

O'REILLY®

Scala Beyond the Basics

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)

Speaker:

A Few OSCONs

No Fluff Just Stuff Tour

DevNexus

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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

Other Classes

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

Project Setup

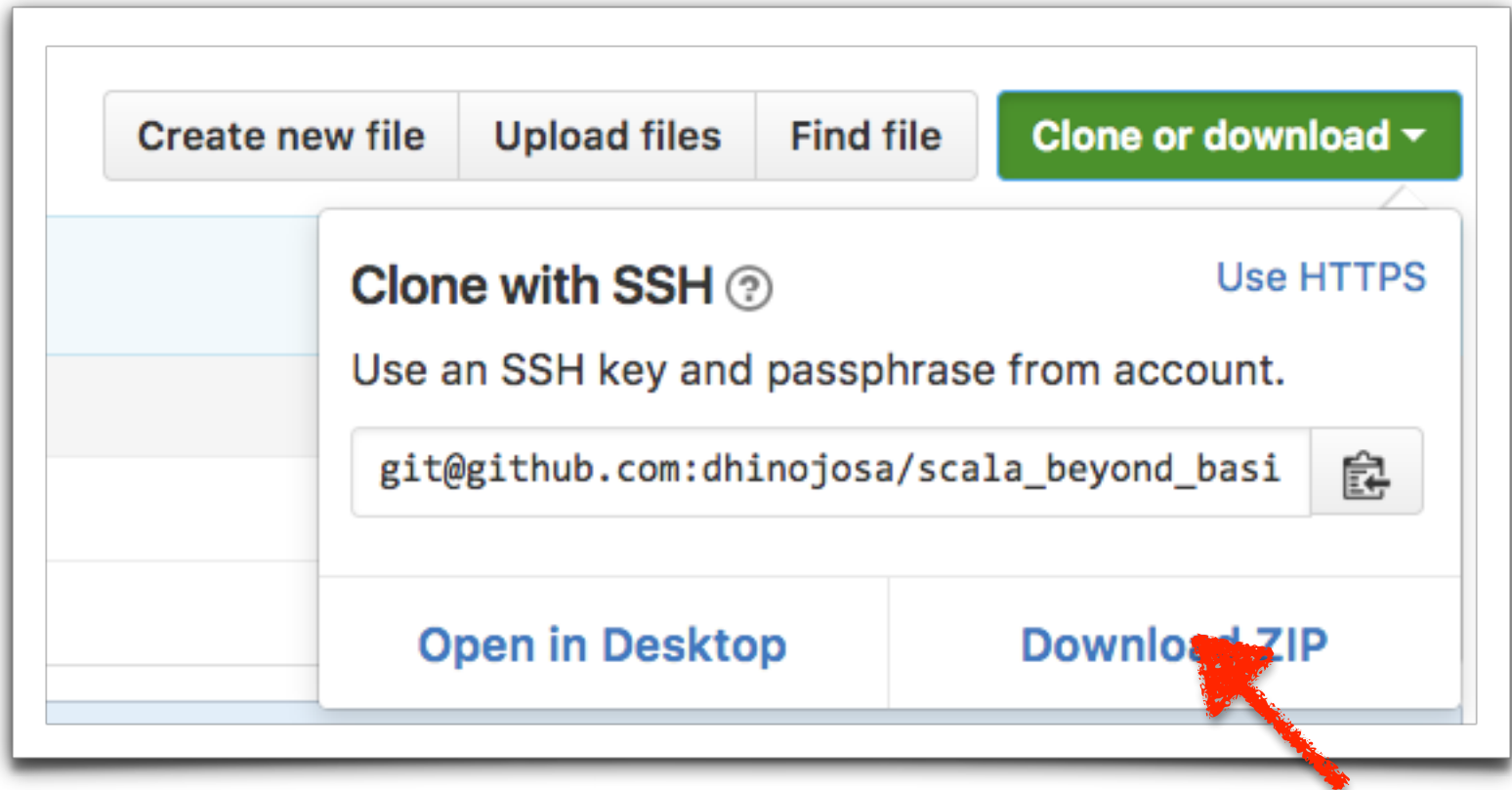
Checklist before setup...

