

# EOGenerator

The WOLips EOGenerator is an integral part of WOLips and shares its codebase with Entity Modeler. It uses release 1.5 of the [Velocity Templating Engine](#) and template files that use the [Velocity Template Language](#). This templating language is similar to the original Rubicode EOGenerator that many developers used with WebObjects 5.3 and earlier so migrating old templates to the new language is time consuming, but not difficult.

## Default Setup

If you don't specify a custom template name in your .eogen file, then the WOLips EOGenerator will simply use the built-in ones. This is the way all developers should start out. You can always grab those templates and modify them, or use some of the many modifications shared by other WebObjects developers on the [EOGenerator Templates and Additions](#) page.

## Customizing

There are two ways: create eclipse-wide settings, or create settings per project.

Note: There is actually no need to download Mike's templates as described below unless you want to customize them. WOLips includes two sets of default templates in the .jar files (so don't bother searching your file system for them) - one as described below and another for use with WOnder. If you are using WOnder, you need to follow Mike's instructions for their use: "Where it says "Entity.java" and "\_Entity.java" you can use WonderEntity.java and \_WonderEntity.java ... If your individual .eogen files override that, you will have to set it in there also". If you leave the "EOGenerator Template Folder" field empty, it will use the default templates...

### eclipse-wide settings for EOGeneration

1. Download the templates that Mike Schrag made from <https://github.com/wolips/wolips/tree/master/wolips/core/plugins/org.objectstyle.wolips.eo.generator.core/templates>

and place them in a folder. In my case that was in

/Applications/Developing/VelocityEOGeneratorTemplates

Inside this folder you will have two standard templates: \_Entity.java en Entity.java. Do not change them for the moment.

(Additional templates and a reference are available [here](#))

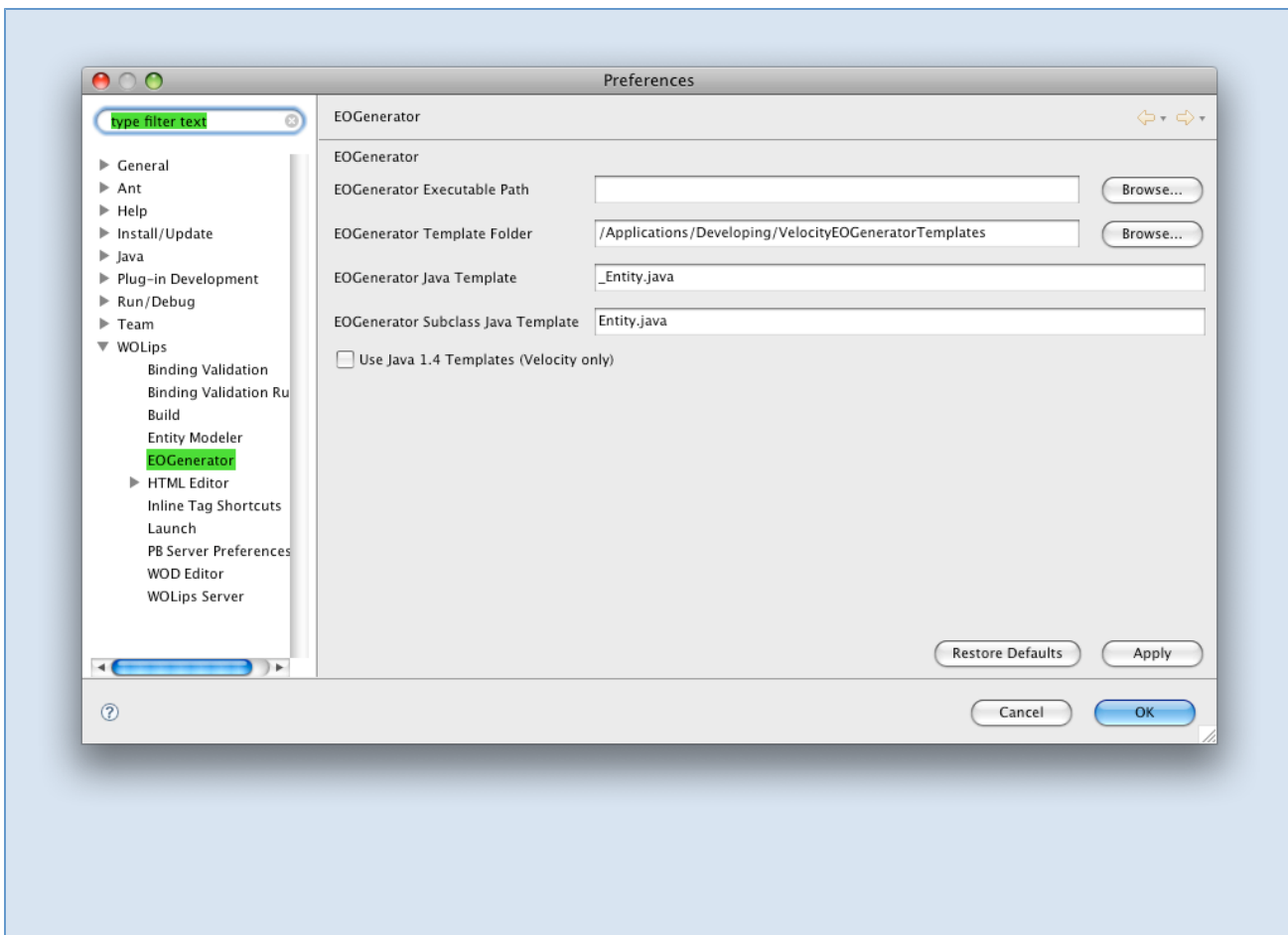
2. Go to Preferences > WOLips > EOGenerator

