27-1/	Function $f: D \rightarrow R$		
	Function f: D > R  Call f with something "like" D but not exactly		
	f: Animal = number (weight)		
	f (cats) f (dogs) CATETY Dog eTy		
	$T = B \left[ \frac{1}{\sqrt{1 - 1}} \right] \left$		
Воблических место на принтинент на принтинент на принтинент на принтинент на принтинент на принтинент на принти Принтинент на принтинент н	AL VAIT OF AIT		
representation of Animal			
	F: VA. num XA > num		
	Animal: = nom x JAIA Animal: = YA, nom x A especific		
	Cat:= num x str		
	Dog!= num x num		
* >			
	Add "Records" to the language		
	M:= \ < L = M, > M.L		
	L == some set (despirat from X and A)		
	V == 1,11 / (L=V, 1, 7		
	E:=   < k=V, , L=E, L=M, >		
	E[4Lo=Vo,,Li=Vi,,Ln=Vn> Li] > E[Vi]		
	XT=22.1. and X L&T, 111x7 (1) or ap) & your discussed		
	M+ Mo: To M+ Mn: Tn		
anno anno anno anno anno anno anno anno	MH < Lo=Mo,, Ln=Mn>: < Lo: To,, Ln: Tn>		
and control of the co			
	M+ M: < Lo: To,, Li:Ti,, Ln:Tn> <x2num, y:num=""></x2num,>		
	T+ M. L; : T; (X:num, y:num, z:num>		

17-2/ distance Along X: < X:ni	wm> = num
	m, yinom> => < xinum, yinum>
$i = \lambda p_i < \lambda = p_i \times$	
Subtyping Relation:	T≪T
LLo: To, iii, Ln: Tn >	< <lo: an,="" lm:="" tm="" to,=""></lo:>
if { Lo: To,, Lr	n: Tin 3 C ELO: To, Ain, Ln: Tn 3
(X: num, y: num, Z: num)	< < XINWM>
	new and
T+M:D-R T+N	V3 D' D' Says 'N B compatible"
M-+ (MN):R	old relation ( > becomes
	our new relation
$\Gamma \vdash D_1 \iff D_2$	( refl, trans, sym)
MHRI CORZ	S is an pantial order (refl, trans)
$\sqcap \vdash (D_1 \ni R_1) \longleftrightarrow (D_2 \rightleftharpoons R_2)$	Pi on L Dion R
	Rionh DiéRz Dz & D,
$P \mapsto P_2 \leq P_1$	RI ERZ VIII ERZ
	$R_1 \circ nR$ $D_1 \leq D_2$ $D_2 \leq D_1$
	$R_2 \leq R_1 \times R_2 \leq R_1 \times R_2 \times R_2 \times R_2 \times R_1 \times R_2 $
(Animal -> Animal) < (Cat -> (a	
let fiz in	Cat & Animal?
(f garfield), meow ()	
(Animal -> (at) (cut -> Anita)	? V Liskov Substitution
(f garfield), feed()	Principle
	(Barbara-Liskov)

27-3/

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< < p: < xinum, yinum7, nistr??
  < Lo: To, ..., Ln: Tn > < < Lo: To', ..., Lm: Tm>
  if {Lo, ..., Lm3 & {Lo, 11/2 n }
       and (Li=L';)=) (FB T') { Ti)
Class C with methods (m; D; > R; )
           and fields (Fj: Ti)
 < M: : Oc x D: ¬R:, ... 7 = C
 Oc = JA. A (internally: < F; : Ti, ... >)
  f: Animal = nom
class Point Epublic int x,y 3; fi Point -> num
 class Pointe [public mt x,y] i f (new Pointe (5, 7))?
  JAVA + (++ use *nominal * subtyping
Go, Ocamu, Haskell use "strictural" subtyping (so-called "dick" typing)
 T 1= .... | YA.T | YAST. T'
               y variable A
 Java: class Binary Tree < X implements Ordered> [ ... ]
                              M+M: YASF, T' TSF
    F-bound Polymorphism
                              P+M[T]: T'[A←T]
Dependent Types: T:= ... | T = T | (X:T) => T | (PX)
 quicksont: (1: List num) > (sonted version of 1) Cog, HOL
                                Isabelle, Agda, Idni,
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