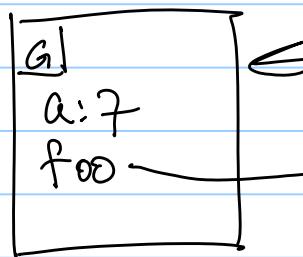


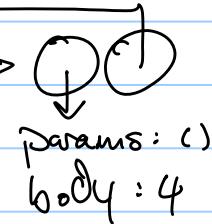
Note Title

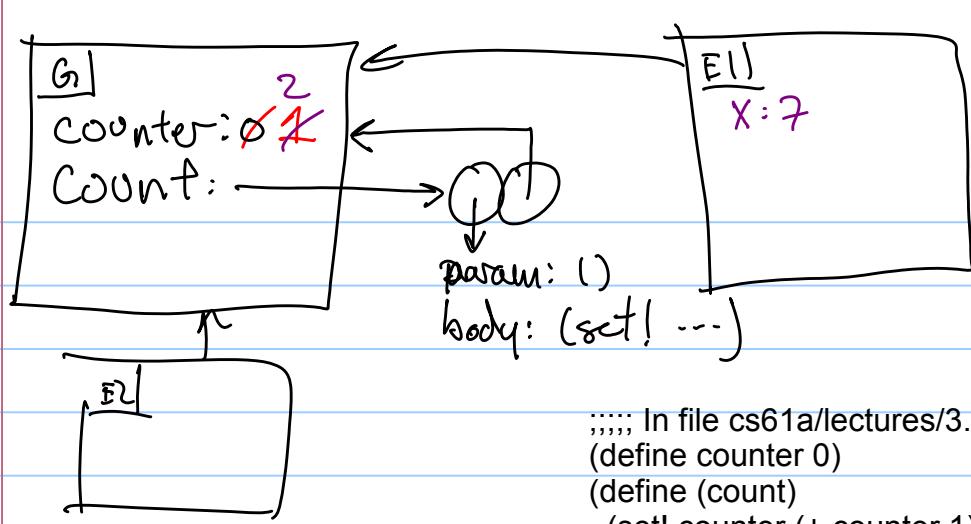
(define a 7)

7/14/2010



(define foo (lambda ()))
params: ()
body: 4



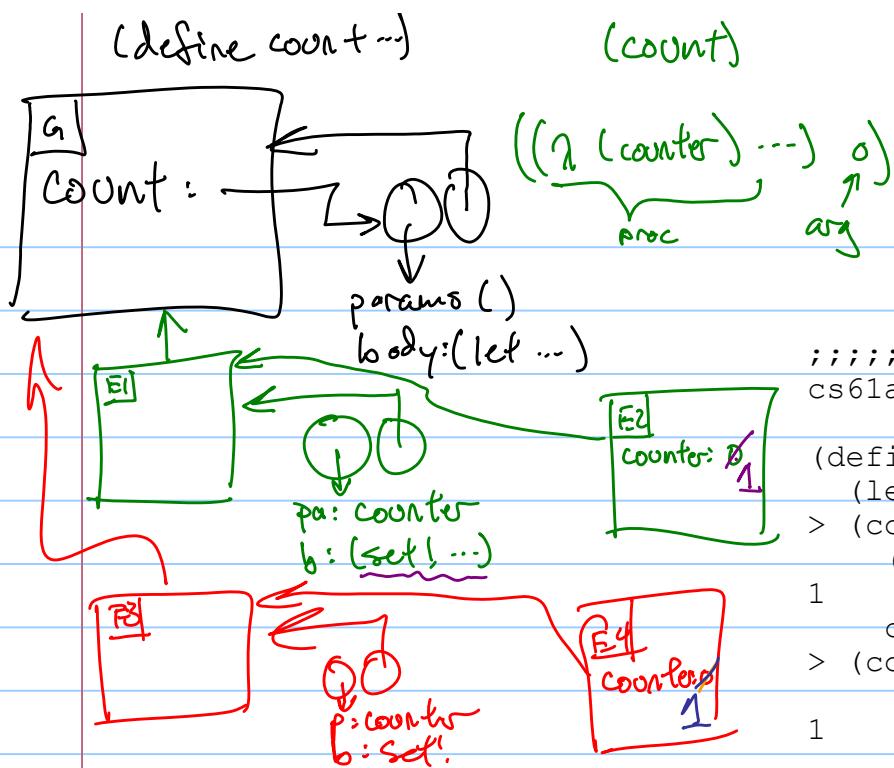


```
;;;; In file cs61a/lectures/3.1/count1.scm
(define counter 0)
(define (count)
  (set! counter (+ counter 1))
  counter)
> (count)
1
> (count)
2
```

