Please say your name!

CS1800 Fall 2026

Day One

Usually...

Usually...

- Agenda/Review
- Some talking
- Some problem-solving

Today

- Introductions
- CS1800 Q & A
- Shortest discrete math intro ever

Today

- **Introductions**
- CS1800 Q & A
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1. Introductions

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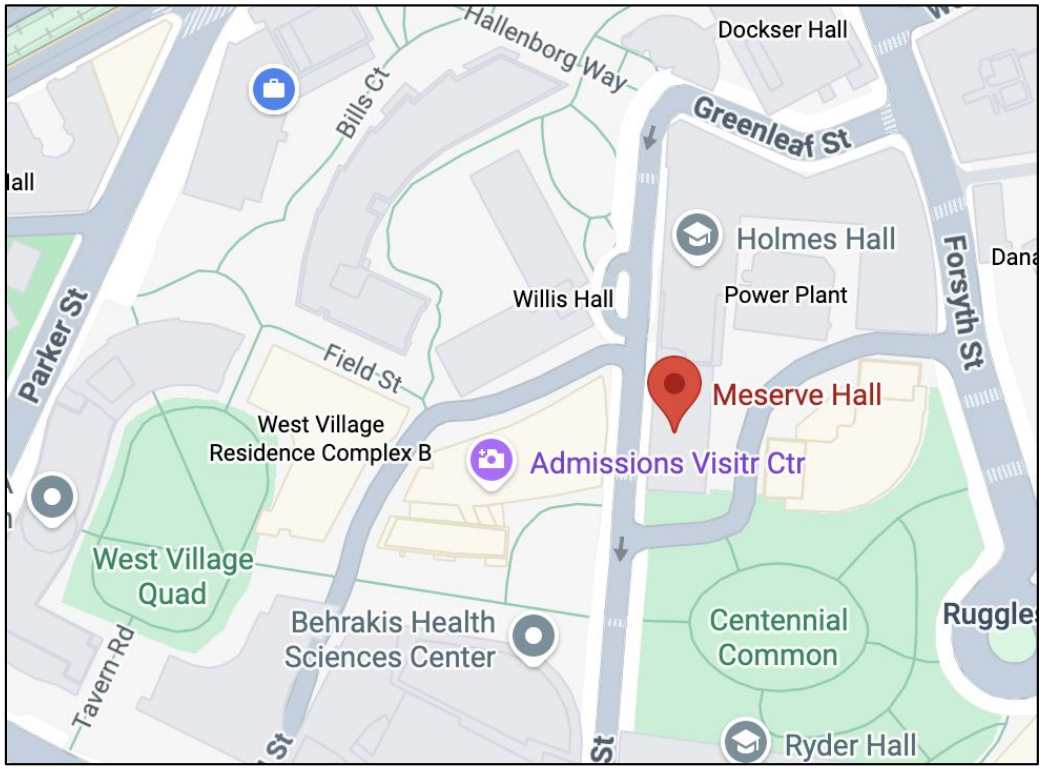
Inclusive Classroom

- from beginning - CS1800
  CS2000

- Please ask, answer!
- names, pronouns

1. Introductions

- Pronouns: she/her. Call me **Laney**
- Contact:
  - laneys@northeastern.edu
  - Office Hours
    - T 9-10am, F 4-5pm
    - Meserve 054 & Zoom
    - Near your Khoury advisor



1. Introductions

What is everybody asking rn...

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- **How was your summer?**

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  - Saw NKOTB in concert
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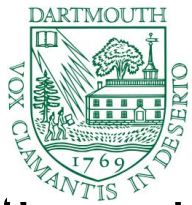
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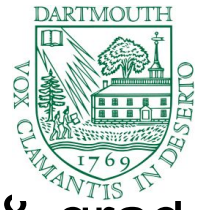


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  - Dorchester (but Prof. Yildirim really does live in a dorm!)

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- **Why did you choose Northeastern?**

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- **What dorm are you in?**
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- **Why did you choose Northeastern?**
  - CS for Everyone :)

1. Introductions

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Learn about 2 people...

- Names (pronouns?)
- CS/AI/Cyber major/minor/trying out?
- Most recent (shareable) pic on your phone?

Agenda

1. Introductions
2. **CS1800 Q & A**
3. Shortest discrete math intro ever

About CS1800

- pencil + paper!

https://course.ccs.neu.edu/cs1800

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- What are we doing here anyway?

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Squishy to Proveable

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What Can We Solve?

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It's math, but it's logic

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Dates!

About CS1800

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About CS1800

Sep 18th

First PS due

11:59pm

https://course.ccs.neu.edu/cs1800

About CS1800

Sep 18th	Sep 17/18th
First PS due 11:59pm	First recitation (CS1802)

https://course.ccs.neu.edu/cs1800

About CS1800

DAS boston@northeastern.edu

Sep 18th	Sep 17/18th	Oct 2nd
First PS due 11:59pm	First recitation (CS1802)	Exam #1 in lecture

https://course.ccs.neu.edu/cs1800

About CS1800

Sep 18th	Sep 17/18th	Oct 2nd	~~22~~ Mar 1st
First PS due 11:59pm	First recitation (CS1802)	Exam #1 in lecture	Project proposal due by team!

