[10-10-18] Basically just review of prev, lecture See the code for implementing substitution! Recall: Environments are collections of multiple bindings
7 things you can do with an Env:

· look up what wars have what values (lookup keyword)

· extend the Env. (usually dy "cous"ing onto it...) Recall: let (and where I think ...) clauses basically allow you to declare local warrables Recall: Scope pretty much works the way agoud expect it to...
"Really, every language you know uses static scoping...
you already know what static scoping is." "I substitutions and Environments are very similar notions."

Both are ways of handling variable declarations Recall: Undefined Variable Error is exactly what you'd expect, so don't worry about it, you abready benow this. Examplex: (shorthand for this) (x=Z)
(y=x+1)

Declare "x" (Number 2)

Jeclare "y" (Add (Variable "x") (Number 1))

Declare "z" (Add (Variable "y") (Number 2)) > Multiply (y = x +1 z = y +2 -x • y • z y = x + 1 y = 2 + 1 y = 3 and z = y + 2 z =keyword: -> elf you give me Just V, ell return V.

elf you give me Nothing, ell return an error a way of imposing a scope on some code that creates bindings by declaring variables (or something like that.) "Shadowing" complisted ... When there are two bundings for the same variable, what do you do? Basically, the most reconsidered beinding "shadowa" (more like x → 9 "overshadows") the first binding, making it go away Var x = x · x [] × 📂 81 162