In EOGenerator Template Folder, fill in the folder you have placed the templates

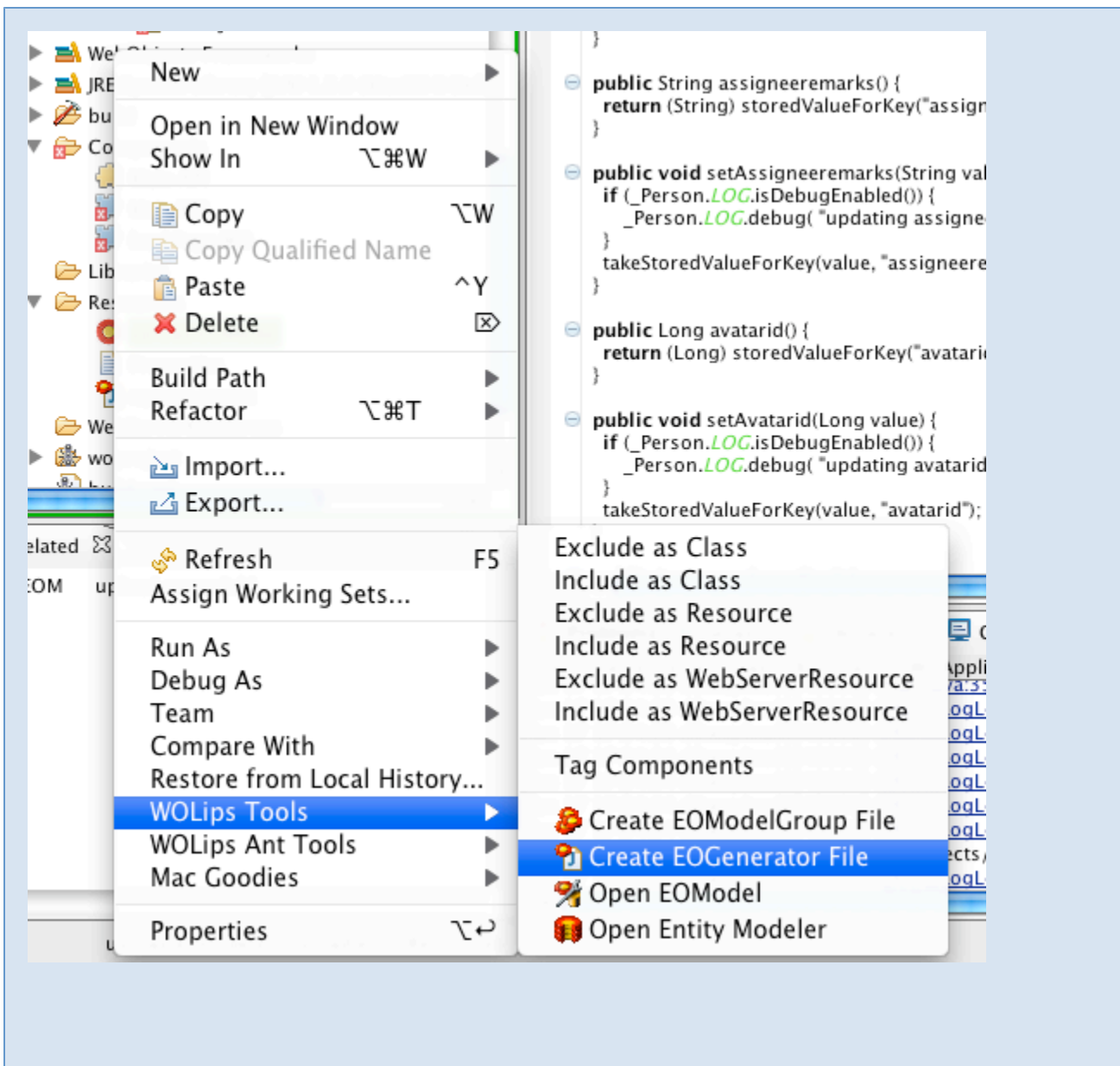
In EOGenerator Java Template fill in \_Entity.java

