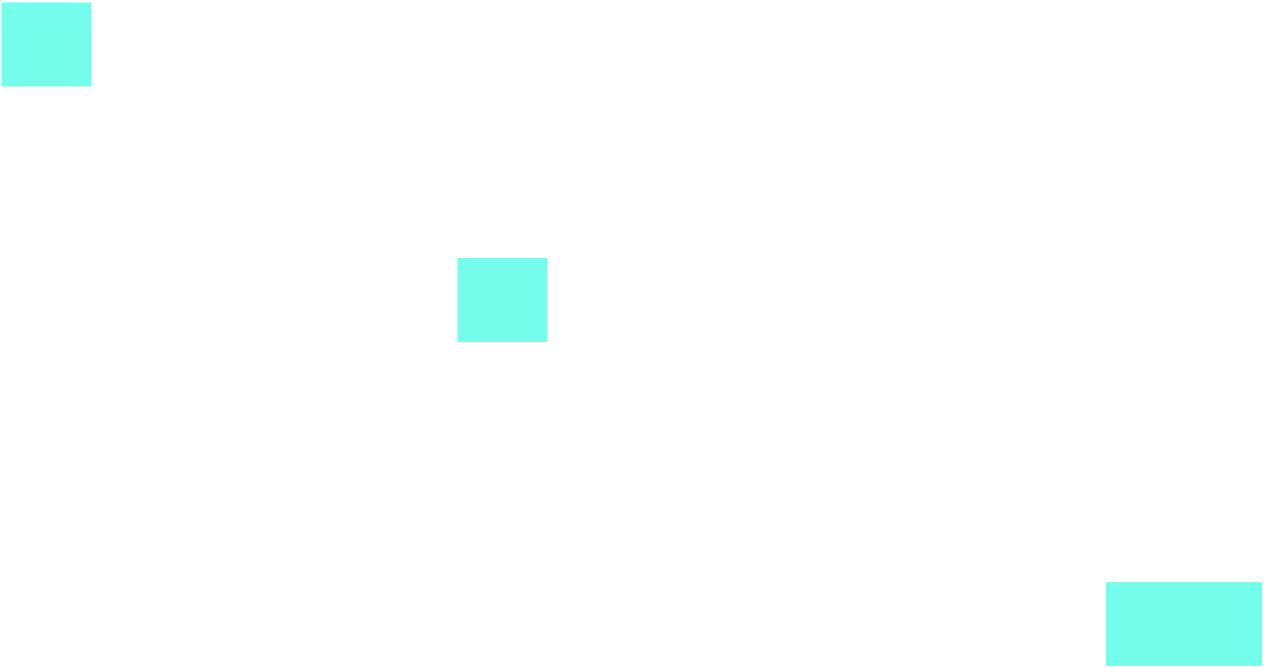
Binding Signature







$$\frac{\rho : \mathsf{Sub}_{\Sigma}(\Xi, \emptyset) \qquad \Gamma, \vec{x}_1 : \Delta_1 \langle \rho \rangle \vdash_{\Sigma, \Omega} t_1 : A_1 \langle \rho \rangle \cdots \Gamma, \vec{x}_n : \Delta_n \langle \rho \rangle \vdash_{\Sigma, \Omega} t_n : A_n \langle \rho \rangle}{\Gamma \vdash_{\Sigma, \Omega} \mathsf{op}_o(\vec{x}_1 . t_1; \dots; \vec{x}_n . t_n) : A_0 \langle \rho \rangle} \text{ Op}$$

for $o: \Xi \rhd [\Delta_1]A_1, \ldots, [\Delta_n]A_n \to A_0$ in Ω

 $abs: A, B \triangleright [A]B \rightarrow A \supset B$

$$\frac{\Gamma, x : A \vdash t \Leftarrow B}{\Gamma \vdash \lambda x . t \Leftarrow A \supset B}$$

Simply Typed Language

$$\frac{(x:A) \in \Gamma}{\Gamma \vdash_{\Sigma,\Omega} x:A} VAR$$

$$\frac{\Gamma \vdash_{\Sigma,\Omega} t : A}{\Gamma \vdash_{\Sigma,\Omega} (t \circ A) : A} \text{ Anno}$$

\(\) 1

$$\frac{\rho : \mathsf{Sub}_{\Sigma}(\Xi,\emptyset) \qquad \Gamma, \vec{x}_1 : \Delta_1 \langle \rho \rangle \vdash_{\Sigma,\Omega} t_1 : A_1 \langle \rho \rangle \cdots \Gamma, \vec{x}_n : \Delta_n \langle \rho \rangle \vdash_{\Sigma,\Omega} t_n : A_n \langle \rho \rangle}{\Gamma \vdash_{\Sigma,\Omega} \mathsf{op}_o(\vec{x}_1. t_1; \dots; \vec{x}_n. t_n) : A_0 \langle \rho \rangle} \mathsf{OP}$$

for $o: \Xi \rhd [\Delta_1]A_1, \dots, [\Delta_n]A_n \to A_0$ in Ω

$$\Gamma \vdash_{\Sigma,\Omega} \mathsf{Op}_o(x_1, \iota_1, \ldots, x_n, \iota_n) : A_0\langle \rho \rangle$$