

While waiting for class to start, chat with a neighbor:

- Name (pronouns optional)?
- Fun thing you did in JTerm?
- Class you are excited about (besides this one 😊)?



Keep the conversation going or turn to a new neighbor!

CS302 ALGORITHMS + COMPLEXITY

Learning Goals (Today)

- Define Algorithms
- Introduce Course Structure

Announcements

- Office Hours (OH) Mon 2-3:30, Thurs. 3:30-4:30, Fri 11-12

- Upcoming Assignments:

→ Due Today: Getting to know you survey
OH Meet + Greet Sign-up
Syllabus Discussion

→ Due Sun: PSet 1 Rough Draft

- Course Assistant Drop-in Hours TBD

- Lecture notes, video

- Weekly schedule

- Summer research

- Friday 12:30, CCI alumni talk on ML for biotracking (Handshake)

← only accessible to our class

Algorithm def: A finite, clearly defined sequence of instructions for carrying out a task. (Learned 1XX, 201, 202, etc)

This class: sophisticated techniques for creating fast algorithms

Plan for Semester

Frameworks:
Paradigms

Divide +
Conquer

Greedy

Dynamic
Programming

Tasks:

Describe
(pseudocode / java)

Prove
Correctness

Analyze
runtime

Consider
Ethics of
Implementations

+ NP-completeness (comparing difficulty of problems)

Learning goals: go/cs302

Learning

When you fail/make a mistake...

What helps you get excited to get back up
+ try again?

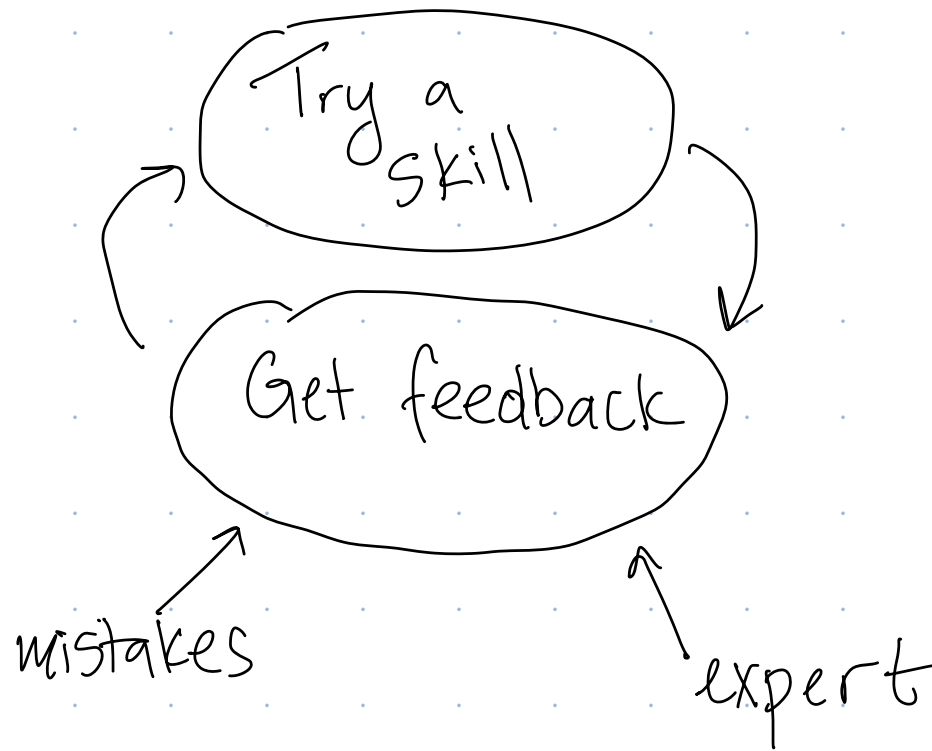
(Try to give a specific example from your life)

↙ ↓ ↓ ↓
Sports, social, academics, art

① Share with neighbor

② Put nugget of wisdom on board

Learning



- P Sets for effort
- Reattempts to demonstrate skills

[We will discuss syllabus next class.]

Announcements ↴