| Quote assignment | |
|---------------------------------------|-----|
| Catchup: globels in Python | |
| Lambdus in other languages | |
| Whit quote does // (define a 3 | ,) |
| a Enotea) | |
| | |
| 3 | |
| (quote) -> | |
| does not evaluate | |
| (quote (+ 1 2 3)) | |
| $\frac{1}{2}\left(\frac{1}{2}\right)$ | |

Normally, u/ a Scheme expression (define x (+ 1 Z)) d evc l the does define (if #t (+17) Z) Peval (quote (define 3 car)) Los (define 3 car) Assignment: implement quote

The good news: quote essignment takes vey little code to accomplish The "watch out" news It's ecsy to get it wrong, and compasche in your printing code 3) (znote quote

Complexity is you enemy. Tou will brite code on easy cases, and fails on had cases. (if #t (let ((x3)) x) (quote 7) What if it works ul busic exemples? but the one above doesn't? Bedidec is to corve out exceptions e.g. "Oh, let's do aspecial care for let inside if"

```
this refer to

whicheve x

def doit():
    print(x)

CPython does static

Scopins, so I look
    outride function,
    and find the global)
```

| In Python, it you read a voicble i. |
|-------------------------------------|
| In Python, it you read a voicble i. |
| a tenction, you tind the var |
| wherever it may exist subject to |
| scoping rules. |
| - if you write to it, get a new |
| local variable |
| -unless you indicate it to |
| beg10ba1 |
| |
| most ethe largs use a declaration |
| int x, |
| val x=Int explicitly |
| (let (1x-)) \ creck a |
|) vaidle w/ |
| a keyword to |
| indicate |

```
x = 1

def doit():
    global x
    x = 2

doit()
print(x)
```