

Discussion 01

Number Representation

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Slides available at `teaching.aditbala.com`

About Me

- Grade: Junior
- # Teaching Sem: 4
 - 61a: 3
 - 61c: 1
- Major: Computer Science
- Origin: Maryland
- Hobbies:
 - Reading, Gymming, Bouldering (?)

Announcements 📢

Agenda

- Intro
- Unsigned
- Sign-Magnitude
- 2's Complement
- Q & A

Number Representation

- Everything is bits!
- Numbers
 - 19 -> 0b00001011
- ASCII Characters
 - Even letters and punctuation can be represented with bits
 - a -> 0b1100001
- Computer Instructions
 - 3 + 0 -> 0b000000000001100000000000010010011

Converting

- Base a to decimal

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