In EOGenerator Subclass Java Template fill in Entity.java

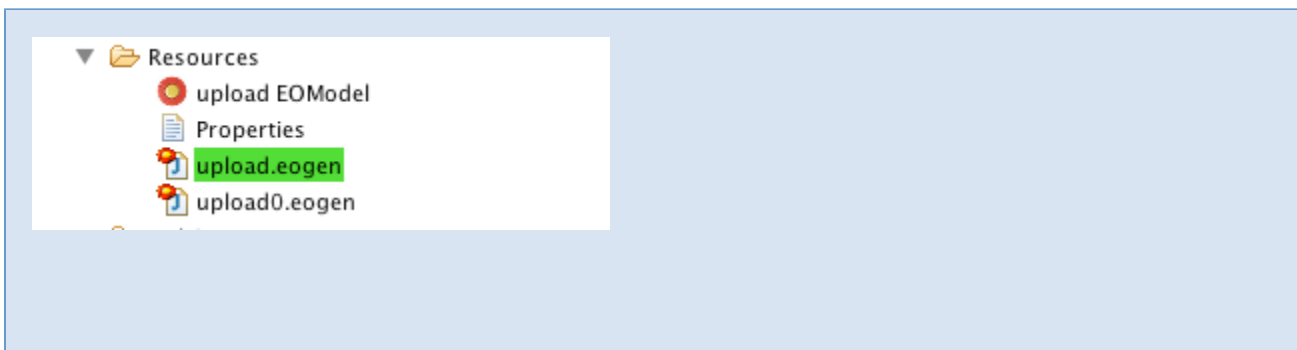
This is how it looks in my settings:



