

Integrating Welder, SBT and IntelliJ Idea

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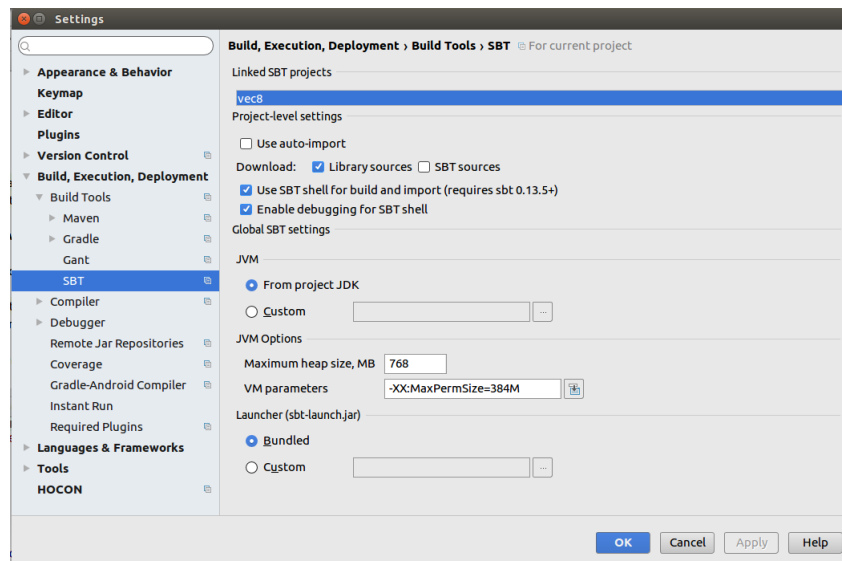
On IntelliJ Idea 2017.2.1 we create a new Scala SBT-based project. In the file build.sbt we write the following:

```

1 name := "vec8"
2
3 version := "1.0"
4
5 scalaVersion := "2.11.8"
6
7 lazy val welder = RootProject(uri("git://github.com/epfl-lara/welder.git#2b9dd10a7a751777cc9cda543ce888294113c0b1"))
8
9 lazy val root = (project in file(".")).dependsOn(welder)

```

Next, we go to File → Settings → Build,Execution,Deployment → Build Tools → SBT and mark the option *Use SBT shell for build and import (requires sbt 0.13.5+)* and press OK.

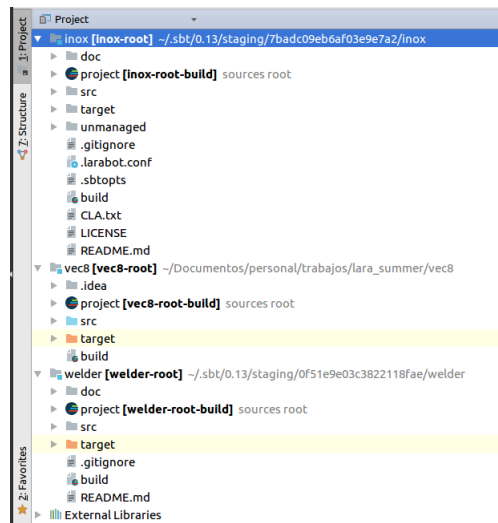


Finally, we select the option Refresh project that should have appear after updating the build.sbt file. We accept, without unmarking, the removal of the modules that IntelliJ Idea suggests.

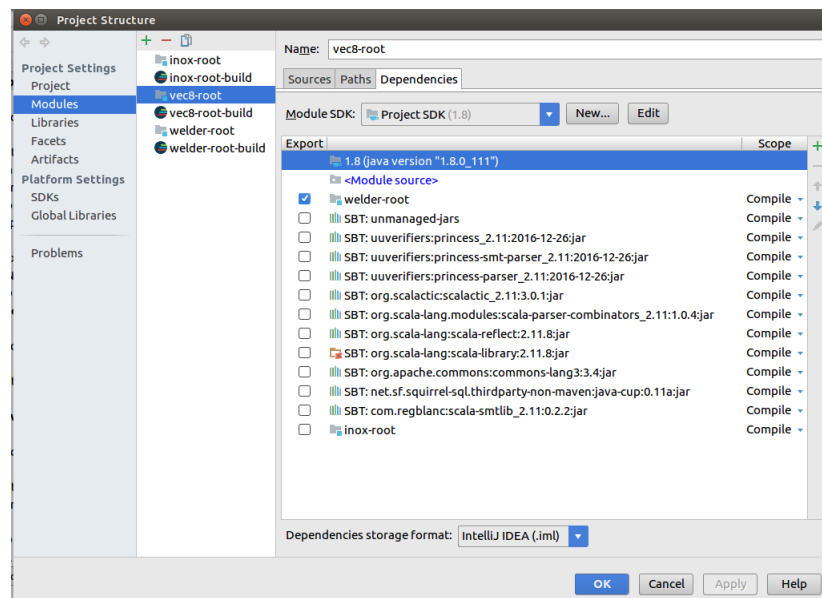
Once we are done, we obtain in the Project Panel three projects modules. Observe that the RootProject command in the build.sbt is highlighted. We can get rid of this by renaming the projects and build files to the following:

- inox-root and inox-root-build
- myproject-root and myproject-root-build
- welder-root and welder-root-build

To do so right click and the modules and then Refactor → Rename → Rename Module. Before building our project, we mark the src file in our project as source file in File → Project-Structure → Project name → Sources → src and selecting Sources icon. Then we put our Main.scala file in the corresponding directory.



We also need to tell IntelliJ Idea that our project depends on Inox. We do so in File → Project-Structure → Project name → + → Module dependency... → inox-root.



We set the running configuration in Run → Edit configuration → Application mode and selecting the module and the main program as usual. Before running this, we go to the SBT shell and compile the program. Finally, we run the Application as usual in IntelliJ Idea.

References

- [1] *Debugging the code of an external library in IntelliJ Idea*. 2017. URL: <https://stackoverflow.com/questions/43396002/debugging-the-code-of-an-external-library-in-intellij-idea> (visited on 08/04/2017).
- [2] *Integrating IntelliJ Idea and SBT*. 2017. URL: <https://intellij-support.jetbrains.com/hc/en-us/community/posts/115000475984-Integrating-IntelliJ-Idea-and-SBT> (visited on 08/04/2017).
- [3] *NoClassDefFoundError using sbt for builds and imports in IntelliJ Idea*. 2017. URL: <https://stackoverflow.com/questions/45486294/noclassdeffounderror-using-sbt-for-builds-and-imports-in-intellij-idea> (visited on 08/04/2017).
- [4] *Online dependence not found in .ivy2 file and not found by IntelliJ Idea*. 2017. URL: <https://stackoverflow.com/questions/45463978/online-dependence-not-found-in-ivy2-file-and-not-found-by-intellij-idea> (visited on 08/04/2017).
- [5] *Problems with SBT dependencies in IntelliJ Idea*. 2017. URL: <https://stackoverflow.com/questions/45471836/problems-with-sbt-dependencies-in-intellij-idea> (visited on 08/04/2017).
- [6] Josh Suereth and Matthew Farwell. *sbt in Action*. Manning Publications, 2015.