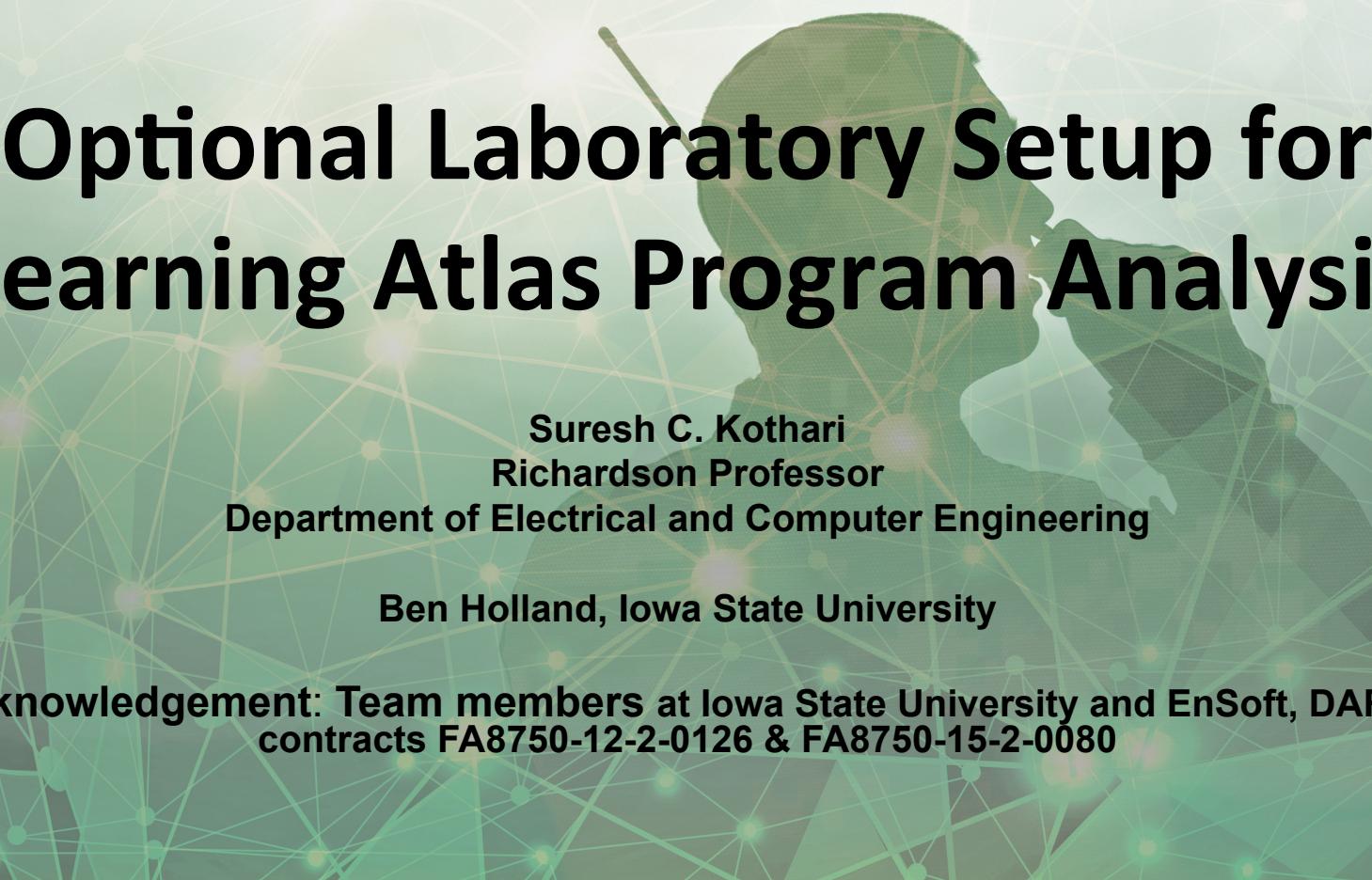




SECURE COMMUNICATIONS AT THE SPEED OF CYBER

Optional Laboratory Setup for Learning Atlas Program Analysis



A faint silhouette of a person's head and shoulders is visible against a background of a network of green and yellow dots connected by lines, representing a complex system or network. The person appears to be holding a small antenna or tower.

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Learning this material is like learning to swim. The best way to learn is to jump in and try it yourself. There will be breakout sessions for you to practice material with your peers.

We highly encourage to you complete the Module 0 Lab Setup outlined in the following slides before coming to the tutorial!

That being said the solutions to hands on material will be demonstrated at the end of each break out session so if your goal is to learn the theory and you just want to watch, that is fine too.

Material Updates/Errata

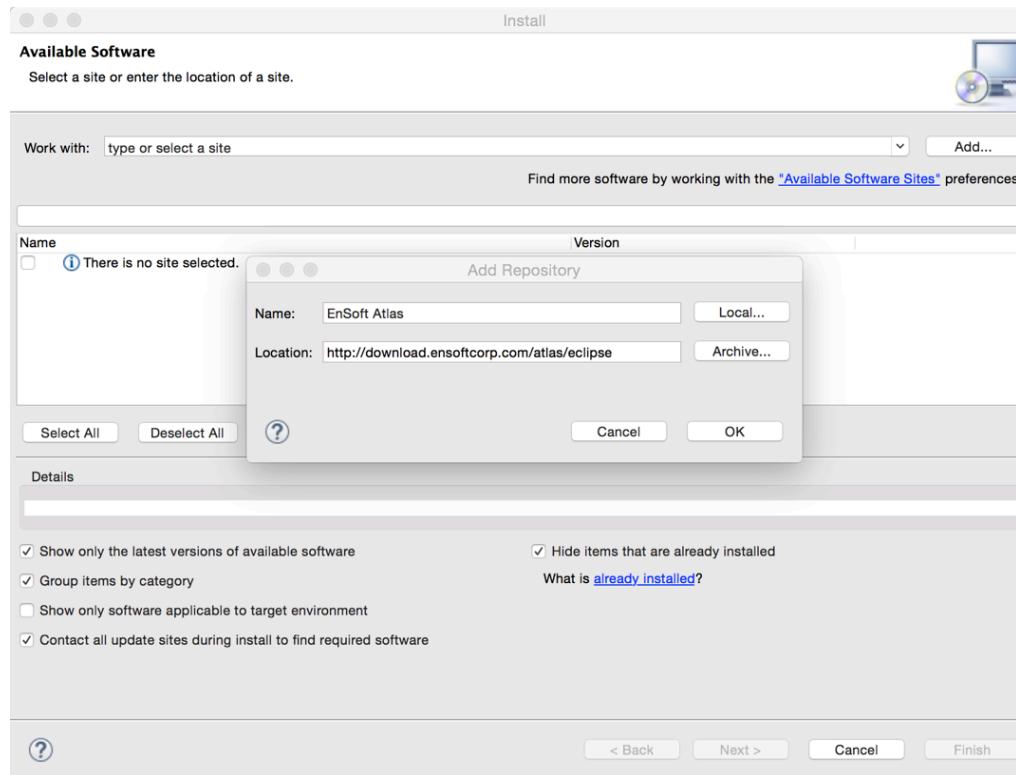
- Updated versions of these slides, code, and other materials are available at:
<https://github.com/benjholla/MILCOM2016>

- To setup your machine for lab exercises, please complete the Module 0 Lab Setup steps before arriving at the tutorial
- Optionally, a preconfigured Eclipse distribution will be provided at the beginning of the tutorial session
- Please contact bholland@iastate.edu with setup questions
- Stop at Module 1
- Requirement:
 - Access to a machine with \geq 4 GB of RAM, 8 recommended!