- 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`

Repository Location, Clone it!

https://github.com/dhinojosa/scala_beyond_basics

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



Once downloaded...Run SBT

```
~/Development/scala_beyond_basics(master) » sbt
```

You should see something like this...

```
-----  
~/Development/scala_beyond_basics(master) » sbt  
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPerm  
rt was removed in 8.0  
[info] Loading settings from plugins.sbt ...  
[info] Loading project definition from /Users/danno/Development/sc  
ics/project  
[info] Loading settings from build.sbt ...  
[info] Set current project to scala_beyond_basics (in build file:/  
velopment/scala_beyond_basics/)  
[info] sbt server started at 127.0.0.1:5901  
sbt:scala_beyond_basics> █
```

You'll need to update your project...

```
-----  
~/Development/scala_beyond_basics(master) » sbt  
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxP  
rt was removed in 8.0  
[info] Loading settings from plugins.sbt ...  
[info] Loading project definition from /Users/danno/Development  
ics/project  
[info] Loading settings from build.sbt ...  
[info] Set current project to scala_beyond_basics (in build fil  
velopment/scala_beyond_basics/)  
[info] sbt server started at 127.0.0.1:5901  
sbt:scala_beyond_basics> update
```

Updating Your Project

- This will download Scala and all your dependencies into your `~/ .ivy2`
- This may take a while depending on your connection speed.
- If you have any problems, there might be issues with network connection, or proxy based issues

Proxy Issues

- If you have problems because of any proxy server, add the following to your environment variables and change username and password accordingly

```
export JAVA_OPTS="$JAVA_OPTS \  
-Dhttp.proxyHost=yourserver \  
-Dhttp.proxyPort=8080 \  
-Dhttp.proxyUser=username \  
-Dhttp.proxyPassword=password"
```

Lab: Let's get setup!

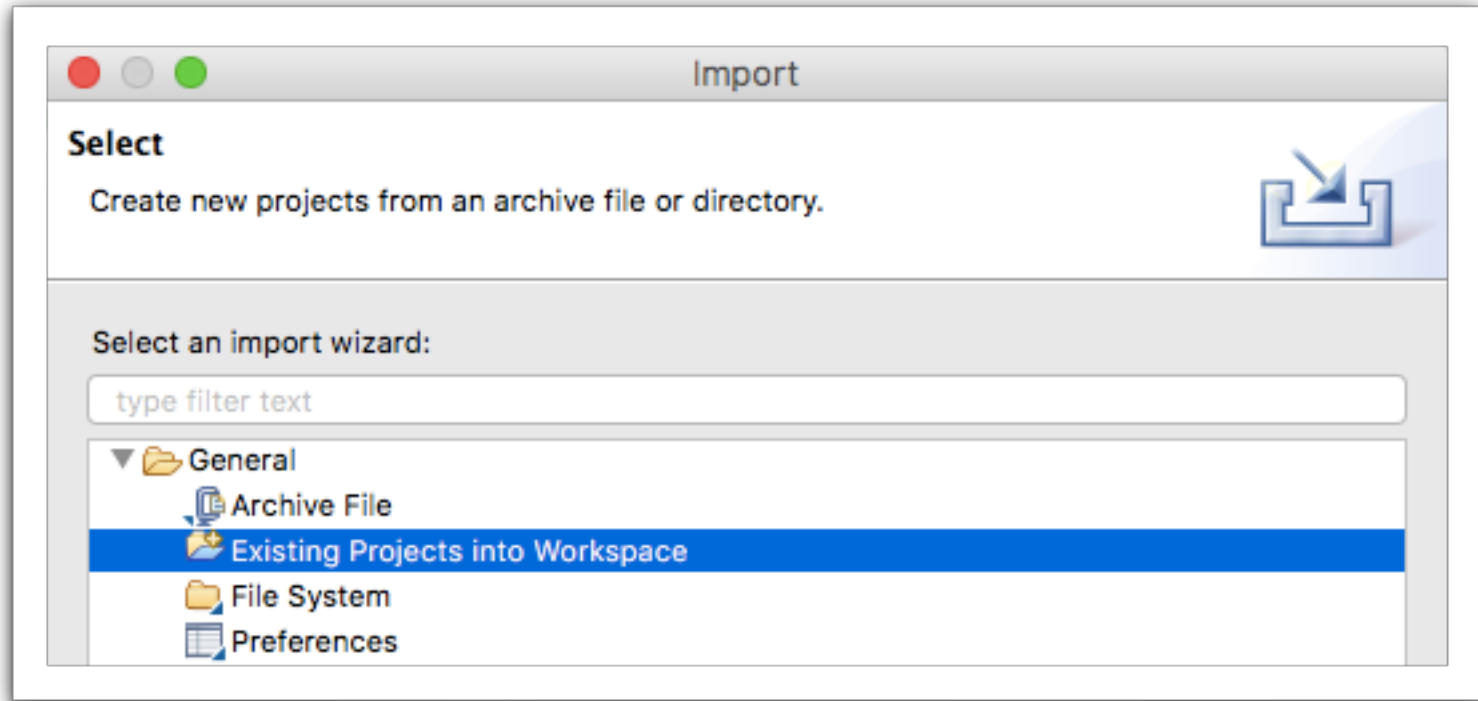
- Clone or download
`scala_beyond_basics` from
`https://github.com/dhinojosa/scala_beyond_basics`
- Run `sbt` at the command line
- Once in the `sbt` console, run `update`
- Wait for the download to complete

