Largely modified from http://www.ics.uci.edu/~shantas/Install_Spark_on_Windows10.pdf
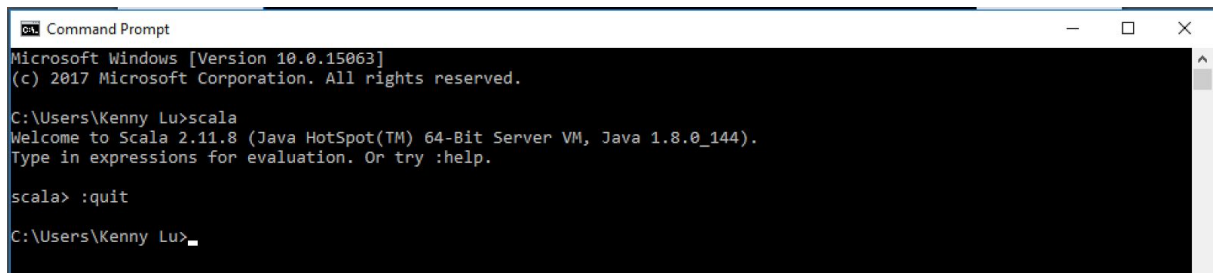
Installing Spark on Windows 10 without Hadoop

Kenny Zhuo Ming Lu

luzhuomi@gmail.com

School of Information Technology, Nanyang Polytechnic, Singapore

1. Install Scala: Download Scala from the link:
   http://downloads.lightbend.com/scala/2.11.8/scala- 2.11.8.msi
   a. Set environmental variables:
      i. User variable:
         1. Variable: SCALA_HOME;
         2. Value: C:\Program Files (x86)\scala
      ii. System variable:
         1. Variable: PATH
         2. **Add** Value: C:\Program Files (x86)\scala\bin
   b. Check it on cmd, see below.
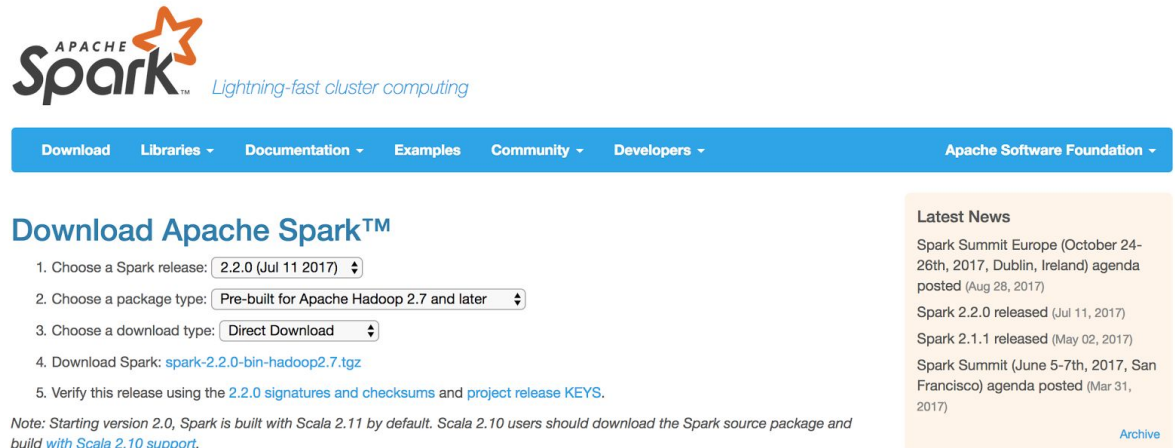

2.
3. Install Java 8:
   a. Download Java 8 from the link:
      http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
   b. Set environmental variables:
      i. User variable:
         1. Variable: JAVA_HOME
         2. Value: C:\Program Files\Java\jdk1.8.0_144
      ii. System variable:
         1. Variable: PATH
         2. Value: C:\Program Files\Java\jdk1.8.0_144\bin
   c. Check on cmd, see below:

```
C:\Users\Kenny Lu>java -version
java version "1.8.0_144"
Java(TM) SE Runtime Environment (build 1.8.0_144-b01)
Java HotSpot(TM) 64-Bit Server VM (build 25.144-b01, mixed mode)

C:\Users\Kenny Lu>
```

4. Install Spark 2.2.0. Download it from the following link:
   http://spark.apache.org/downloads.html and extract it into C drive, such as C:\spark.

   a. Set environmental variables:
      i. User variable:
         1. Variable: SPARK_HOME
         2. Value: C:\spark\spark-2.2.0-bin-hadoop2.7
         3. Variable: HADOOP_HOME
         4. Value: C:\spark\spark-2.2.0-bin-hadoop2.7 (note this is to fake
            the system with hadoop installed)
      ii. System variable:
         1. Variable: PATH
         2. **Add** Value: C:\spark\spark-2.2.0-bin-hadoop2.7\bin
   b. Download Windows Utilities:
      i. Download it from the link:
         https://github.com/steveloughran/winutils/blob/master/hadoop-2.6.0/bin/winutils.exe
      ii. And paste it in C:\spark\spark-2.2.0-bin-hadoop2.7\bin
      iii. Run the following in cmd.exe
         1. mkdir C:\tmp\hive
         2. C:\spark\spark-2.2.0-bin-hadoop2.7\bin\winutils chmod 777
            c:\tmp\hive
   c. Test spark

5. Install sbt via the msi file from
   http://www.scala-sbt.org/0.13/docs/Installing-sbt-on-Windows.html
   a. Test