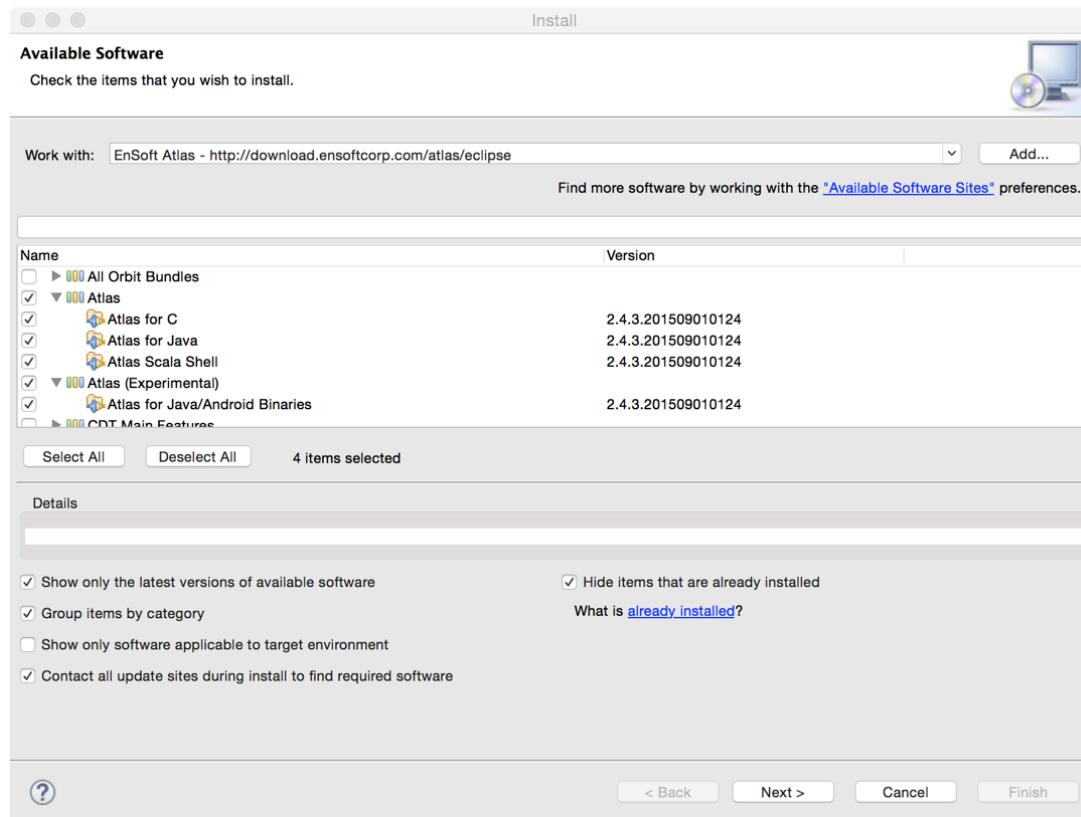
- Download Eclipse Mars for Mac, Windows, or Linux
 - Download the “Eclipse IDE for Java Developers” package
 - <https://www.eclipse.org/downloads/packages/release/Mars/2>
- Create a directory called “MILCOM2016”
- Extract the “eclipse” folder of the Eclipse download to “MILCOM2016”
- Inside “MILCOM2016” create a folder called “workspace” and a folder called “git”.

- Inside the “MILCOM2016/eclipse” folder double click the Eclipse binary to launch Eclipse.
- When Eclipse launches, press the “Browse...” button and navigate to the “MILCOM2016/workspace” folder. Press “OK” to launch Eclipse with the selected workspace.

- Within Eclipse, navigate to Help → Install New Software...
- Press “Add...” and enter “EnSoft Atlas” in the “Name” field and <http://download.ensoftcorp.com/atlas/eclipse> in the “Location” field.