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About CS1800

Sep 18th	Sep 17/18th	Oct 2nd	??
First PS due 11:59pm	First recitation (CS1802)	Exam #1 in lecture	Project proposal due

11/6 exam 2

12/4 exam 3

Date TBD: 12/14-12/20
Final Exam

https://course.ccs.neu.edu/cs1800

Are you on Campuswire?

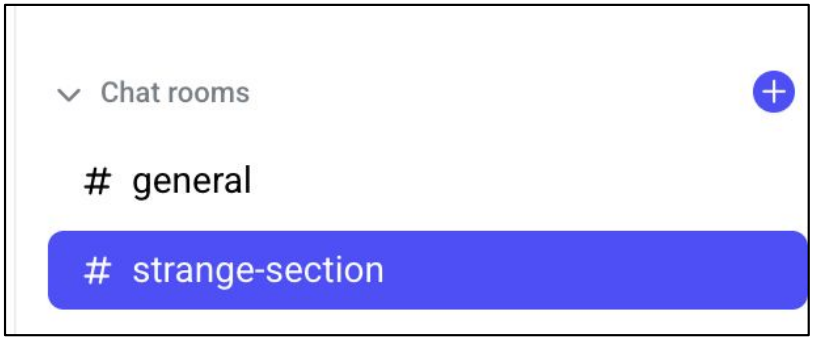
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Q&A

Think or confer about a question you have about the syllabus, course policies, content, etc.

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Today

- Introductions
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- **Shortest discrete math intro ever**

Discrete Math Intro

convert files

access to internet

sms (text)

2nd www

remove files

communication

arithmetic

store things in memory

create files

What does a computer need to be able to do?

play music

encryption

render images, graphics

organize data

accept inputs

send files

download files

save/access files

run programs

What tools does it have to do all that?

↳ 0s, 1s

bit: binary digit
0, 1

CPU - brain, instructions

* memory - stores data

microchip 

on, or off
1 0

1850s
• Boole
True, False (values)
And, or, not (operations)

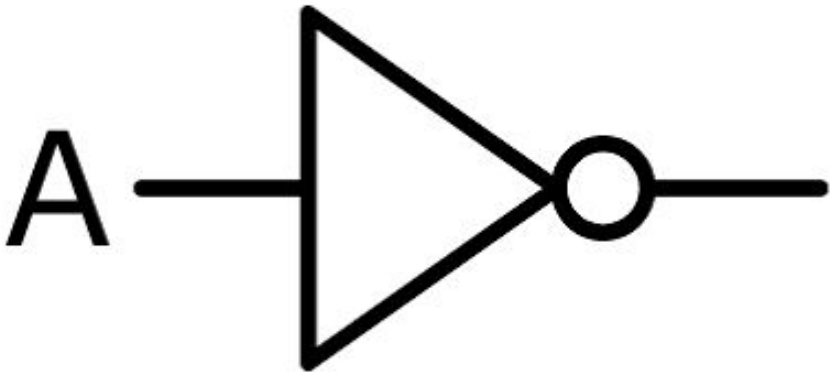
→ 1930s
Shannon
1/0
on/off
digital

→ 1947
• transistor

→ 195x
• microchip

What can we do with these tools?

AND, OR, NOT – gates on transistors!



not gate

input = A

A could be 1, 0

A	NOT A
0	1
1	0

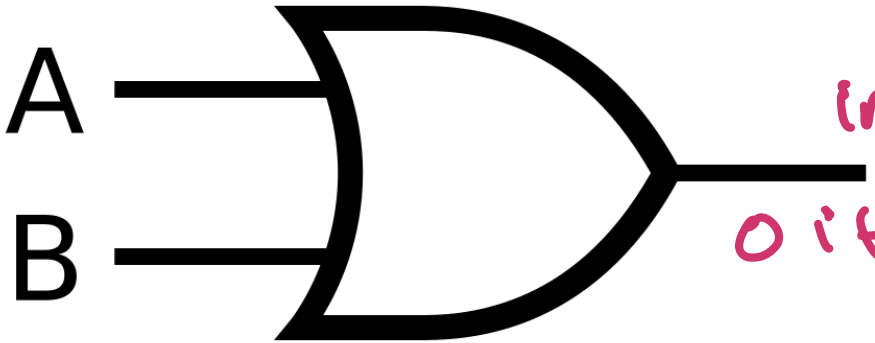


2nd gate

inputs = A, B

1 if A = B = 1

A	B	A AND B
0	0	0
0	1	0
1	0	0
1	1	1



or gate

inputs A, B

0 if A = B = 0

A	B	A OR B
0	0	0
0	1	1
1	0	1
1	1	1

That’s it for today!

(First recitation next week. PS1 due 9/18.)

(Come up & say hello before you leave, and/or show me pics of your pets :)