Parsing Scopins It/let assignment Parsing how to handle (define x '(
TTTT 2(a b c) stack detine normally, we would push onto stack \emptyset So pop that is there (quote (a 6 d) wrop whits there quote 1c b c

Reminder: (abc) is just shorthand (quote (a b c)) I saw "special casing" individual Symbol vs lists (abc) rether than handle separately ... just redefine "push on the strick" as "before push on the stack, see if a single such is there, if it is. Popit, then wrop in (quale ---) and push"

For scope.scm, if it displayed a Z, is that static or (dynamic)
Scoping? What does Scheme actually do? A (static scoping Static Scoping - a voicble con be determined bused on structure of program Etypically by nested blocks of some sort) Dynamic Scopins - based on orde of execution of code

why was it originally fairly popular in early proglanguages, and what were the problems?

-intuition

- Simple to build

Why was it a badidea (often)?

To debug fun Z you to need to find x. To find it, need to know all possible paths through the code that call fun Z and what variables x they create as they set there.

With static scopins, if you ask "which x"? There's only one answer, you can find it by looking at the code directly

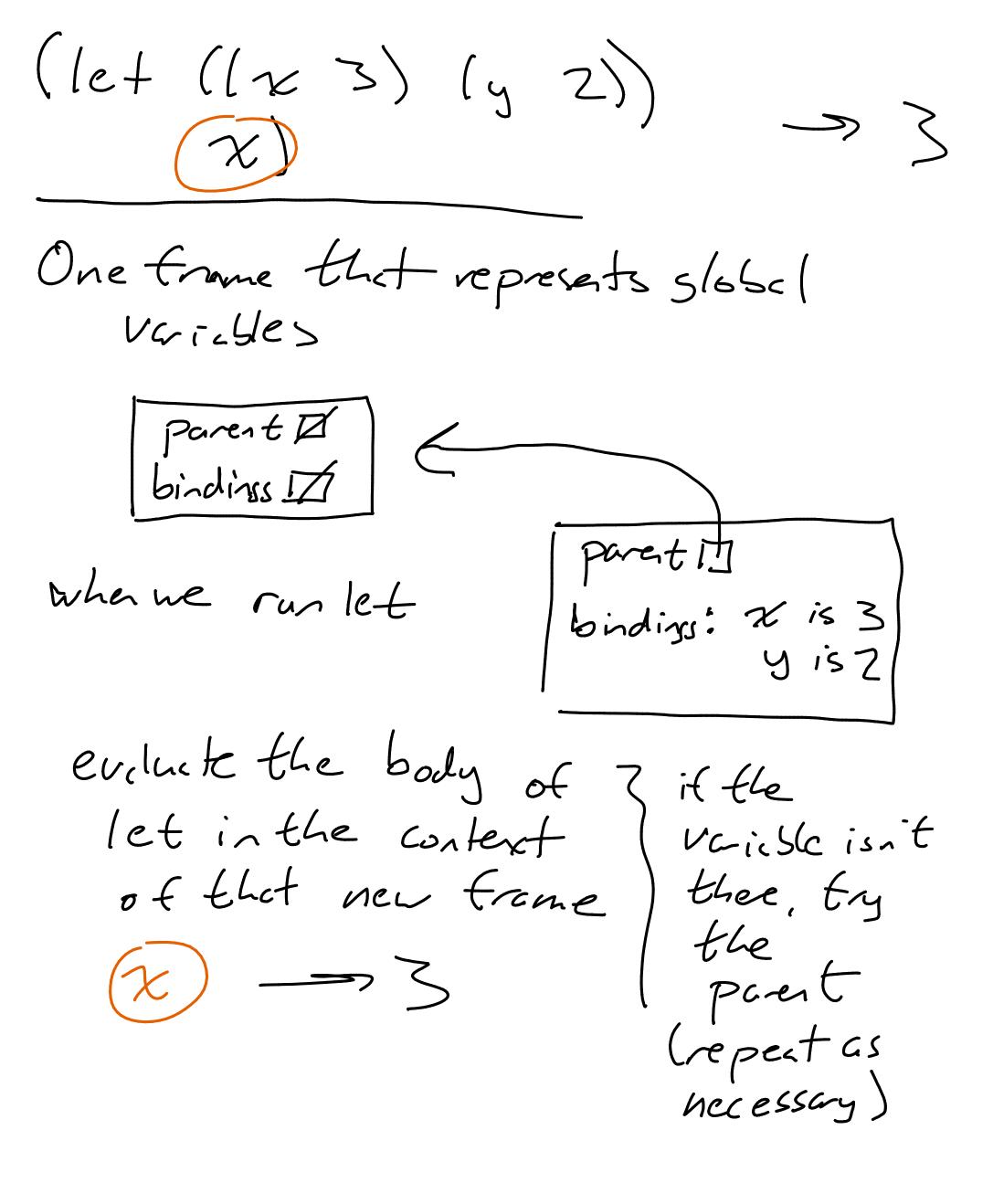
Dynamic Scoping still lives w/ us
Bush does

Perl does both, depending on how you declar the variable

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going to	be i	ntapre-	Fing	Scheme	J
code		•	•		

Following parser - tork from the code you've written (going individual)

How do we implement let in Scheme? (statically scoped) we store local variables in a Frame. A frame is just a list of variables and their values a point to a point frame, which represents the enclosing block of code,



(define z #t) (let ((x3) (y 5)) (if z x 9/05 4

Tythan (scope.py) has no way of specifying variable declactions. Ino let var make, define) In Python, in a function: - a variable that is only ever read Lost writter) in that functions reters to a more global one it there is one

- a vaidble that is written to is