

LEC 00

CSE 121

Welcome!



Questions during Class?

Raise hand or send here

sli.do #cse121



BEFORE WE START

***Talk to your neighbors:  
Introduce yourself!***

*What is your name? Major?  
What did you do over winter break?*

Music: [CSE 121 26wi Lecture Tunes](#) 

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**Instructor:** Miya Natsuvara

<b>TAs:</b>	Amogh	Hayden	Anum	Sam	Shayna
	William	Aki	Abdul	Ethan	Jesse
	Johnathan	Spencer	Janvi	Jessica	Minh
	Anant	Savannah	Navya	Paul	Cayden
	Reese	Tamsyn	Ruslana	Carson	

# Lecture Outline

## Today:

1. Introductions :)
2. About this course
3. Our learning model
4. Culture and community
5. Tools

## On Friday:

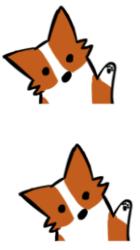
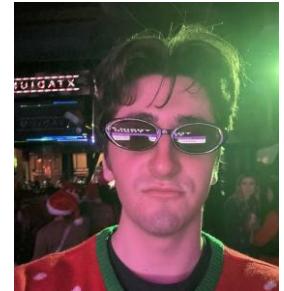
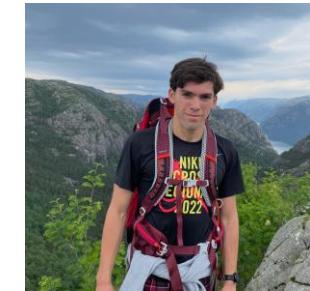
1. Our first program!
2. Assessment and grading
3. Collaboration

# Hi, I'm Miya! (she/her)

- Assistant Teaching Professor
- Frequent intro CS instructor
- Works in areas of CS Education, Accessibility
- Previously:
  - Grew up in Washington state
  - An undergrad and grad student at UW (Math, Computer Science, American Sign Language)
  - A software engineer at Microsoft on the Visual C++ Libraries Team
- Non-CS hobbies: knitting, baking, playing with my very cute corgi



# Meet your 24 fabulous TAs!



# Agenda

## Today:

1. Introductions :)
2. **About this course**
  - Learning objectives
  - Similar courses
  - Course components
3. Our learning model
4. Culture and community
5. Tools

## On Friday:

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# Learning Objectives

or, “*What will I learn in this class?*”

Bottom line:

**Intro to Programming, part 1**

Not quite:

- “How do computers work?”
- “Intro to the Java language”
- “All you need to program”
- Math!

## Learning Objectives:

1. Computational Thinking
2. Code Comprehension
3. Code Writing
4. Communication
5. Testing
6. Debugging
7. Ethics & Societal Impact

# Other Similar Courses

Course	Good choice if...
CSE 121 (this is us!)	<ul style="list-style-type: none"><li>• You've never programmed before AND</li><li>• You are, or want to be in a major such as CS, CE, ECE, Info, etc. that requires Java programming</li></ul>
CSE 122	<ul style="list-style-type: none"><li>• You've done <i>some</i> programming (roughly one course worth) in any programming language AND</li><li>• You are, or want to be in a major such as CS, CE, ECE, Info, etc. that requires Java programming</li></ul>
CSE 123	<ul style="list-style-type: none"><li>• You've taken CSE 122 (or equivalent) AND</li><li>• You are, or want to be in a major such as CS, CE, ECE, Info, etc. that requires Java programming</li></ul>
CSE 143	<ul style="list-style-type: none"><li>• You took CSE 142 (at UW, through UWHS, or at community college) OR</li><li>• You took AP CS A (or similar) and feel confident in <i>all</i> the material</li></ul>
CSE 143X	<ul style="list-style-type: none"><li>• You have programmed quite a bit before, but <i>not</i> in Java OR</li><li>• You have lots of extra time to put into learning and tend to pick things up quickly</li></ul>
CSE 160	<ul style="list-style-type: none"><li>• You've never programmed before AND</li><li>• You're interested in data science and analysis OR</li><li>• You'd rather learn Python than Java* OR</li><li>• You are, or want to be in a major such as Physics, Bio, Stat, etc. where your primary goal is analyzing data through programming (rather than building software)</li></ul>

Also see: [guided self-placement](#) and [CSE page on introductory courses](#) for more info.

