Getting strated with Scala and SBT from Command Line

Install SBT

- 1. Make sure you have the Java 8 JDK (also known as 1.8)
 - Run javac -version in the command line and make sure you see javac 1.8.____
 - If you don't have version 1.8 or higher, install the JDK
 - JDK URL: https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
- 2. Install SBT on windows
 - Reference Link: https://www.scala-sbt.org/1.x/docs/Installing-sbt-on-Windows.html
 - Download windows installer (msi installer) from the above link and run the file.

Create the project

- cd to an empty folder.
- Run the following command **sbt new scala/hello-world.g8**. This pulls the 'helloworld' template from GitHub. It will also create a target folder, which you can ignore.
- When prompted, name the application **hello-world**. This will create a project called "hello-world"
- Let's take a look at what just got generated:

```
hello-world
project (sbt uses this to install and manage plugins and dependencies)
build.properties
src
main
scala (All of your scala code goes here)
Main.scala (Entry point of program) <-- this is all we need for now</li>
build.sbt (sbt's build definition file)
```

• After you build your project, sbt will create more target directories for generated files. You can ignore these.

Running the project

- cd into hello-world.
- Run **sbt**. This will open up the sbt console.
- Type ~run.
 - The ~ is optional and causes sbt to re-run on every file save, allowing for a fast edit/run/debug cycle. sbt will also generate a target directory which you can ignore.

Modifying the code

- Open the file src/main/scala/Main.scala in your favorite text editor.
- Change "Hello, World!" to "Hello, New York!"
- If you haven't stopped the **sbt** command, you should see "Hello, New York!" printed to the console.
- You can continue to make changes and see the results in the console.

Adding a dependency

- Changing gears a bit, let's look at how to use published libraries to add extra functionality to our apps.
- Open up build.sbt and add the following line:

```
libraryDependencies += "org.scala-lang.modules" %% "scala-parser-combinators" % "2.1.1"
```

- Here, libraryDependencies is a set of dependencies, and by using +=, we're adding the scalaparser-combinators dependency to the set of dependencies that sbt will go and fetch when it starts up. Now, in any Scala file, you can import classes, objects, etc, from scala-parsercombinators with a regular import.
- You can find more published libraries on Scaladex, the Scala library index, where you can also copy the above dependency information for pasting into your build.sbt file.