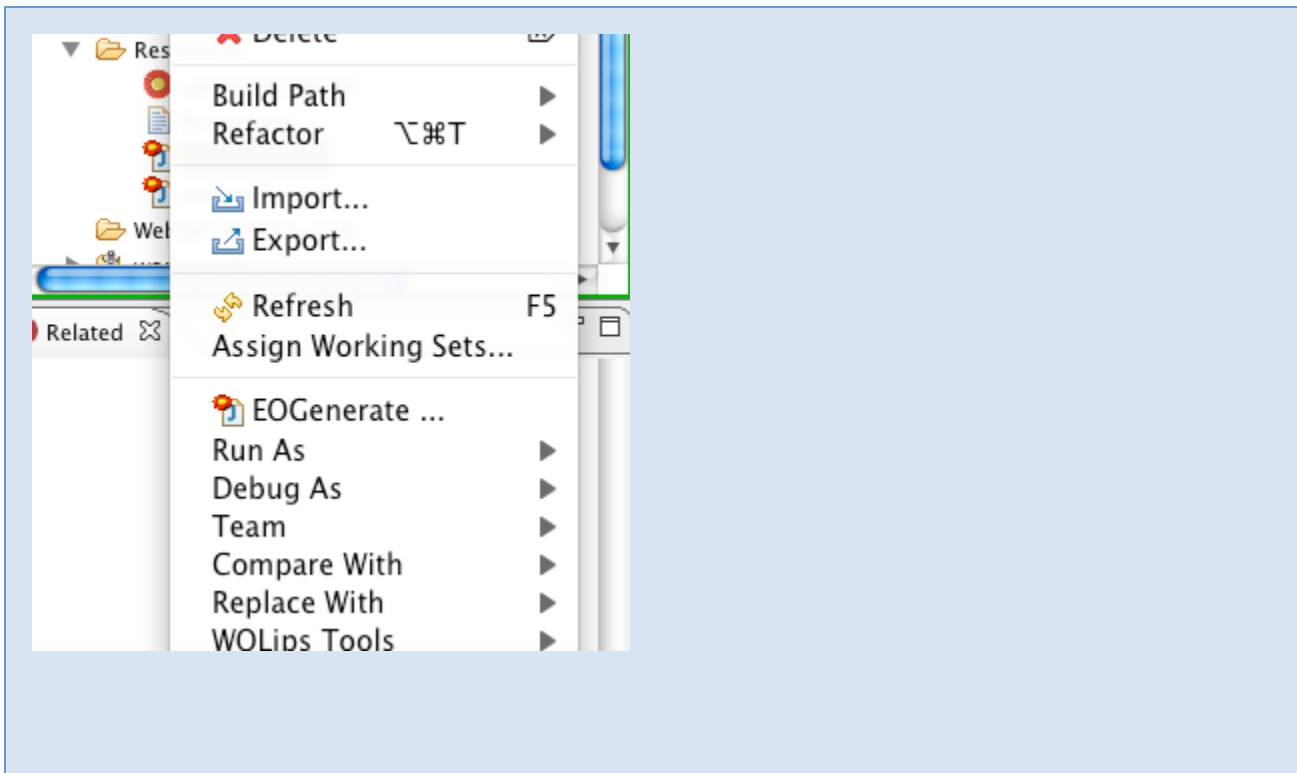
3. Go to the eomodel from which you want to create classes and subclasses in the WOPackage sidebar of Eclipse
4. Right click and choose WOLips Tools > Create EOGenerator File from the contextual menu, (it's a submenu)



Now a eogen file is created which has the name of the EOModel and an .eogen extension.  
If there is already an eogen file, then another one will be created, with a number between the EOModel name and the extension.  
The one with the highest number will be the newest (unless you decided to throw earlier ones away, then the numbering starts all over again).



5. Go to the eogen file, right click and choose EOGenerate... from the contextual menu.



If you have some definitions in your EOModel that have a Class Name that is not an EOGenericRecord, then the appropriate java class and subclass will be generated.

For instance: a Person class name in EOModel will result in a `_Person.java` file (which will be overwritten the next time EOGeneration will take place) and a `Person.java` file. The java file without the underscore is the file that will not be overwritten the next time. This file is the file that you would add your own methods. The next time the model changes, the `_underscore.java` file will be overwritten, but your methods are safe.