# Course Components

## LECTURES

x20

- We're here!
- Introduce concepts, practice ideas, discuss applications.
- Pre-class materials to prepare for class each day. Due **before** class.

## SECTIONS

x16

- Held in person
- More practice, reviews, applications
- TA advice, how to be an effective student
- Preparation for quizzes / exams
- Pre-section work due at the beginning of section each day

Meetings

## PROGRAMMING ASSIGNMENTS

x4

- Structured assignments
- Programming in Java
- Applying & implementing course concepts

## CREATIVE PROJECTS

x4

- More open-ended assignments
- Explore new ideas and applications

## QUIZZES

x3

- Taken in quiz section
- 45 minutes on paper

## EXAM

x1

- Culminating exam
- **Wed, March 18<sup>th</sup>**
- 12:30 – 2:20 PM

Graded Assignments

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# Digression: A Pandemic Hobby (1)

*Amigurumi*: Japanese art of creating crocheted or knitted stuffed toys



# Digression: A Pandemic Hobby (2)

*Amigurumi*: Japanese art of creating crocheted or knitted stuffed toys



# How Learning Works

Learning requires **active participation** in the process.

It's not as simple as sitting and listening to someone talk at you!

- Requires **deliberate practice in learning by doing**
- Involves **productive struggle**
- Benefits from **collaborative learning**
- Does not work well if you cram everything!



# Pre-Class Materials

## PRE-CLASS MATERIALS

PCMs are a core element of the course

- Prepare for each lecture with **readings & practice problems**
- Should take **~30 minutes per lecture** (why we don't have Monday lectures!)
- Class will start with a brief recap, then pick off where we left off

This means...

- We can spend lecture diving deeper, answering questions, and think-pair-share
- You can ask about pre-lecture material in class or section!

Pre-class materials are **ungraded**, which means...

- It's okay if you find them challenging – that means you're learning!
- But you should do them, and we will assume you've done them

You will also have **pre-section work** that fulfills a similar purpose

# Consistent and Active Participation

## ATTENDANCE

Attendance is not graded, but it's strongly encouraged!

- Lectures and sections are not going to be just us talking at you!
- Instead: live in-class coding, debugging, think-pair-share, and problem—solving
- Spending ~1-2 hours each day over Tuesday - Friday is **much more effective** than cramming right before the assignment is due!

Catching up:

- All lectures are recorded on Panopto; slides are on our website.
- Section materials are on Ed, but section will not be recorded

# Metacognition

**Metacognition**: asking questions about your solution process.

Examples:

- **While debugging**: explain to yourself why you're trying this change.
- **Before running your program**: make an explicit prediction of what you expect.
- **When working**: be aware when you're not making progress, so you can take a break or try a different strategy
- **When designing**:
  - Explain the tradeoffs with using a different data structure or algorithm.
  - If one or more requirements change, how would the solution change as a result?
  - Reflect on how you ruled out alternative ideas along the way to a solution.
- **When studying**: what is the relationship of this topic to other ideas in the course?

**We'll ask you to practice metacognition regularly throughout the course**

# Learning in CSE 121: Live Support Systems

Programming is hard! We **want** to give you collaborative support!

**Introductory Programming Lab** (TA Office Hours) – starting Week 2

- > 40 hours/week (and highly rated in the class!)
- Face-to-face help from TAs on **any** course questions

**Instructor Office Hours** – starting this week!

- I have candy and I promise I'm not *that* scary
- Great for things from lecture, personal questions, or just saying hi

# Learning in CSE 121: Async Support Systems

## Ed Board

- Best for content and logistics questions – 320 of you >> 25 of us!!
- Encourage public posts, except for things about **your** graded work
- Answer other students' questions – great way to learn!

## Email

- Best for personal circumstances and/or private questions
- If unsure, always feel free to email Miya  
([mnats@cs.washington.edu](mailto:mnats@cs.washington.edu))
- May politely ask you to post on Ed instead!
- For emails, **please use your UW email** (protecting student privacy!)

