CS 251
Intermediate Programming
Let's get going with Java!

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Where do I get Java?

- You may already have it.
- Need the JDK, not just JRE
- Download from Oracle

Java vs IDEs

- IntelliJ is not Java, Eclipse is not Java
- IntelliJ and Eclipse *use* Java
- An IDE like IntelliJ or Eclipse combines:
  - text editor
  - compiler
  - debugger
  - other snazzy tools (refactoring, renaming, code generation, etc.)
- If you can compile and run Java with an IDE, Java is installed somewhere.

So, where's Java?

- Java should be installed, but compiling gives an error!
  ```
  'javac' is not recognized as an internal or
  external command, operable program or batch
  file
  ```
- Windows can't find the compiler
- Does it work if you use the full path to javac?
- Might need to change your PATH.
  ```
  PATH=%PATH%;<Java location >
  ```
- Look at Java Tutorials – Getting Started – Common Problems

Compiling and Running

1. Create your `.java` file
   - Class name must match file name
   - Need a main method.
2. Compile your `.java` file using `javac`
   - You now have a `.class` file full of *bytecodes*
3. Run the program using `java`
   - Don't include ".class", just use the class name.

Obligatory Hello World program

```java
/**
 * This program just greets the world.
 */
public class HelloTest {
  public static void main(String[] args) {
     System.out.println("Hello, World!");
  }
}
```