Setup for Eclipse

Run the Eclipse Plugin in SBT

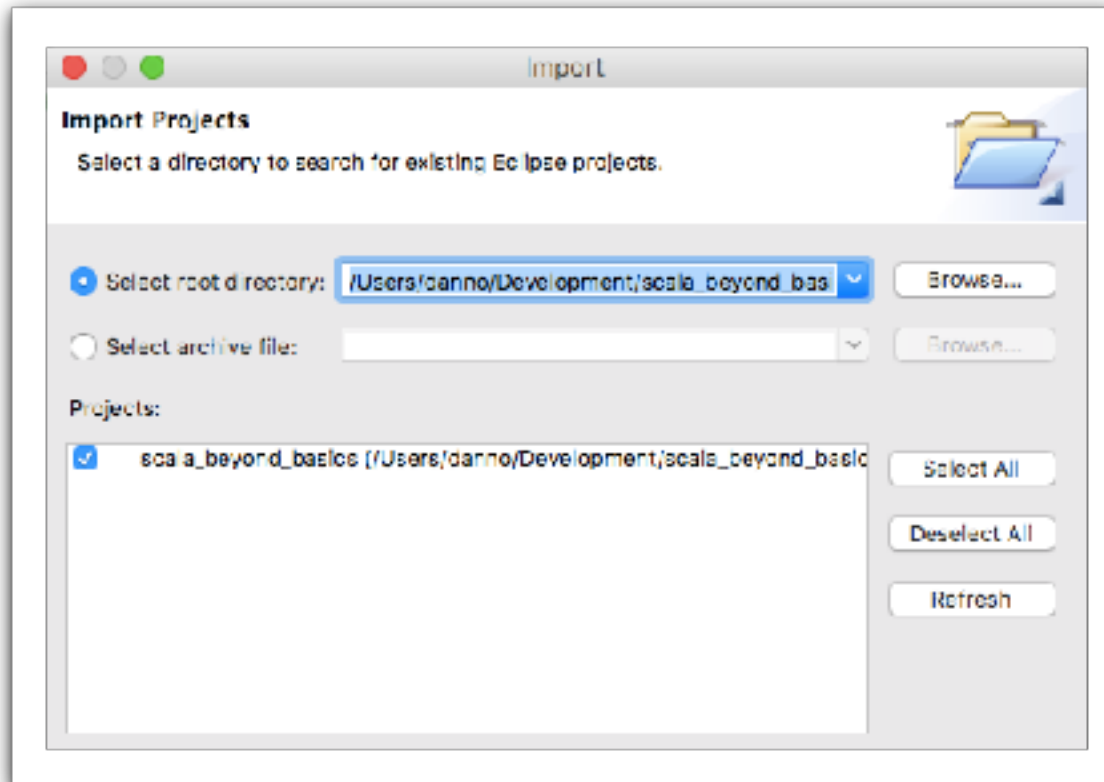
```
sbt:scala_beyond_basics> eclipse
```