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# Practice: Think



sli.do #cse121

## Think-Pair-Share: Inclusive Environments

CSE 121 will have many think-pair-share activities. Let's practice! Today's think:

*What was an experience you had that made you feel welcome or included in a learning environment?*

1. Think on your own, in silence for about ~ 30 seconds
2. Pair with your neighbor about it (and introduce yourself!!)
3. Share in sli.do & in class (I'll take a few volunteers from both)



# Practice: Think



sli.do #cse121

## Think-Pair-Share: *Exclusive Environments*

CSE 121 will have many think-pair-share activities. Let's practice! Today's think:

***What was an experience you had that made you feel unwelcome or excluded in a learning environment?***

1. Think on your own, in silence for about ~ 30 seconds
2. Pair with your neighbor about it (and introduce yourself!!)
3. Share in sli.do & in class (I'll take a few volunteers from both)

# The CSE 121 Community

## ABOUT US

- Currently ~320 students enrolled!
  - *Very few* are CSE majors
  - Wide range of backgrounds, interests, and goals
  - ***Everyone*** is new to programming

## OUR GOALS

- Foster an **inclusive and supportive** environment for all students to thrive by:
  - being respectful
  - being kind and understanding
  - being honest
  - being ourselves

# The World Around Us

**College is challenging** and CSE 121 isn't your only class.

**Life is unpredictable** and things happen.

**We can't leave the impacts of the world around us** at the classroom door.

## OUR POLICIES

Our course policies are **designed for flexibility**:

- Resubmissions
- Dropping quiz/exam problems
- Asynchronous help
- Lecture recordings

## SUPPORT

We're here to **support you as a student and as a person**.

Please **reach out** if you're struggling or have circumstances that require extra support.

# Help Us Improve!

This is still a relatively new course! We're *always* looking for feedback on how to improve the class for you and for future students.

- We ***really*** value your feedback!
- Let us know what's working and what isn't working for you!

Several feedback mechanisms:

- Built into the class (e.g. reflections, mid-quarter feedback sessions)
- Post on discussion board (can be public/private)
  - Note: anonymous is anonymous to other students, *not* to staff
- Use [CSE's Anonymous Feedback Tool](#) (also on website)

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4. Culture and community
5. **Tools**

