



# Welcome!

Lesson 1: Orientation



# Online Class Etiquette

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- Please set your Zoom nickname as your real name.
- Keep your mic muted while the teacher is speaking
  - Only unmute when you have a question or the teacher asks you a question
- Make use of the chat when answering questions that the teacher may have
- You are required to turn on your camera
  - Makes it easier to keep students accountable
- Be respectful!



# Who are we?

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Coding Power is a community outreach program aimed to empower youth, particularly those who may feel intimidated by the daunting title of computer programming, through a friendly and encouraging course of coding in Java. We aim to coordinate support groups and set up learning centers in local libraries and elementary schools to help coding students and promote interest in computer science, especially among underrepresented groups.



# What is Java?

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## Java

- One of the most popular coding languages
- A very structured and strict language that is very specific in order for the computer to perform actions
- Easy to learn
- Used in companies like Pinterest, Spotify, Minecraft, Groupon, and Pandora





# Tentative Schedule

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Week 1: Orientation

Week 2: Variables

Week 3: String & Index

Week 4: Logic

Week 5: Methods

Week 6: Array

Week 7: ArrayList

Week 8: Review



# Icebreakers

Name, Grade, School

What is your favorite animal and why?



# Supplies you'll need

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- Pencil/Pen
- Notebook (optional)
- Computer with working internet
- Positivity :D



# Hello World!

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1. Go to [replit.com/languages/java](https://replit.com/languages/java)
2. Type the following code into the program:  

```
System.out.println("Hello World!");
```
3. Click on the **Execute/Run** button and wait for the compiler to process your code





# Rules in Java

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1. Always add a semicolon at the end of every line  
`System.out.println("Hello!");`
2. Everything is case-sensitive! Always follow the way the code is written on the screen.
3. Whenever you open a parenthesis/bracket, always close the parenthesis/bracket. `{ }` `( )`
4. Write all code within the brackets



# Escape Characters

Escape Characters	Description
<code>\t</code>	It is used to insert a <b>tab</b> in the text at this point.
<code>\'</code>	It is used to insert a <b>single quote</b> character in the text at this point.
<code>\"</code>	It is used to insert a <b>double quote</b> character in the text at this point.
<code>\r</code>	It is used to insert a <b>carriage return</b> in the text at this point.
<code>\\</code>	It is used to insert a <b>backslash character</b> in the text at this point.
<code>\n</code>	It is used to insert a <b>new line</b> in the text at this point.
<code>\f</code>	It is used to insert a <b>form feed</b> in the text at this point.
<code>\b</code>	It is used to insert a <b>backspace</b> in the text at this point.



# Drawing Challenge

Using the knowledge you just learned, print out a drawing!

Example:

```
System.out.println("    /  \\__      ");
System.out.println("    (          0\\__  ");
System.out.println("    /                      @  ");
System.out.println("    /      (_____/      ");
System.out.println("/_____/          U      ");
```

Try one on your own! Don't forget about the rules from the previous slide.



# Diagnostic test

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We will be sending a link of the [diagnostic quiz](#) through the chat.

It will simply test your understanding of pre algebra and arithmetic math. Try your best!

You have 15 minutes :)





# Questions?

Contact us here:

Email:

[codingpower101@gmail.com](mailto:codingpower101@gmail.com)

Website: [codingpower.org](http://codingpower.org)

Discord: <https://discord.gg/TDFMVxdVqQ>