- Value terms
- – Var x
  – lambda $\lambda x : A.C$
  – const $\mathtt{C}^A$
  – unit $\mathtt{()}$
  – true $\mathtt{true}$
  – false $\mathtt{false}$
- Computation terms
- – If $\mathtt{if}_{\epsilon,A} v \mathtt{then} C_1 \mathtt{else} C_2$
  – Application $V_1 V_2$
  – Do $\mathtt{do} x \leftarrow C_1 \mathtt{in} C_2$
  – return $\mathtt{return} V$
- Type System
- – (Unit) $\frac{}{\Gamma \vdash \mathtt{()} : \mathtt{Unit}}$
  – (True) $\frac{}{\Gamma \vdash \mathtt{true} : \mathtt{Bool}}$
  – (False) $\frac{}{\Gamma \vdash \mathtt{false} : \mathtt{Bool}}$
  – (Var) $\frac{}{\Gamma, x:A \vdash X : A}$
  – (Weaken) $\frac{\Gamma \vdash x : A}{\Gamma, y:B \vdash X : A}$ (if $x \neq y$)
  – (Fn) $\frac{\Gamma, x:A \vdash C : \mathtt{M}_\epsilon B}{\Gamma \vdash \lambda x:A.C : A \to \mathtt{M}_\epsilon B}$
  – (Sub) $\frac{\Gamma \vdash v : A \quad A <: B}{\Gamma \vdash v : B}$
- – (Return) $\frac{\Gamma \vdash v : A}{\Gamma \vdash \mathtt{return} v : \mathtt{M}_1 A}$
  – (Apply) $\frac{\Gamma \vdash v_1 : A \to \mathtt{M}_\epsilon B \quad \Gamma \vdash v_2 : A}{\Gamma \vdash v_1 v_2 : \mathtt{M}_\epsilon B}$
  – (if) $\frac{\Gamma \vdash v : \mathtt{Bool} \quad \Gamma \vdash C_1 : \mathtt{M}_\epsilon A \quad \Gamma \vdash C_2 : \mathtt{M}_\epsilon A}{\Gamma \vdash \mathtt{if}_{\epsilon,A} V \mathtt{then} C_1 \mathtt{else} C_2 : \mathtt{M}_\epsilon A}$
  – (Do) $\frac{\Gamma \vdash C_1 : \mathtt{M}_{\epsilon_1} A \quad \Gamma, x:A \vdash C_2 : \mathtt{M}_{\epsilon_2} B}{\Gamma \vdash \mathtt{do} x \leftarrow C_1 \mathtt{in} C_2 : \mathtt{M}_{\epsilon_1 \cdot \epsilon_2} B}$
  – (Subeffect) $\frac{\Gamma \vdash C : \mathtt{M}_{\epsilon_1} A \quad A <: B \quad \epsilon_1 \leq \epsilon_2}{\Gamma \vdash C : \mathtt{M}_{\epsilon_2} B}$