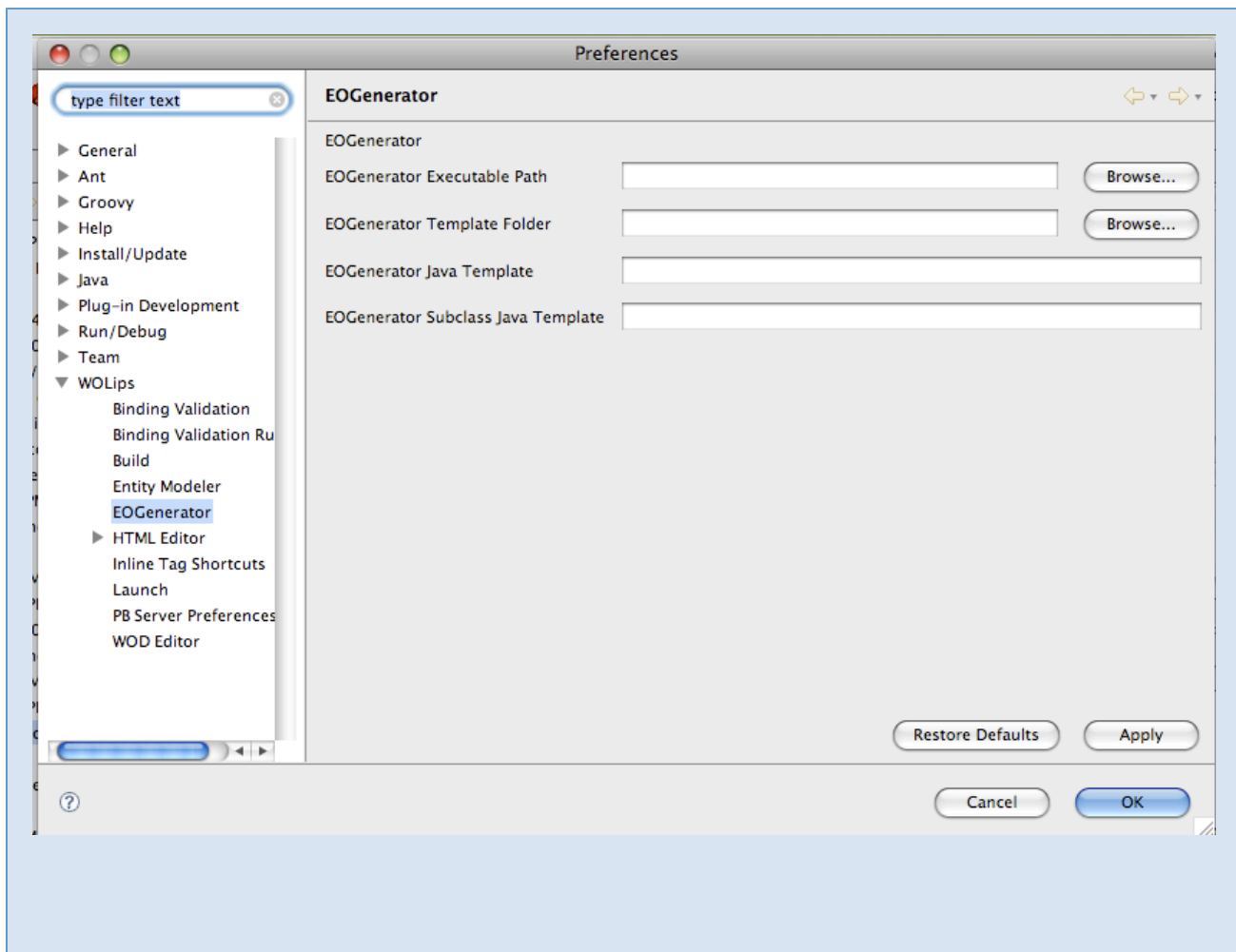
6. Check if everything worked out fine. If not (e.g. you made a typing error and a java file happens to be empty) throw away the generated file you do not want, and restart the process.

