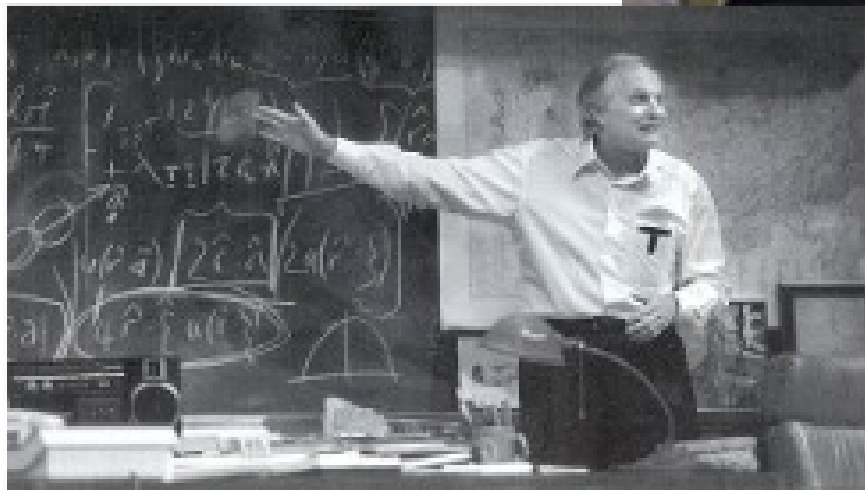


Now playing: JS Bach, *The Art of Fugue*

# Lecture 5: Recurring Recursively



Richard Feynman's Van  
(parked outside the theater  
where QED is playing)



Alan Alda playing Richard Feynman in QED



**CS200: Computer Science**  
University of Virginia  
Computer Science

David Evans

<http://www.cs.virginia.edu/~evans>

# Menu

- Fibonacci Returns
- GEB Chapter V
  - RTNs
  - Music and Recursion

# Defining Recursive Procedures

1. Be optimistic.
  - Assume you can solve it.
  - If you could, how would you solve a bigger problem.
2. Think of the simplest version of the problem, something you can already solve. (This is the **base case**.)
3. Combine them to solve the problem.