(let ((var1 val1)
 (var2 val2))
 body)

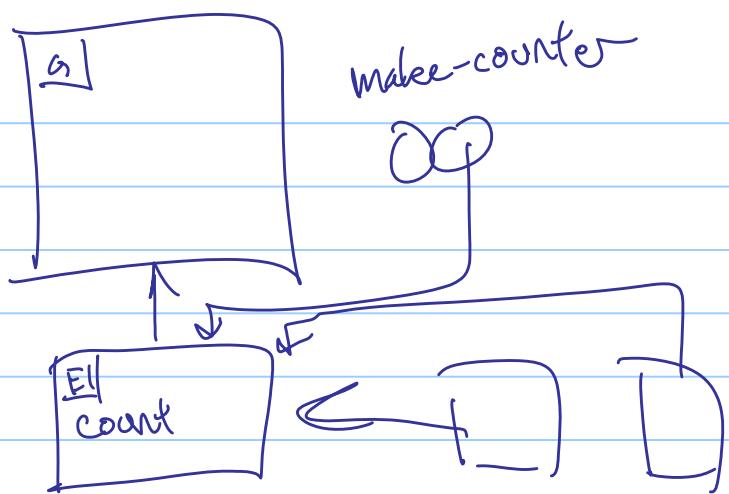


((λ (var1 var2) body) val1 val2)