Import Existing Project



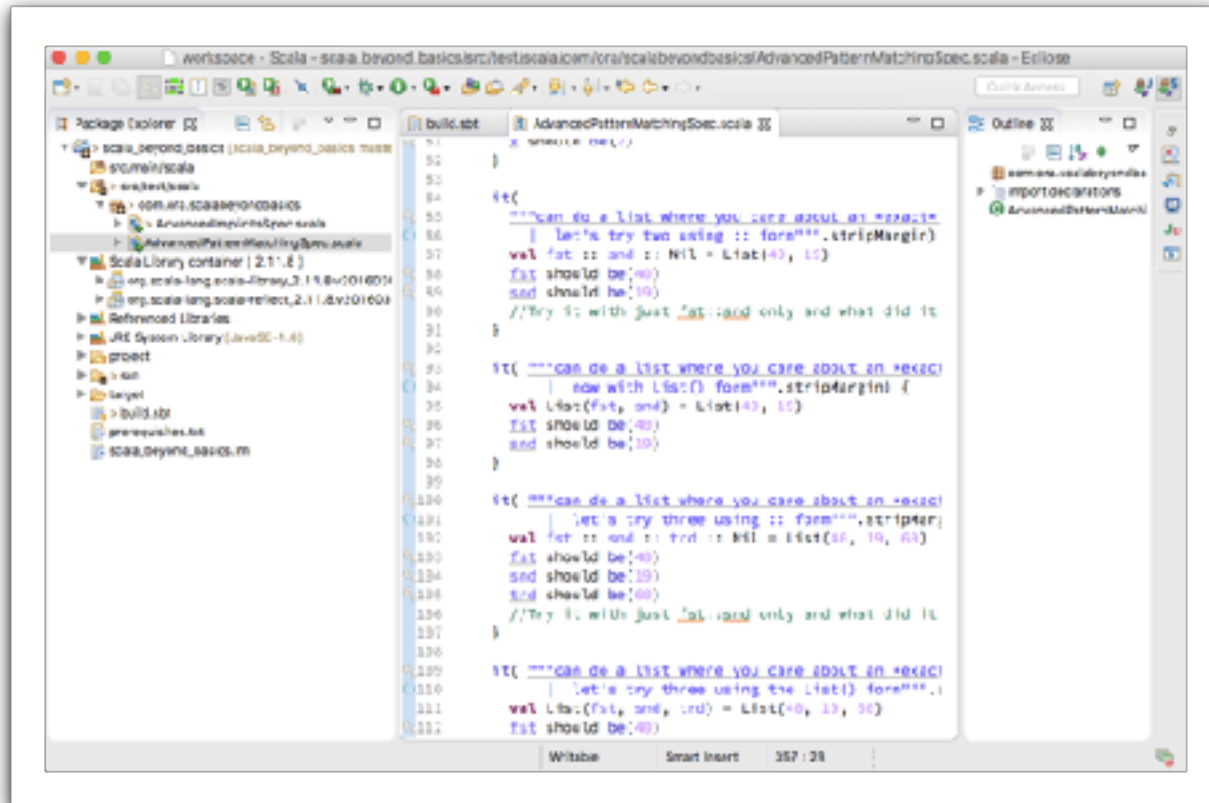
File > Import Project >
Select Existing Projects Into Workspace > Next

Select Root Directory



Select the Root Directory of the Project using Browse,
Ensure that the Project is Found, hit Finish

