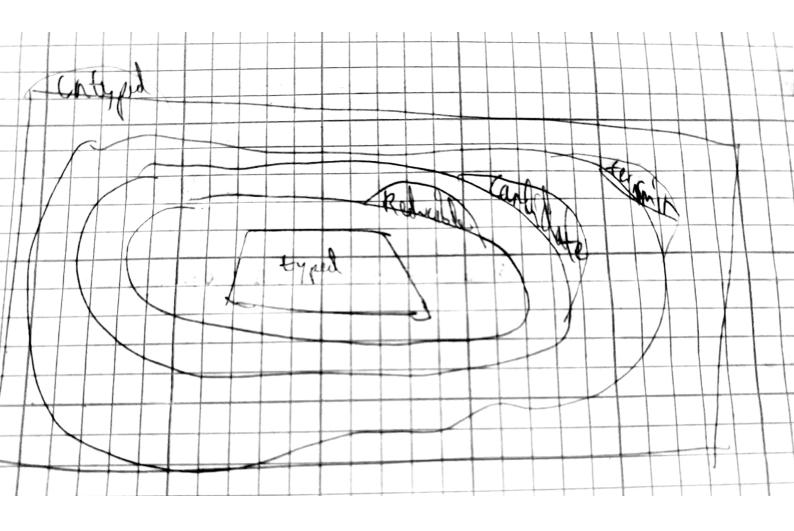
Toshow if . re; I then there I an e' s.t. e He' HA PS by placeting on the derivation I of . Heiz 9= · - e : Ti docont happen $\mathcal{D} = \frac{P_2}{P_3} \frac{P_3}{P_4} \frac{P_3}{P_4} \frac{P_4}{P_5} \frac{P_5}{P_5} \frac{P_5}{P_$ if e, then e, else e3 + if e, then es due e, suppose e'=6 : if(e,ie,ie) +> e's +je's (j=2 2 6 5 to che che j= else e, 76 0 i)(e, ; e, ;e) @ is because type safety cut happen λx.e →* λx.e Hs 5-ppse e/= 7x,e': e/e3 + (7x,e')e2 +> e/[e3/x] me don't know early about ell hoom: this post strategy won't work.

to Show attract 2 if . Te: T is larivable than there is an e' s.t. exte'to To Show e: T = e e [] = tend " where [] is "all programs of type Z", "the nearly of Z" Thought = force, labor the for expressions \$\Phi\$, \$\mathbb{Z}^* = \ferigon e | \frac{1}{2} \end{area} \tag{2} properties of expansion: · i) (Stemm C* Etemn $\cdot \in \mathcal{C}^*$ · (**= (* $[\tau, \rightarrow \tau] = \{e \in Term. | \forall e' \in [\tau], e e' \in [\tau_2] \}$ [[]] = {TESULST | V(x:z) ET x[T] E[[z]]} [[Le:1] = A+E[L] c(4) e[2] "Indoertel leman" aka adequey, sondress. if Treit is derivate than [Tre: 7] true Proof is by Whether on the given doritation of Mre: 2 D= Traction : Show [Traction is tre Support TELLIXITI. Show X[7] ELT] tre by depliffin of [17, 2:] D= Treist Thesis IH: [nreist->t] is free and [nres:] is free Show: [M+e, ex:7] Suprem de [n] show (e, ea) [v] e [z] = e,[v] e,[

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	Into 19 Daven 124	conth. of		
	17		IH: [[Γ, x: τ + e, τ]] à fre	
		$D = \frac{\Gamma, \pi; \tau + e; \tau'}{\Gamma + \lambda \pi e; \tau \rightarrow \tau}$	slan [n+xxie: Z-)Z']	4
			Suppose TEITI, show (7x.e)	
			$=\lambda_{x_0}$	((-3)
			€ [7-	~
			Syllose of E[I] spon (3x, ele	
			He[v,e	$\forall x $ $\forall x \in [\Gamma, x; \tau]$
		Ti. D. C. /		
		[z] < temn	"e is reductle"	_
	E3 lexpo	one br): e +>*e' and e' ∈ [c] th	$n \in \{ [\tau] \mid i,e,[\tau] \subseteq [\tau]$	
		N 4	· ,	
) - re: 7 is deriable the eef-	I and therefore es temporary,	
) . He: bool then there is a l	500 m 6 = True, takke s.t., ef-3 6	
	4	Ya, Z] = {e ETemin. Y Z	etyp et e [[t/2]]	
			atorial 1 4 11 75	2/1 - (/ AL
		th	is is too circular! the subtree II be done in order to get started.	101 14 unter you to astrony
		ths	is the native of impredicative pol	morpholin
	D			
		chability confidence is any set	ey expression C si, C = C =	
•	If fore	way T the reality of Z is a	reheability carllate	
				Mun
	1-00-1-	ν. π-11		remember N [x] = 00)
	attempto	You, T]= SeeTunil x	Z'ETY e T'E [T]	where of a context or
	1/60	8. setate a 10 set 10 s	√ '	lark. of type vortilles.
-	1 Coolla	1) a ac (on compass surjying chan pro	C I M - N I I I I I I I	
	0 °	Do [Va, T] = {e = Temin x Basetof expressions satisfyly extent pro TypeVar -> CR Lee CR B	set of all reduciblis conditation	
1	V (0, %)6	x) = ¢ 3) = Øβ ~line d ≠ p		
	(2)(B	3) = 8B ~ hred \$p		
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Into 14 Daves pg.5 [VX, T] = Sectemb (VT'cType. VCECR, eT' & [T] & [A] = { o eTypeUs -> CR} [O; r] = [V estst | (V(x:t) e [x[v] e [t]) ~ (Va e [), x[v] e Type) } HOELOD, YTE[O; []. [0; F +e: 7] = 40, TE[0; F]. e[7] [7] [0+7: *] = 400[0]. [7] E(R I) AHTIA is desirable than [AHT:A] is true we are it a style-kinded theory, i.e., A is vigue. Many hilded there's could have A, & ... D= Birres Yaz Ortis IN; [O; rre: Yaz] and [Ortis] Show [A: MLez: [7/2]] · suppose OE [A] and TE [O; [] Soy (ez')[v] = e[v] ['[v] [[[[c']]]] [T [[]] = [T] = [D = Boxilleiz IH: [D,x; Me;] is the Bill Axe! Vazz dor [A.D. A.] dor [A: M-1x,e: Ha, T] is the Exprese 6 & [O] and $\nabla \in [O; \Gamma]_{p}$ show that (/a,e)[v] = /a.e[v] e [vaz] Some t' of CECR (Nactor) T' Hely, T'A) J. 76 E[0,1]

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