- Course website
- Ed
- AI in CSE 121

## On Friday:

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# Course Website

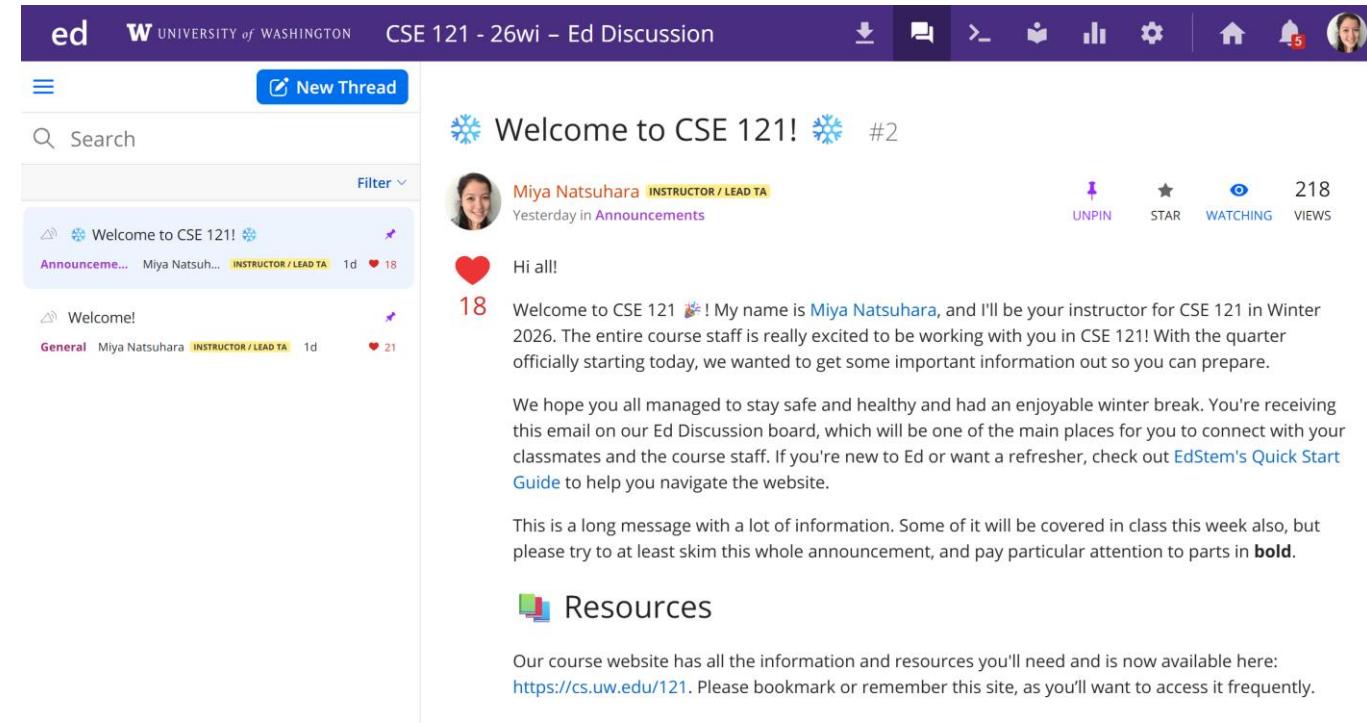
**cs.uw.edu/121**

- Primary source of course information (**not Canvas**)
- Calendar will contain links to (almost) all resources
- Please **review syllabus ASAP**
- Let's go on a website tour :)

The screenshot shows the homepage of the CSE 121 website. The header features the course name 'CSE 121' and a 'Home / Calendar' link. A yellow 'Attention!' box states: 'This website is still **under development**. More information will be added soon and all content is subject to change.' The main content area is titled 'Introduction to Computer Programming I' for 'Winter 2026'. A welcome message reads: 'Welcome to CSE 121: Introduction to Computer Programming I' with a small graduation cap icon. A callout box asks: '▶ What is this class? What will I learn?'. Below this is a 'This Week (at a glance)' section for 'Monday (01/05)', which lists: '• No class'. The sidebar on the left contains links to Syllabus, Assignments, Resubmissions, Exam, Getting Help, Course Staff, Grading Rubrics, Resources, Search Site, Course Tools, EdStem, and Grade Calculator.

# Ed

- Our online learning platform
- Lessons, sections, announcements
- Place to ask questions
- Also, **where we'll code!**
- Intro and walkthrough in **Section 0**



Welcome to CSE 121! #2

Hi all!

Welcome to CSE 121! My name is Miya Natsuhara, and I'll be your instructor for CSE 121 in Winter 2026. The entire course staff is really excited to be working with you in CSE 121! With the quarter officially starting today, we wanted to get some important information out so you can prepare.

We hope you all managed to stay safe and healthy and had an enjoyable winter break. You're receiving this email on our Ed Discussion board, which will be one of the main places for you to connect with your classmates and the course staff. If you're new to Ed or want a refresher, check out [EdStem's Quick Start Guide](#) to help you navigate the website.

This is a long message with a lot of information. Some of it will be covered in class this week also, but please try to at least skim this whole announcement, and pay particular attention to parts in **bold**.

### Resources

Our course website has all the information and resources you'll need and is now available here: <https://cs.uw.edu/121>. Please bookmark or remember this site, as you'll want to access it frequently.

# Some Other Course Tools



## sli.do

- Ask questions in class
- Live activities (ungraded)
- No account needed



## Canvas

- Panopto lecture recordings  
(also linked from website)



- Queueing in office hours



## Gradescope

- Quiz and final exam grading
- Pre-section work

# Switching to Ed: Our First Program!\*

\*note: in almost all cases, slides are *not* comprehensive. reviewing the slides will not cover all the content in lecture!

# “Homework” for Next Time

First assignment will be released Friday, but there are some things to do in the meantime.

TODOs this week:

- Fill out the [introductory survey](#) (this is part of your pre-section work for tomorrow's section)
- Go meet your TA and classmates in Thursday's quiz section
- Complete the pre-class material for Friday (see website/calendar)
- Check over [syllabus details on website](#)