Setting up Your Development Environment

To ensure a good productivity when building Lenya applications, it is essential that you have a well-configured development environment.

The following steps guide you through the process of setting up the Eclipse IDE for Lenya. The paths apply to a Unix-like operating system, for Windows you have to change the paths accordingly and replace all shell script names with the names of the corresponding batch files.

- Check out the Lenya trunk and the Cocoon branch 2.1 from the Subversion repository (see [Installation Instructions](../../../../docs/1_4/installation/source_version.html)). I suggest to use the following directory layout:

```
src/
  apache/
    lenya/
      trunk/              -> LENYA_HOME
    cocoon/
      branches/
        BRANCH_2_1_X/     -> COCOON_HOME
```

  You don't need to set these environment variables, I only use them in this tutorial.

  Note that we don't use the Cocoon version which ships with Lenya, but a separate working copy of Cocoon. This is necessary because Eclipse doesn't support nested projects.

  The `apache` directory will come in handy when you start serious development, because you're likely to peek into the source code of other ASF projects like Excalibur or Xalan.

- Edit `$LENYA_HOME/local.build.properties` and set the property `cocoon.src.dir` to the path of your `$COCOON_HOME` directory. When you use the suggested directory structure, this would be `../../cocoon/branches/BRANCH_2_1_X`.

- Go to the `$COCOON_HOME` directory and execute

```
./build.sh eclipse-project
```
  This creates the Cocoon project files for Eclipse.

- Go to the `$LENYA_HOME` directory and execute

```
./build.sh eclipse-project
```
  This creates the Lenya project files for Eclipse.

- You can now import both projects in Eclipse.

- If your Lenya project complains that various packages are not found, it is probably necessary to edit the *Java Build Path* properties of your Cocoon project and select all libraries on the *Order and Export* tab.

- In the *Preferences* pane, you have to configure the Java compiler to use the 1.4 compliance level.

- A decent XML and XSLT editor is recommended, you can for instance install the web tools platform from the Eclipse project.

- Have fun!