Data Abstraction

- Understand the abstraction and prompt before writing corresponding procedures
- When changing things, only change abstraction not the procedures

Square-list

- Similar thinking to reverse
- Comes up often
- How to solve
 - First condition → empty
 - Second condition → number
 - O Else, cons the func invoked on car and then cdr
- Can also abstract to work on several procedures, not just square

Map

- Applies procedure to every element of a list
- Often use lambda instead of defining a helper

Conventional Interfaces

- Use accumulate to replace other functions
 - o Map, length, append
 - This was especially hard (2.33)
- As well as to define other functions
 - o Sum-odd-squares, even-fib, etc.
- Apply op to sequence until it is empty, then use initial
- Accumulate, map, lambda together can be very powerful in creating functions

Map & Accumulate

- Write a helper function and call it in map
 - In else clause: (op (func (car x)) (func (cdr x)))

- Or use lambda
 - o In else clause: (func x)