Java Basics

* Java is a high-level programming language
  + Automatic memory management
    - Garbage collection
    - Was explicitly designed to prohibit developers from writing pointers
* Strongly typed
  + Can’t coerce values in Java
* Statically typed
  + All variables must have a type when created and methods must have return types
* Java is a compiled language
  + You write source code (human readable in a .java file)
  + Compiled into byte code (machine readable .class file)
* WORA (Write Once Run Anywhere)
  + A Java application will run the same on any machine that has a JVM (Java Virtual Machine)
* Java was designed to be scalable
  + Python was more readable
  + JS was more flexible
* Java is a very OOP (Object Oriented Programming)
  + 99% OOP
    - Primitives
    - Lambdas
* Java is widely used in enterprise
  + Number for enterprise web applications
  + Java has extensive libraries and frameworks