Hindley-Milner type inference exp := $f Un \ x \rightarrow exp$ Jubset of $Vntyped \ \lambda$ -calculus type rules: same as ones in the selicks from Twenday. F / x:t Var: T+x:t T(x)=t axiom App: I +(f:s) >t [+as = iscn: f toke in a of types T + fait but return type is t. [well-formed type s Fun: Nf 5 I [x >s] Feit T + fin x →e:s→t T Var: TArmu:

Infering a type or function: After principal type ut a term a type of a term s.t. substitute we can substitute another Well-formed the w/ the principal type - Start by introductly type variables and constraint yetern. empty + e : la EUse inference rules bottom-Up. eg. (fun x > e): la -> Introduce 16, 16. Prove that T(Solving type constraints a = b -> Removie be from the system by nemority w/ a. (a >> b) = (c >> d) -> peplace w1 a=(16=d. Well-known fact: