

# CSE 121 – Lesson 1

Miya Natsuhara

Spring 2023

Music: [121 23sp Lecture Vibes](#) 



[sli.do #cse121](#)

TAs:

<i>Jasmine</i>	<i>Atharva</i>	<i>Mia</i>	<i>Justin</i>
<i>Shananda</i>	<i>Julia</i>	<i>Archit</i>	<i>Aishah</i>
<i>Vidhi</i>	<i>Anju</i>	<i>Grace</i>	<i>Claire</i>
<i>Larry</i>	<i>Lydia</i>	<i>Kailye</i>	<i>Lydia</i>
<i>Jacqueline</i>	<i>Jonus</i>	<i>Joshua</i>	<i>Kai</i>
<i>Afifah</i>	<i>Hugh</i>	<i>James</i>	

# Announcements, Reminders

- Check out [course website](#) for links to all activities, materials
- Creative Project 0 will be out tonight!
- The IPL will open on Monday (April 3)
- Post your introductory video and watch others'!
- Fill out the introductory survey!
  - About 1/3 of the class has filled it out so far

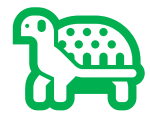
# Escape Sequences

**escape sequence:** A special sequence of characters used to represent certain special characters in a string.

- `\"` to produce `"` in a String
- `\\` to produce `\` in a String
- `\n` to produce a new line character (or line break) in a String
- And there are more!

# Activities in Class

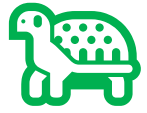
- **Goal:** To get you actively participating in your learning!
  - May ask you to think and volunteer a suggestion
  - May ask you poll in with a response (via slido)
  - *Not graded* but strongly encouraged to maximize your learning and use of class time!
- Common Format: **Think, Pair, Share**
    - Question is posed
    - **Think** about the question on your own
    - **Pair** up with your neighbor and discuss the question
      - Focus on *how* you arrived at your answers, whether they're the same or different!
    - **Share** what you discussed with the rest of the class!



# Turtle Time!



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)



# Turtles!

```
Turtle donatello = new Turtle();
```

Method	Description
<code>forward(<i>n</i>)</code>	Moves the turtle forward by <i>n</i> steps
<code>backward(<i>n</i>)</code>	Moves the turtle backward by <i>n</i> steps
<code>right(<i>d</i>)</code>	Turns the turtle right by <i>d</i> degrees
<code>left(<i>d</i>)</code>	Turns the turtle left by <i>d</i> degrees
<code>speed(<i>ms</i>)</code>	Sets the number of milliseconds it takes for the turtle to perform an action (e.g., if <i>ms</i> is 1000, then it will take the turtle 1000 ms = 1 second to perform an action like moving forward or turning).
<code>up()</code>	Picks up the turtle's pen so it doesn't draw when it moves
<code>down()</code>	Puts the turtle's pen down so it draws when it moves
<code>width(<i>w</i>)</code>	Sets the width of the turtle's pen to <i>w</i> pixels wide
<code>penColor(<i>c</i>)</code>	Sets the color of the turtle's pen to <i>c</i>

# Activities in Class

- **Goal:** To get you actively participating in your learning!
- May ask you to think and volunteer a suggestion
- May ask you poll in with a response (via slido)
- *Not graded* but strongly encouraged to maximize your learning and use of class time!

- Common Format: **Think, Pair, Share**
  - Question is posed
  - **Think** about the question on your own
  - **Pair** up with your neighbor and discuss the question
    - Focus on *how* you arrived at your answers, whether they're the same or different!
  - **Share** what you discussed with the rest of the class!

# Poll in with your answer!



Assuming we have created a Turtle named Donatello, what do you think the following commands would end up drawing?

```
donatello.left(90);  
donatello.forward(30);  
donatello.right(135);  
donatello.forward(40);  
donatello.left(135);  
donatello.forward(30);
```

- a) A circle
- b) A triangle
- c) The letter M
- d) The letter N
- e) A star