Tutorial: Installing the Biojs repository in local

This tutorial shows how to install the registry your machine. It contains working examples of the actual Biojs components.

Requirements and recommendations

To follow this tutorial you will need to have installed:

- Maven 3
- SVN.
- A web server like Apache with PHP* support (needed for the proxy script only, why proxy?)
  - We could suggest you to get XAMPP, an easy to install Apache Distribution for Linux, Windows, Mac OS X, and Solaris.

Steps:

1. Create a folder for Biojs in your local code repository.
   For example: **`/Users/johncar/workspace/biojs`**

2. Download Biojs from repository http://code.google.com/p/biojs/source/checkout into the created folder.

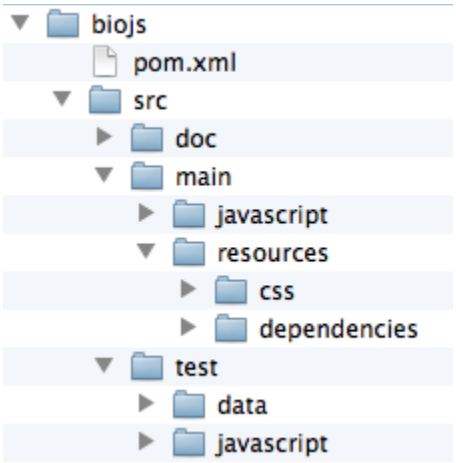
If you aren't project committer:

```
cd /Users/johncar/workspace/biojs
```

If you are project committer:

```
svn checkout https://biojs.googlecode.com/svn/trunk/ biojs --username johncar@gmail.com
```

Expected file structure:



» Project file for Maven

» Templates for generating both registry and jsdoc

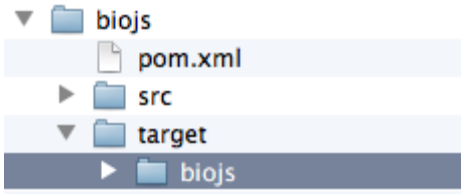
» Source code of the components

» Style sheets
» External libraries required by components (dependencies)
» Testing files

3. Compile the library. Biojs is a Javascript based library, compilation here refers to compaction of the source code by removing unnecessary characters as spaces or comments. But also, during the compilation, all the files are copied together into a unique folder called **`biojs`**.

```
mvn compile
```

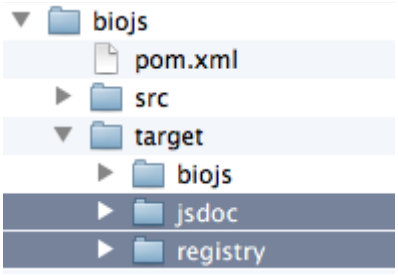
Target directory should be generated with biojs into:



4. Almost done, execute the following command to generate the registry:

```
mvn jsdoctk:jsdoc
```

Both directories jsdoc and registry are generated in the target dir:



5. Publish the registry. There two options to do it, either create a symbolic link in the Web server public directory or copy all the content of target into it. The first option avoid the need of copy the files for each compilation.

Create a symbolic link

```
ln -s /Users/johncar/workspace/biojs/target /opt/lampp/htdocs/biojs

Grant permission:
chmod +rx /home/training
```

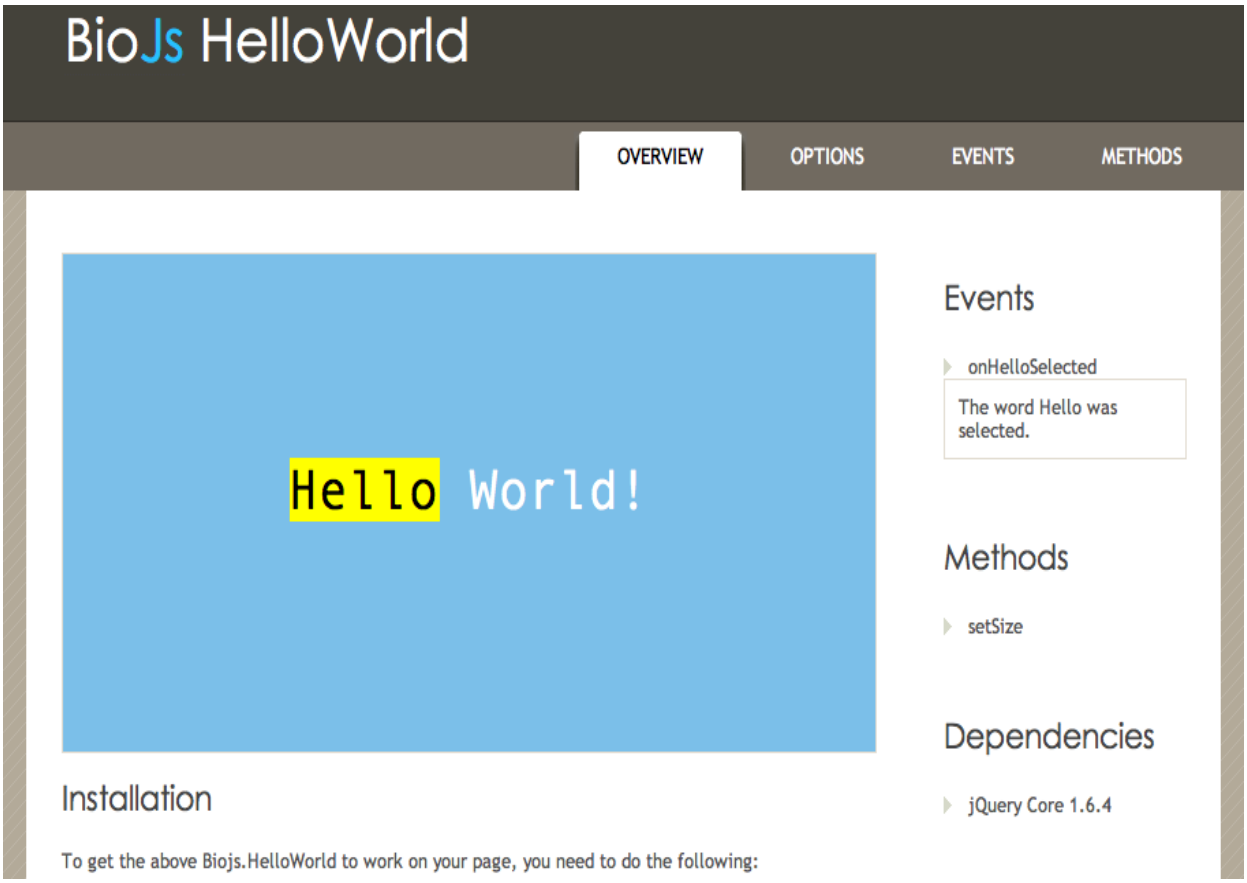
NOTE: Change the path /Users/johncar/workspace/biojs for your own biojs path.

OR

Copy the files:

```
copy biojs/target/* /opt/lampp/htdocs/biojs
```

PLEASE NOTE:

- Different web servers have a different path to locate the public documents (htdocs). For example, the one used by Mac OSX is /Library/WebServer/Documents.
- Check if your web server is running before try to access `localhost` by through the web browser.

6. Explore the registry. The published files should be accessible from any browser by using the address http://localhost/biojs. The registry should seems like this: