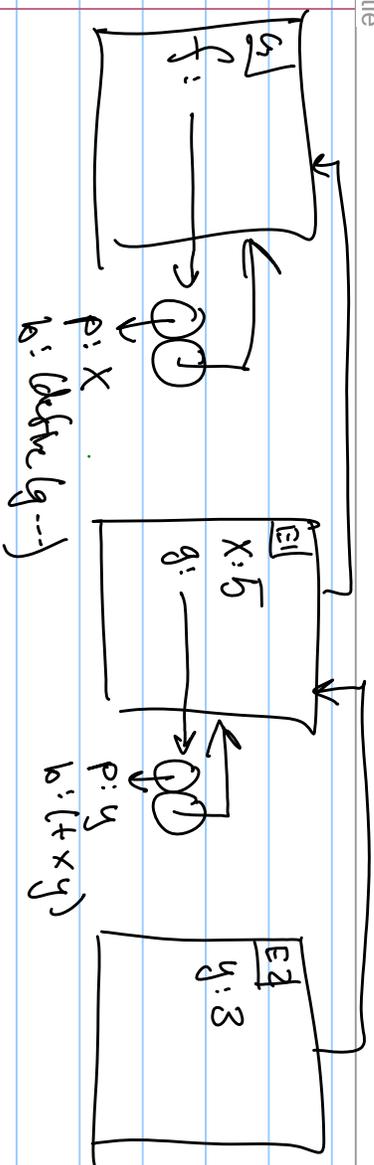


Environments & Local State 2

Note Title

7/15/2010





(cons 9 #t)
(9 . #t)

atoms

constants
9, #t
symbols
t, square

pairs → procedure call

λ
Primitive
or
Special Form

define (foo x) ~)



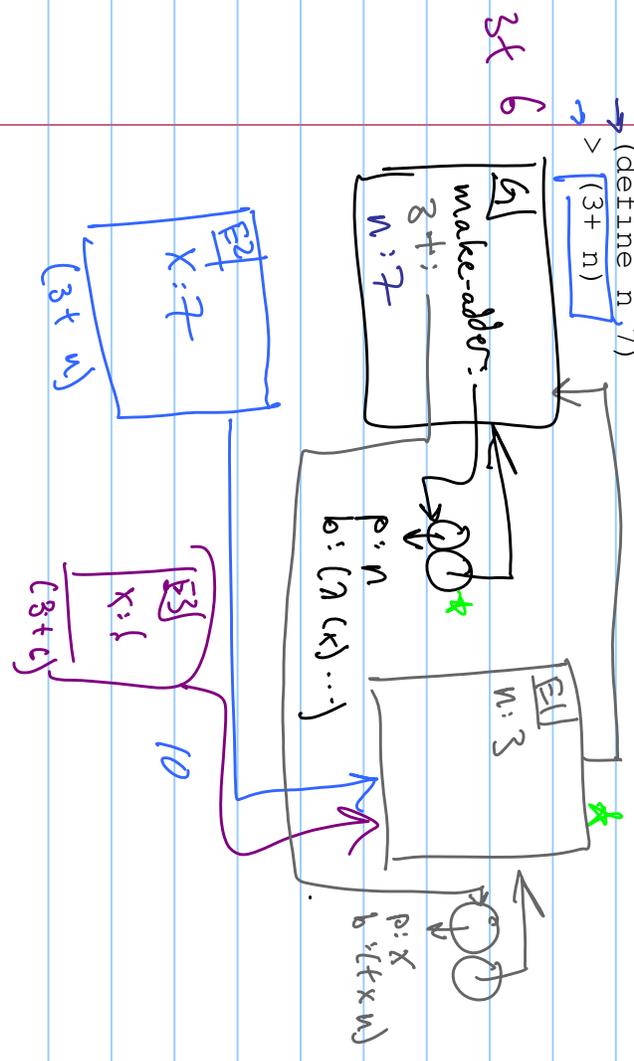
define foo (lambda (x) ...))

```
(define (make-adder n)
  (lambda (x) (+ x n)))
(define 3+ (make-adder 3))
```

1

```
(define n 7)
> (3+ n)
```

→ (define (make-adder n) → define make-adder
 (lambda (x) (+ x n))) (λ (n) (λ (x) ...))
 → (define 3+ (make-adder 3))
 → (define n, 7)



;;;; In file cs61a/lectures/3.2/count4.scm

```

→ (define make-count
  (let ((glob 0))
    (lambda ()
      (let ((loc 0))
        (lambda ()
          (set! loc (+ loc 1))
          (set! glob (+ glob 1 (define wc (make-count))
                    (list loc glob)))))))))

```

Instance

