



# CS260: Object Oriented Programming

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Some Vocab - October 20, 2016



# Overview

- Quiz next Thursday...



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## 1. Java Bytecode

- a. Portable machine code created by an interpreter
- b. Can be understood and run by any compatible JVM

## 2. JVM

- a. A program written in C or C++ that understands and runs Bytecode instructions
- b. Acts a 'middleman' between Bytecode and the machine

# Quiz next Thursday...

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## 3. javac

- a. Program that translates Java Code into portable(?!) Bytecode
- b. Reads in \*.java files and outputs \*.class files

## 4. java

- a. Program that runs Java Programs
- b. Creates a JVM that calls the main() method of the class given
- c. Doesn't understand Java code
- d. Understands Bytecode

# Quiz next Thursday...

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## 5. Java vs. C

### a. C

- i. Faster - directly talks to the system
- ii. You have to build everything yourself (data structures)

### b. Java

- i. Slower - abstractions on top of abstractions on top of...
- ii. Tons of included libraries and functionality

### c. Overall:

- i. Do you want a fast program? Use C or another low level language
- ii. Do you want a program, fast? Use Java or another high level language

# Quiz next Thursday...

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## 6. Classes

- a. What does a class declaration look like?

```
public class ClassNameHere {  
    //this is where fields go  
    ClassNameHere(){  
        //this is where we set up the class  
    }  
    //this is where methods go  
}
```