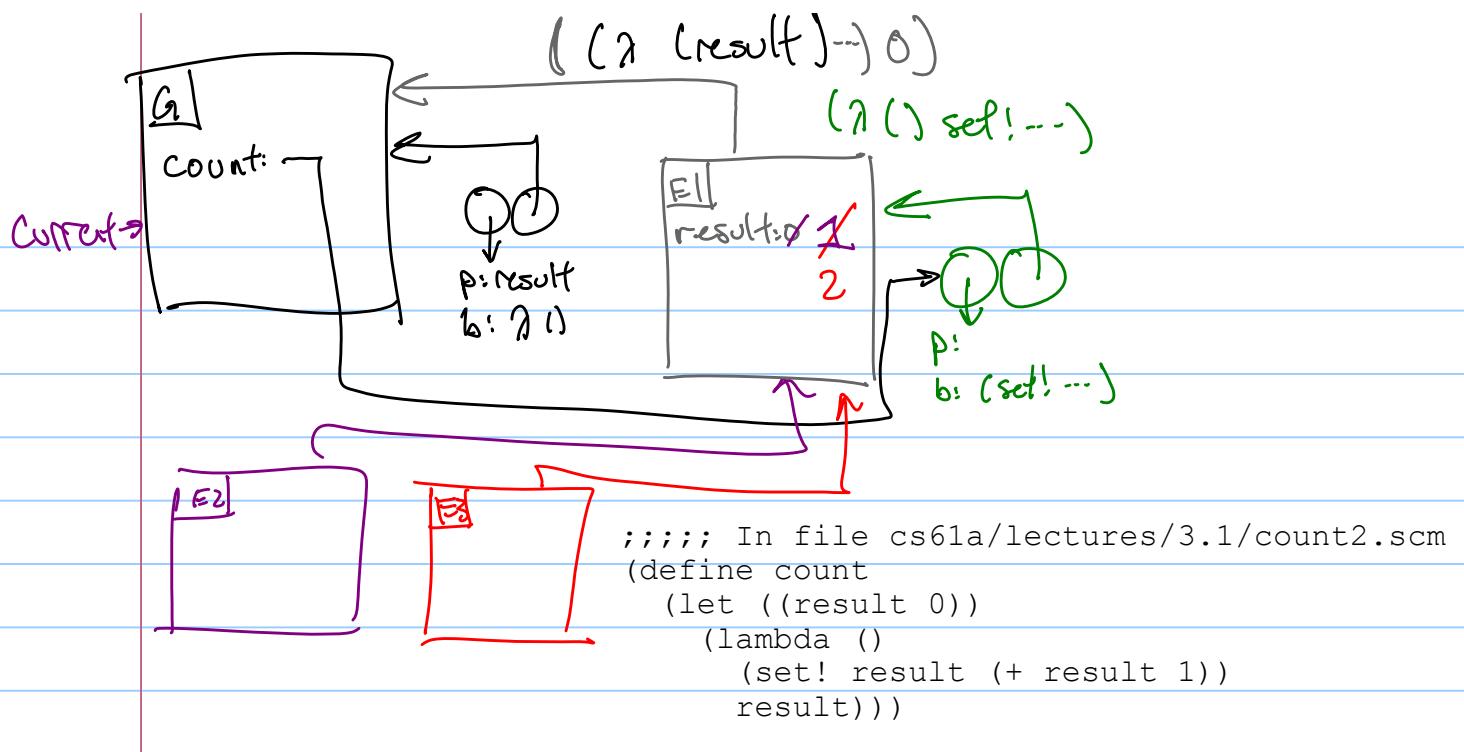


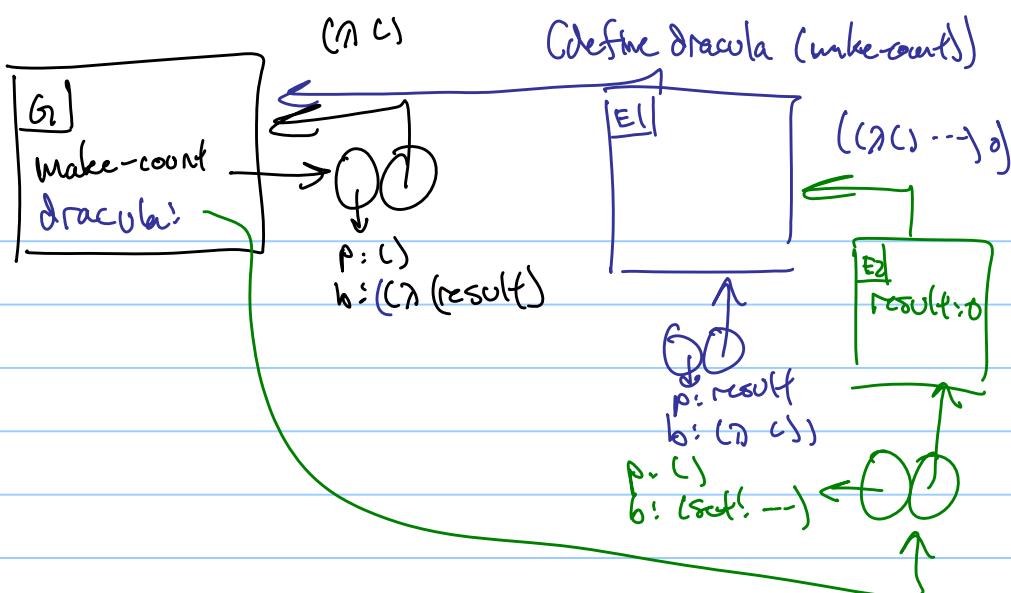
;;;;; In file
cs61a/lectures/3.1/count.lose

```
(define (count)
  (let ((counter 0))
    (count)
    (set! counter (+ counter 1)))
  counter)
(count)
1
> (count)
```



What we want





```
;;;;; In file cs61a/lectures/3.1/count3.scm
(define (make-count)
  (let ((result 0))
    (lambda ()
      (set! result (+ result 1))
      result)))
> (define dracula (make-count))
> (dracula)
1
> (dracula)
2
```