7. If you are fine, you can start fine tuning your templates, or start defining templates per project.

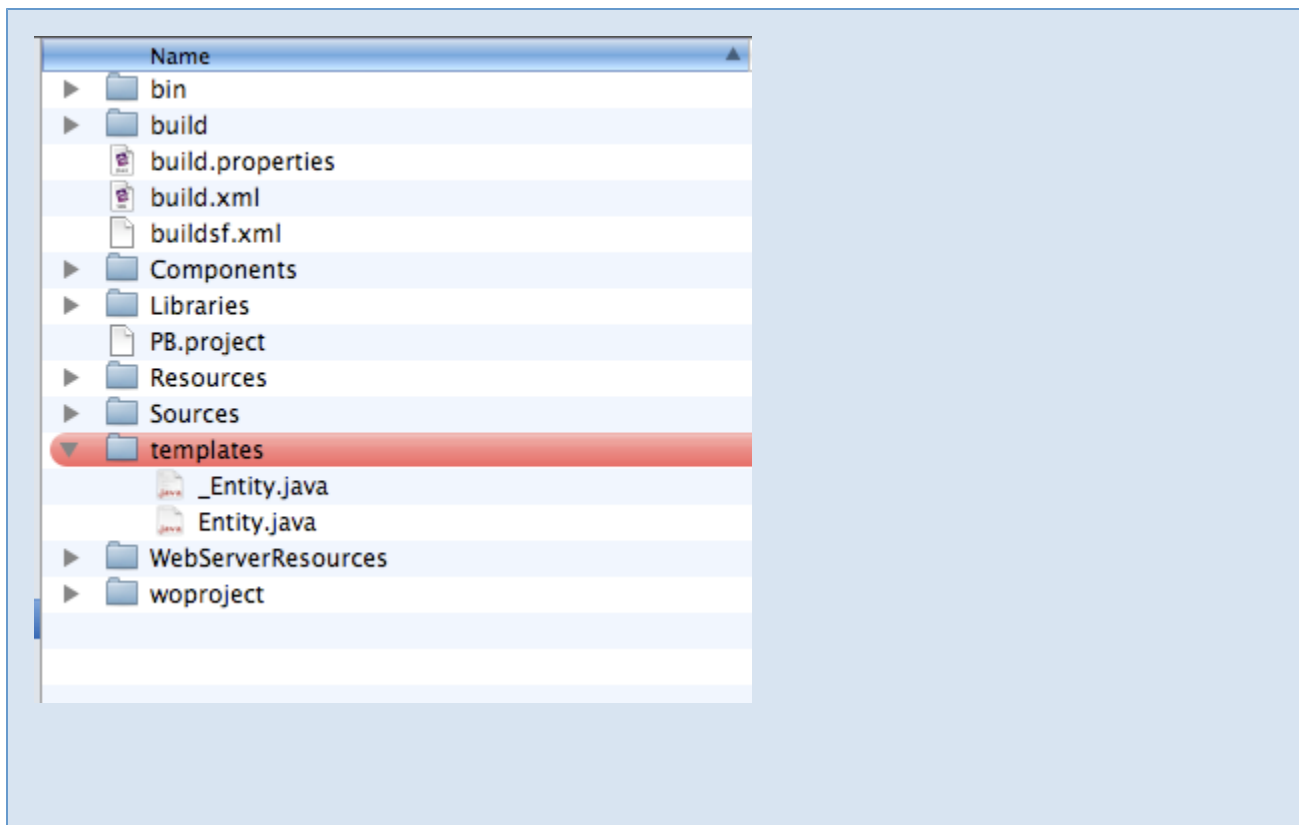
### **making Velocity EOGenerator settings per project**

1. Under Preferences > WOLips > EOGenerator

-> Remove all entries (this is not strictly necessary, but it rules out any errors at the project level)



2. Add a folder named templates in your project folder, inside of which you place your template files. For starters, don't rename them. You can download them here:  
<http://webobjects.mdimension.com/wolips/EOGenerator/Velocity%20EOGenerator%20Templates/>



Other options for Veogen to pick up any changes you wish to make to the templates:

- inside your eogen file you need to set template path to the folder containing `_Entity.java`, and if it's named something other than `_Entity.java`, you need to also set template name. Note that template name is ONLY a name, not a full path.
- or locate the template files in one of the paths that Velocity EOGenerator looks in by default (`~/Library/Application Support/WOLips/EOGenerator/_Entity.java`, for example).

