

# Scala for Apache Spark

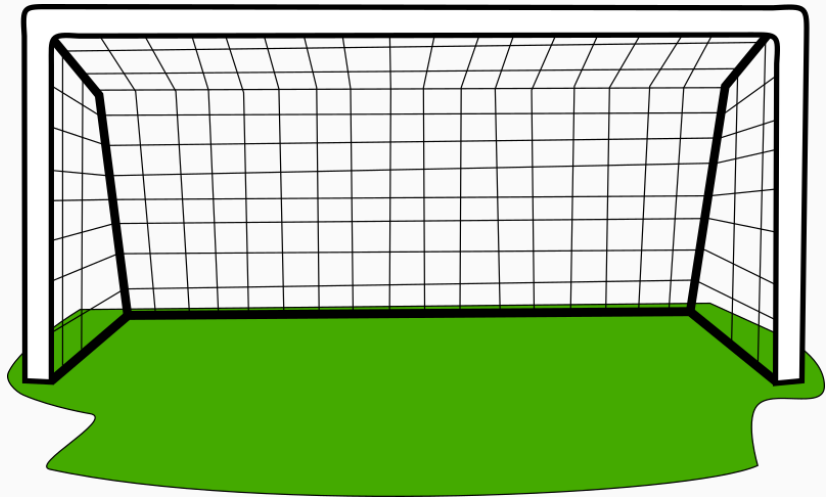
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- Slides: <https://github.com/medale/scala-spark/blob/master/presentation/ScalaSpark.pdf>
- Scala Spark Code Examples:  
<https://github.com/medale/scala-spark>

# Goals



**Figure 1:** Intro to Scala for Spark

# Why Scala for Spark?

- full interoperability with Java
  - strong type system
  - elegant multi-paradigm (functional & OO)
  - less keyboard typing
- JVM

## Java to Scala - Java Main

```
package com.uebercomputing.scalaspark.common;
public class JavaMain {
    private int answer = 0;
    public JavaMain(int answer) {
        this.answer = answer;
    }
    public int getAnswer() {
        return answer;
    }
    public static void main(String[] args) {
        System.out.println("Starting a Java program...");
        JavaMain jaMain = new JavaMain(42);
        int answer = jaMain.getAnswer();
        System.out.println("The answer was " + answer);
    }
}
```

# Scala Main

```
package com.uebercomputing.scalaspark.common

object ScalaMainOne {

  def main(args: Array[String]): Unit = {
    println("Starting a Scala program...")
    val scMain = new ScalaMainOne(42)
    val answer = scMain.answer
    println(s"The answer was ${answer}")
  }
}

class ScalaMainOne(val answer: Int)
```