CSE 70: Learning Styles and Problem Solving

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Facts about learning!
Learning Types

- Hearing
- Seeing
- Communicating
- Doing

Effectiveness:
- hearing only: ~20%
- seeing only: ~30%
- hearing and seeing: ~50%
- hearing, seeing, and communicating: ~70%
- hearing, seeing, communicating, doing: ~90%
Whatever you see/hear in class, you should do yourself 5-10 times and discuss with others to become proficient in it.
Approach to Problem Solving!
Pólya (1945): How to Solve It!

1. Understand the Problem

2. Make a Plan

3. Carry out the Plan

4. Look back and improve
Build a Mental Model of the Problem and its Solution along the way!
In Software Engineering

1. Requirements Analysis

2. Design

3. Code

4. Iterate
Be aware of your skills and where to improve!