3. Double check your model. It used to be true that none of your entities could extend `EOGenericRecord`. That is no longer true and you can use either custom classes or `EOGenericRecord` as a class, or a mix of the two. We suggest that your entity classes should be in packages for this all to work optimally, such as `"your_com.projectname.eo_class"`. If you use a class that is not in a package, there may be a number of errors in the resulting Java class files.

Name ▲	Table Name	Class Name
VFClient	VF_CLIENT	screenfood.eo.VFClient
VFClientFolder	VF_CLIENT_FOLDER	screenfood.eo.VFClientFolder
VFClientLayout	VF_CLIENT_LAYOUT	screenfood.eo.VFClientLayout
VFClientLayoutFolder	VF_CLIENT_LAYOUT_FOLDER	screenfood.eo.VFClientLayoutFolder
VFClientLayoutPriority	VF_CLIENT_LAYOUT_PRIORITY	screenfood.eo.VFClientLayoutPriority
VFClientLayoutPriorityInClient	VF_CLIENT_LAYOUT_PRIORITY_IN_CLIENT	screenfood.eo.VFClientLayoutPriorityInClient
VFClientPriority	VF_CLIENT_PRIORITY	screenfood.eo.VFClientPriority
VFComponent	VF_COMPONENT	screenfood.eo.VFComponent
VFContent	VF_CONTENT	screenfood.eo.VFContent
VFContent2VFProfile	VF_CONTENT2VF_PROFILE	screenfood.eo.VFContent2VFProfile
VFContentFolder	VF_CONTENT_FOLDER	screenfood.eo.VFContentFolder
VFContentPriority	VF_CONTENT_PRIORITY	screenfood.eo.VFContentPriority
VFContentTab	VF_CONTENT_TAB	screenfood.eo.VFContentTab
VFDynamicContent	VF_DYNAMIC_CONTENT	screenfood.eo.VFDynamicContent
VFDynamicContentFolder	VF_DYNAMIC_CONTENT_FOLDER	screenfood.eo.VFDynamicContentFolder
VFDynamicContentPriority	VF_DYNAMIC_CONTENT_PRIORITY	screenfood.eo.VFDynamicContentPriority
VFKairosStore	VF_KAIROS_STORE	screenfood.eo.VFKairosStore

4. Create or edit your .eogen file, mine looks like this:

### EOGenerator

#### Models

These models will have Java files generated for all of their entities.

Resources/SF.eomodeld

Add...  
Remove

#### Referenced Models

These models are used to resolve type references from models listed in the first section. No Java files will be generated for these models.

Add...  
Remove

#### File Names

These settings control the names of the produced files.

Filename Template:

Prefix:

#### Destination Paths

These paths specify where generated files will be written and are project-relative.

Create Packages?

Destination: Sources  Browse...

Subclass Destination: Sources  Browse...

Templates Folder: templates  Browse...

Template: \_Entity.java  Browse...

Subclass Template: Entity.java  Browse...

#### Templates

These paths specify the templates that will be used to generate files. If left blank, the defaults from the EOGenerator preference page will be used.

Java?

