


```
Try It!

• Try to use this new cons!

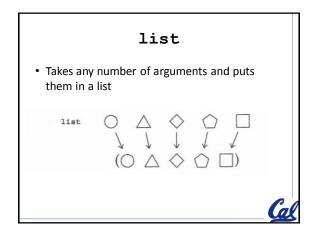
Does it work the same way as before?

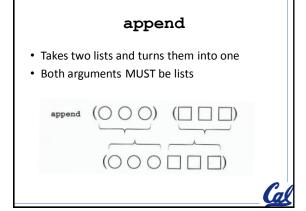
A) Yes

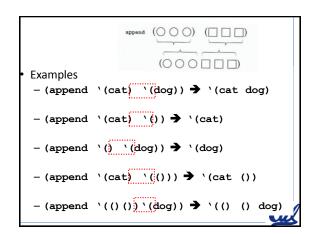
B) No

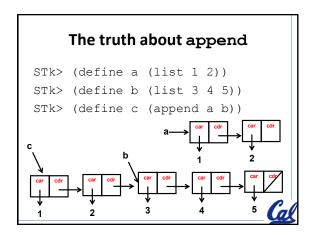
C) I don't know
```

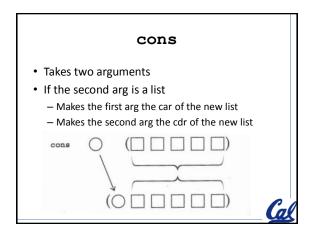


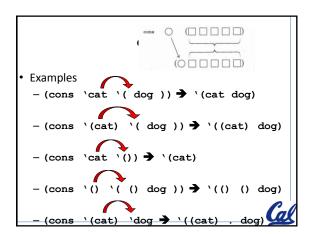








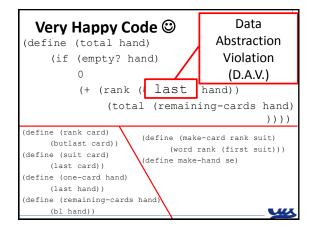




Data Abstraction Goals

- To talk about things using *meaning* not how it is represented in the computer
- To be able to change how it is represented in the computer without people who use our program caring

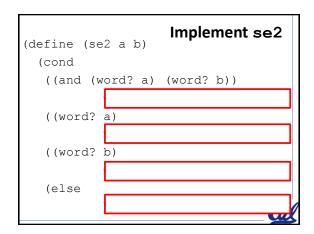




Use the right one or it is a DAV				
	sentence & word stuff	list stuff		
	first	car		
	butfirst	cdr		
	last	8		
	butlast	8		
			Cal	

Use the right one or it is a DAV

sentence & word stuff	list stuff	
empty?	null?	
sentence?	list?	
item	list-ref	
sentence	append, cons, list	



Modify this to work with lists (without sub-lists)

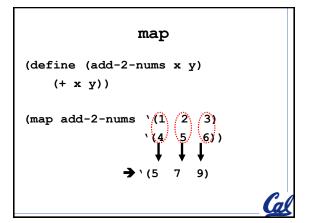
map2 (like every)

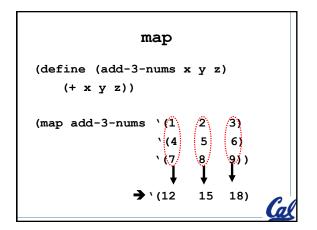
The real map

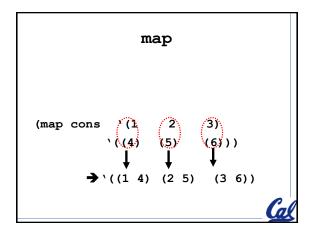
(map procedure list1 list2...)

- procedure
 - a procedure that takes in some # of arguments
- Some # of lists
 - The number of lists MUST match the number of arguments that the procedure takes

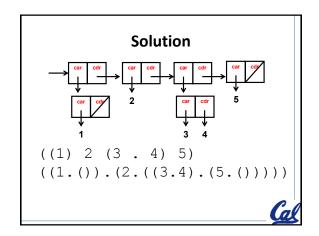








Solutions



```
Modify this to work with lists
(without sub-lists)

(define (square-sent sent)

(if (null? sent)

sent

(CONS

(square (car sent))

(cdr sent)))
```