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Java Basics Unit

Lesson 1 - Java Installation and Hello, World CLI

Objectives

- Download, install, and configure Java 8 on Linux
- Define JRE and JDK and know the difference
- Understand the relationship between Oracle Java and OpenJDK
- Understand what 'javac' is and does
- Create, compile, and run Hello, World

Command Line Java Commands

- java: runs a Java program
- javac: compiles a Java program
- We'll see these in action in a bit

Getting Java

- Java version numbering scheme
- 32-bit vs. 64-bit
- Platforms
- JDK vs. JRE
- Oracle Java
- OpenJDK

Install and Configure Java

- Type

```
sudo add-apt-repository  
ppa:webupd8team/java  
sudo apt-get update  
sudo apt-get install oracle-java8-  
installer
```

- Test your configuration

- java -version

Hello, World

- Plain text editor — why?
- Creating the program
 - Class
 - Main
 - Writing to the console

Compile and Run

- `javac HelloWorld`
- `java HelloWorld`

Compiler Syntax

- **Syntax:** sequence of characters that make up well formed statements in a language
- The compiler is your friend here
- Let's look at some examples of what things look like when they break...

Questions