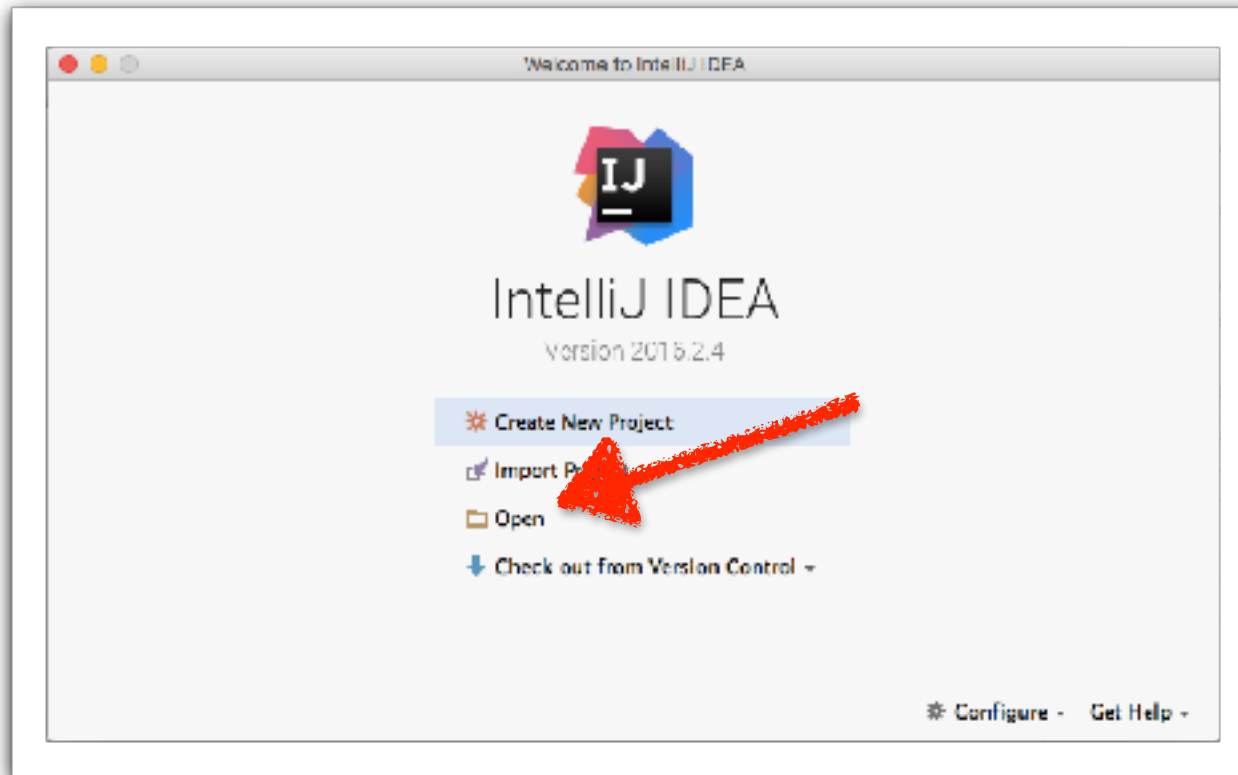
Project is now ready



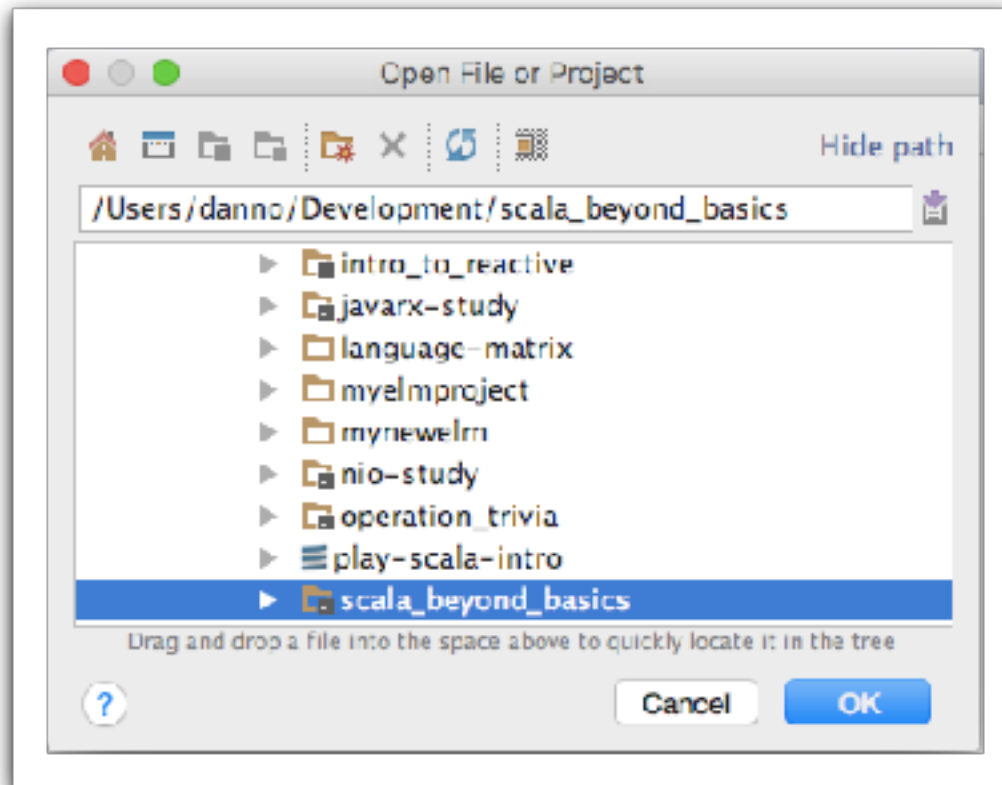
Select the Root Directory of the Project using Browse,
Ensure that the Project is Found, hit Finish

