

# Data-intensive Programming

## Weekly exercise #4

### Create a Spark project in the Scala Ide

Create a directory “dip” in your home directory, and download ex4.tar.gz from course Moodle page into the directory. Unpack the tar ball into the directory and cd to ex4 (e.g. `tar -zxvf ex4.tar.gz`). CD to dip/ex4 and give command `sbt`:

```
% sbt
[info] Loading project definition from /Users/aaltonen3/tmp2/ex4/project
[info] Updating {file:/Users/aaltonen3/tmp2/ex4/project/}ex4-build...
[info] Resolving org.fusesource.jansi#jansi;1.4 ...
[info] Done updating.
[info] Set current project to Sample Project (in build file:/Users/aaltonen3/tmp2/ex4/)
>
```

The `sbt` builds the project and downloads the needed libraries into `.ivy2` directory in your home directory. This may take several minutes.

When `sbt` shows prompt ‘>’ give it command `eclipse`:

```
> eclipse
[info] About to create Eclipse project files for your project(s).
[info] Updating {file:/Users/aaltonen3/tmp2/ex4/}ex4...
[info] Resolving jline#jline;2.12.1 ...
[info] Done updating.
[info] Resolving jline#jline;2.12.1 ...
[info] Successfully created Eclipse project files for project(s):
[info] Sample Project
>
```

Now start Scala Ide, and choose *File->Import...*

Choose *General->Existing Projects into Workspace* and press *Next*.

Navigate to the dip/ex4 directory and press *Open*.

Press *Finish*

### Change the Scala compiler to version 2.11.8

- Right click the project name -> Properties
- Choose Scala Compiler from the left.
- Select *Use Project Settings*.
- Choose Scala Installation -> 2.11.8.

Open the file `src/main/scala/weeklyExercise/Main.scala` and do the tasks.