

O'REILLY®

Scala Programming Fundamentals

IDE's, Methods, Classes, Traits

Daniel Hinojosa

About Me...

Daniel Hinojosa

Programmer, Developer, Consultant,
Instructor, and Speaker

Notable Content:

Testing in Scala (Book)

Beginning Scala Programming (Video)

Java & TDD (Video Training)

Scala Beyond The Basics

Scala Programming Fundamentals Series

Speaker:

OSCON

No Fluff Just Stuff Tour

DevNexus

dhinojosa@evolutionnext.com

@dhinojosa



Other Classes

- Learn the Basics of Scala in 3 hours
- Scala Beyond the Basics
 - Implicits
 - Pattern matching
- **Scala Programming Fundamentals**
 - **IDES, Classes, Methods, Traits**
- Scala Programming Fundamentals
 - Sealed, Collections, and Functions

Structure of the Class

- All LiveCoding
- Performed in IntelliJ and Eclipse
- Commits and Pushing performed throughout the class
- Your Choice :
 - Watch
 - Code with Me
- Definitely Ask Questions

Checklist before we proceed...

- We provided pre-setup configuration already.
- Be sure `JAVA_HOME` is set and that the following works:
 - `javac -version`
 - `java -version`
- Be sure SBT is setup and ensure that the following works
 - `sbt sbtVersion`

Basic SBT

SBT

- Simple Build Tool
 - Commonly used build tool among Scala projects
 - Parallel Processing
 - Tab Completed Tasks
 - Scoped Based
 - Java and Scala Support out of the box
 - Cross Compiling Support
 - Plugin Support
 - Embedded console with project class loading

SBT Advantages

- Built to run Scala and Java projects very well
- No separate build files like Maven for multi-module projects
- Large Community
- Large Amount of Plugins
- Uses JVM based common folder structure
- Rapid project scaffolding from git repositories

SBT Disadvantages

- Much higher learning curve
- Mature project builds hard to read
- Two repositories, one for SBT boot level, one for dependencies
- Repository separate from other build tools

SBT Installation with Brew

```
% brew update  
% brew cask install java  
% brew install scala  
% brew install sbt@1
```

SBT Manual Installation

- Visit <http://scala-sbt.org>
- Click the Download Button
- Download the appropriate binary for your system:
- Mac and Linux will load a `.tgz`, or a `.zip` file
- Windows will download an `.msi` executable
- For Mac and Linux you can expand with

```
tar -xvf sbt-1.0.2.tgz
```

sdkman.io



```
$ sdk install sbt
```

Lab: Create a manual build

Lab: Create a build using Giter8 templates

```
% sbt new scala/hello-world.g8
```

Bringing in our Project

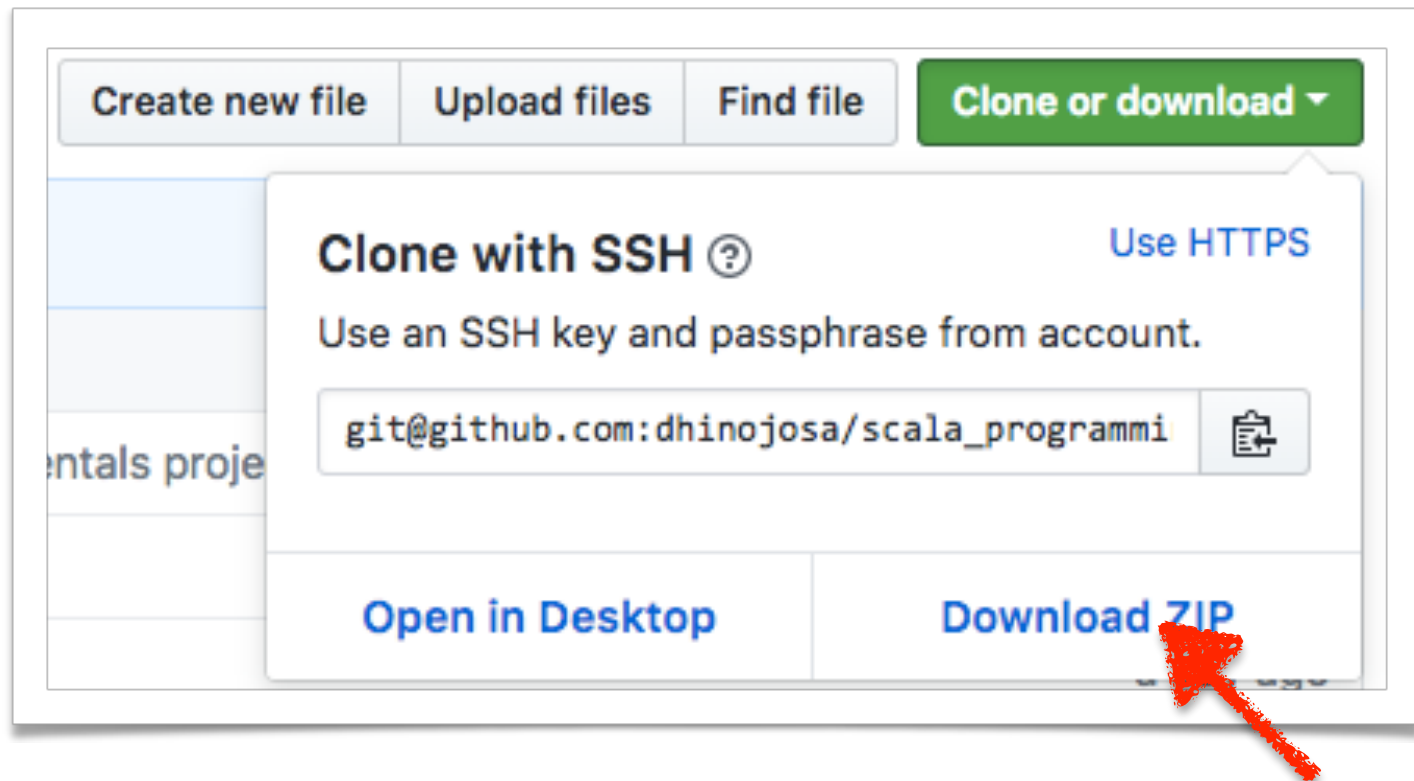
Repository Location, Clone it!

https://github.com/dhinojosa/scala_programming_fundamentals_1

or use the abbreviation...

<https://bit.ly/2DRRxH0>

But, if don't know Git too well...



Methods, Classes, Instances, Traits (Live Coding)

Thank You