$False\Gamma \vdash false:Bool$

- Value terms
- \bullet Var x
 - lambda $\lambda x : A.C$
 - const C^A
 - unit ()
 - true true
 - false false
- Computation terms
- \bullet If $if_{\epsilon,A}v$ then C_1 else C_2
 - Application V_1V_2
 - Do do $x \leftarrow C_1$ in C_2
 - return returnV
- Type System
- $(Const)_{\Gamma \vdash \mathbb{C}^A : A}$
- $(Unit)_{\overline{\Gamma \vdash ():Unit}}$
- $(True)_{\Gamma \vdash true:Bool}$
- () (Var) $_{\overline{\Gamma,x:A\vdash X:A}}$
- (Weaken) $\frac{\Gamma \vdash x:A}{\Gamma, y:B \vdash X:A}$ (if $x \neq y$)
- $(\operatorname{Fn}) \frac{\Gamma, x: A \vdash C: M_{\epsilon}B}{\Gamma \vdash \lambda x: A. C: A \to M_{\epsilon}B}$
- $(Sub) \frac{\Gamma \vdash v : AA \leq :B}{\Gamma \vdash v :B}$
- $(Return) \frac{\Gamma \vdash v : A}{\Gamma \vdash \mathbf{return} v : \mathbf{M}_1 A}$
- $\bullet \ (\mathrm{Apply}) \tfrac{\Gamma \vdash v_1 : A \to \mathsf{M}_{\epsilon} B \Gamma \vdash v_2 : A}{\Gamma \vdash v_1 v_2 : \mathsf{M}_{\epsilon} B}$
- $\bullet \ (\mathrm{if}) \frac{\Gamma \vdash v : \mathsf{Bool}\Gamma \vdash C_1 : \mathsf{M}_{\epsilon}A\Gamma \vdash C_2 : \mathsf{M}_{\epsilon}A}{\Gamma \vdash \mathsf{if}_{\epsilon,A}V \mathsf{then}C_1 \mathsf{else}C_2 : \mathsf{M}_{\epsilon}A}$
- $\bullet \ (\mathrm{Do}) \frac{\Gamma \vdash C_1 : \mathsf{M}_{\epsilon_1} A \Gamma, x : A \vdash C_2 : \mathsf{M}_{\epsilon_2} B}{\Gamma \vdash \mathsf{do} x \leftarrow C_1 \mathsf{in} C_2 : \mathsf{M}_{\epsilon_1 \cdot \epsilon_2} B}$
- $\bullet \ \ \big(\text{Subeffect} \big) \frac{\Gamma \vdash C : \texttt{M}_{\epsilon_1} AA \leq : B\epsilon_1 \leq \epsilon_2}{\Gamma \vdash C : \texttt{M}_{e_2} B}$