QND Computer Science Day 0

Mr. Schmidt

Welcome!

- Agenda
  - Who am I?
  - Why am I here?
  - Why should you care about Computer Science?
  - Activity

Introduction

- University of Illinois

- Microsoft

- Ocient

- Google

- Side Projects
  - Fidgets
  - Scoreboard
  - Planetary Lifts

Why am I here?

- Computer Science can be hard to self-teach
- CS is for everyone!
  - Have an open mind

What will we be doing?

- 4 Weeks of intro to Computer Science
  - Swift
- Games
- Wordle
- Code Art
- **No homework!**

Why CS

- 3 reasons

Why CS?

- Fun
  - Creative problem solving
    - Every program is a puzzle
  - Artistic expression

Why CS?

- Great Careers
    - You should be thinking about career options
    - Software engineers are in high demand
        - High pay, great benefits
- Differentiator for any field!

Why CS?

- Technology Literacy
- We blew it
  - Everything is too complex, designed to extract attention and money
  - It's probably not going to get better

Questions?

Your First Program!

- We will write many programs

- Programs are kind of like recipes

- Give the computer instructions, it performs them

- Computers are dumb

- It does *exactly* what you tell it to do

Your First Program!

- Write a "program" to make a PB + J sandwich

- I will execute it

- Groups of 3

BE SPECIFIC

ROUND TWO

- Let's fix our problems together

DOWNLOAD SWIFT PLAYGROUNDS

We'll need it today!