Setup for IntelliJ

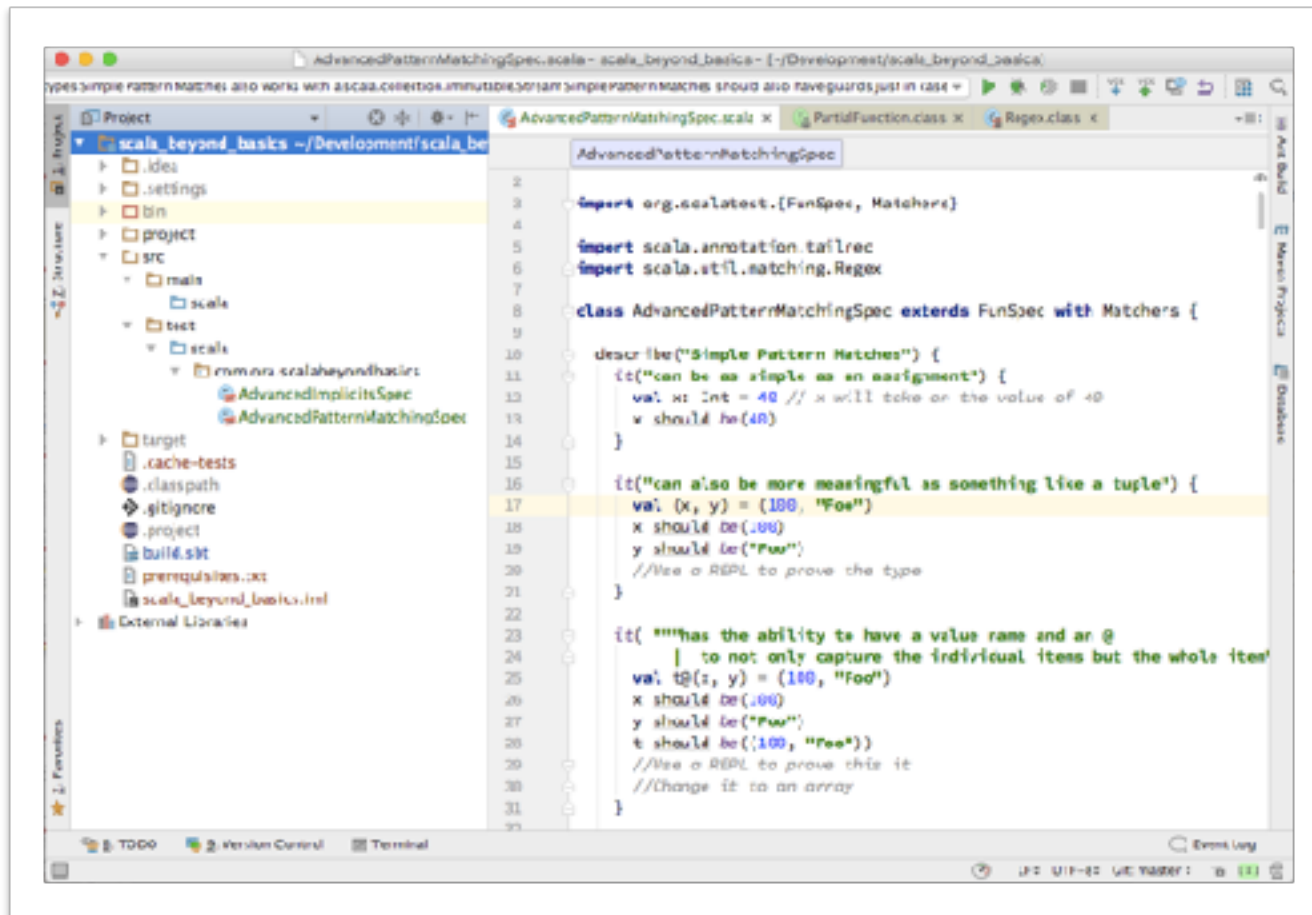
From IntelliJ Intro Screen, or from the splash screen, select Open



Locate the `scala_beyond_basics` project and click OK



Project is now ready...



Day 1: Pattern Matching (Live Coding)

Day 2: Implicit and Typeclasses (Live Coding)

Thank You