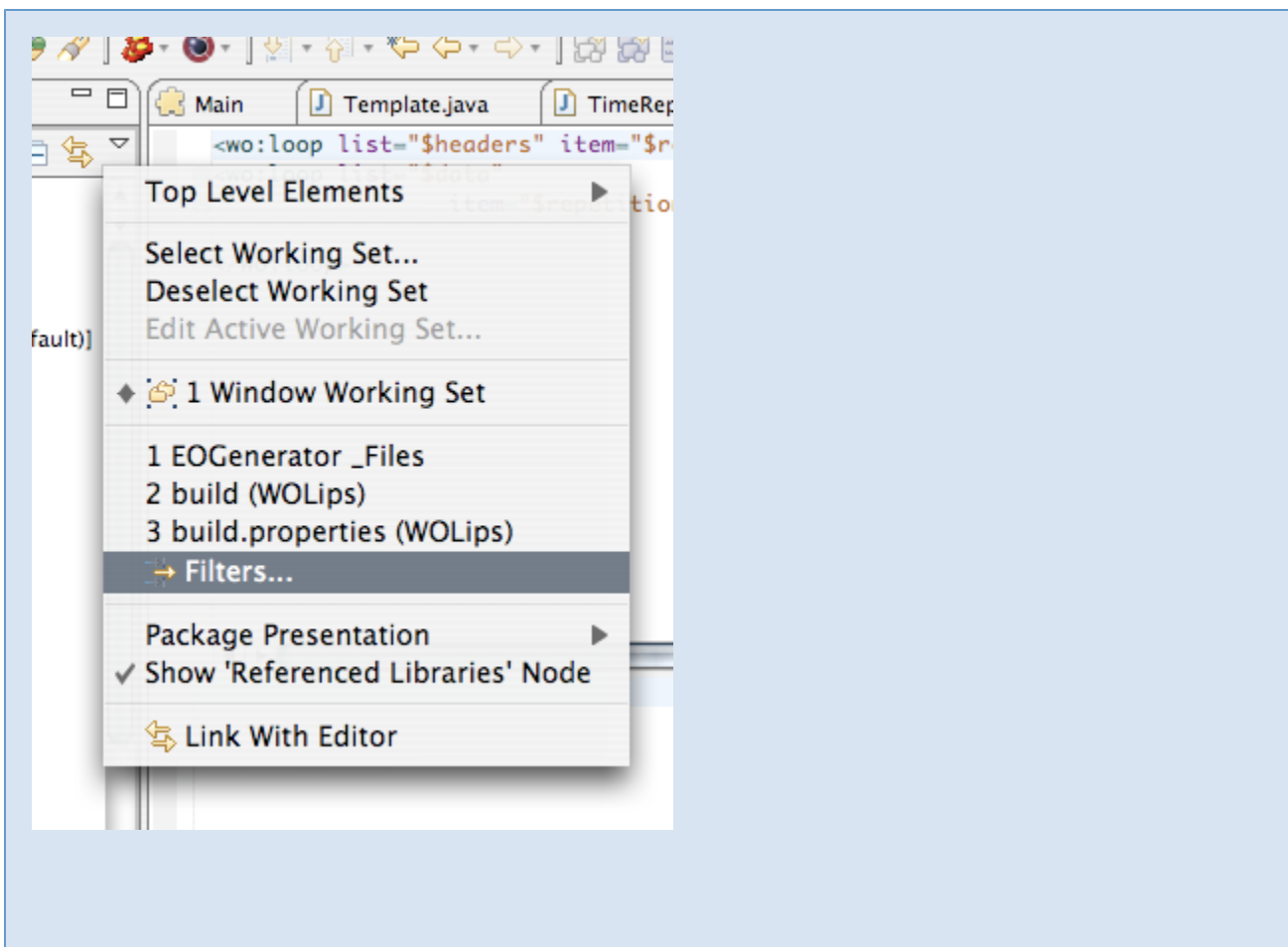
Java Client?

5. Double check, and open the .eogen file using open with > text editor. The whole command must all be on a single line; this is formatted for clarity:



```
1. -destination Sources
   -java
   -javaTemplate _Entity.java
   -model Resources/SF.eomodeld
   -packagedirs
   -subclassDestination Sources
   -subclassJavaTemplate Entity.java
   -templatedir templates
   -verbose
```

6. If you are not seeing your entity files that start with the underscore character "\_" in Eclipse, it is because you have them filtered out. Select filters from the down triangle in the package explorer:



7. Then uncheck 'EOGenerator \_Files':

