New topic: Type inference
What type inference accomplishes

-> (define double (x) (+ x x))
double ;; uScheme

-> (define int double ([x : int]) (+ x x))
double : (int -> int) ;; Typed uSch.

-> (define double (x) (+ x x))
double : (int -> int) ;; nML
What else type inference accomplishes

-> ([@ cons bool] #t ([@ cons bool] #f [@ '() bool]))
(#t #f) : (list bool) ;; typed uScheme
-> ( cons #t ( cons #f '() ) )
(#t #f) : (list bool) ;; nML
How it works

1. For each unknown type, a fresh type variable
2. Every typing rule adds equality constraints
3. Instantiate every variable automatically
4. Introduce polymorphism at let/val bindings
Examples

At the board...