

```
fun append (xs,ys) =  
  if xs=[]  
  then ys  
  else (hd xs)::append(tl xs,ys)  
  
fun map (f,xs) =  
  case xs of  
    [] => []  
  | x::xs' => (f x)::(map(f,xs'))  
  
val a = map (increment, [4,8,12,16])  
val b = map (hd, [[8,6],[7,5],[3,0,9]])
```

Programming Languages

Dan Grossman

Using Blocks

More strangeness

- Callee does not give a name to the (potential) block argument
- Instead, just calls it with `yield` or `yield(args)`
 - Silly example:

```
def silly a
  (yield a) + (yield 42)
end
```

```
x.silly(5) { |b| b*2 }
```

- See code for slightly less silly example
- Can ask `block_given?` but often just assume a block is given or that a block's presence is implied by other arguments