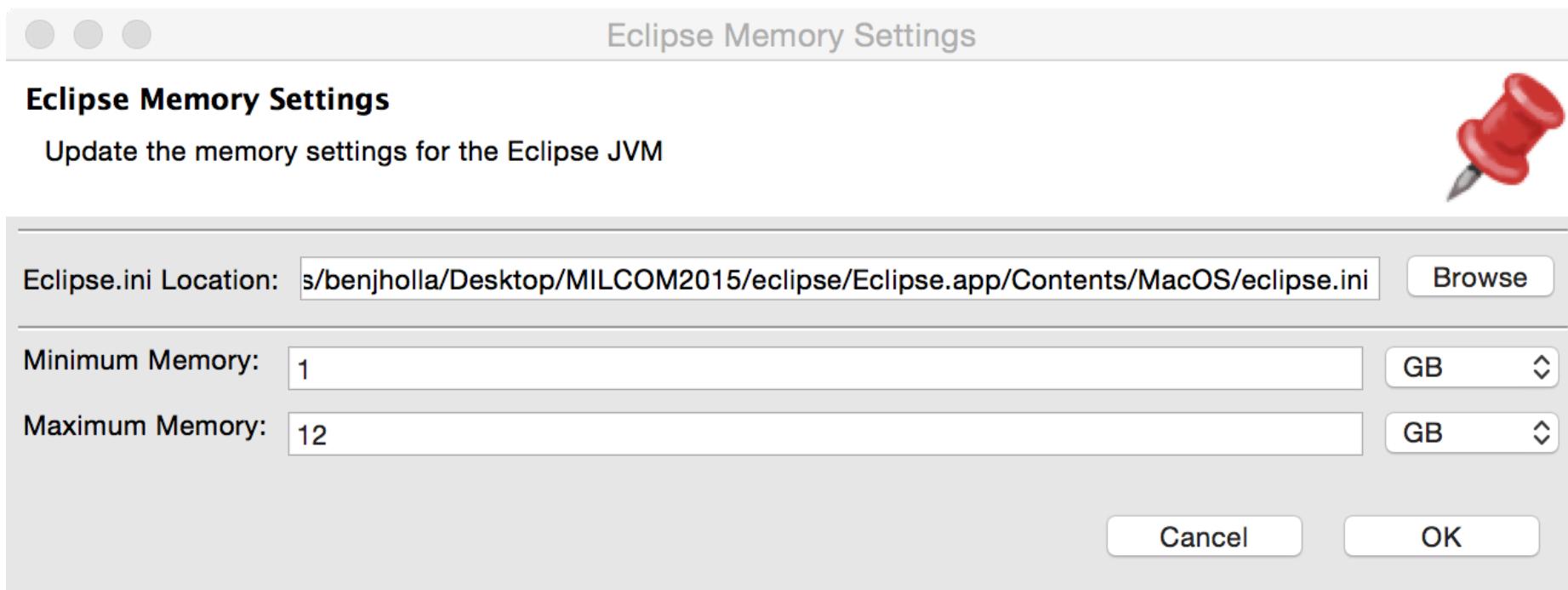


- Select the “Atlas” **AND** “Atlas (Experimental)” features.
- Press “Next”, accept the license agreement, and press “OK” to install unsigned content. Restart Eclipse.

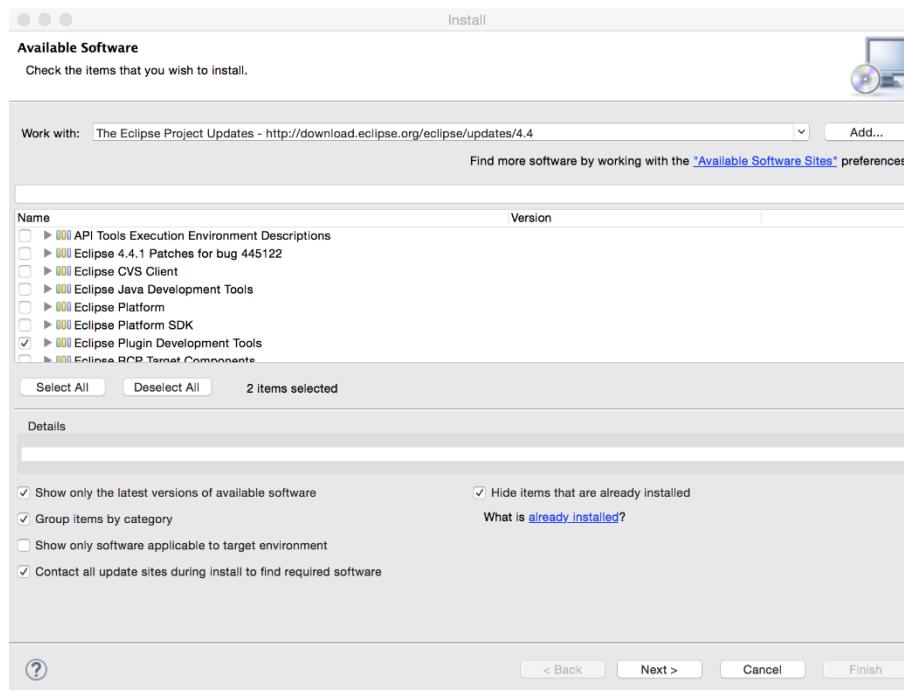


- In Eclipse, navigate to Eclipse/Window → Preferences → Atlas → License and enter your License key and License email, which can be obtained through one of the following methods:
 - An Atlas License for the MILCOM2016 Conference Attendees will be provided during the tutorial.
 - For Academics, a complimentary 1 year license is available at:
<http://www.ensoftcorp.com/atlas/academic-license/>
 - A 1 month trial license at:
<http://www.ensoftcorp.com/atlas/trial/>

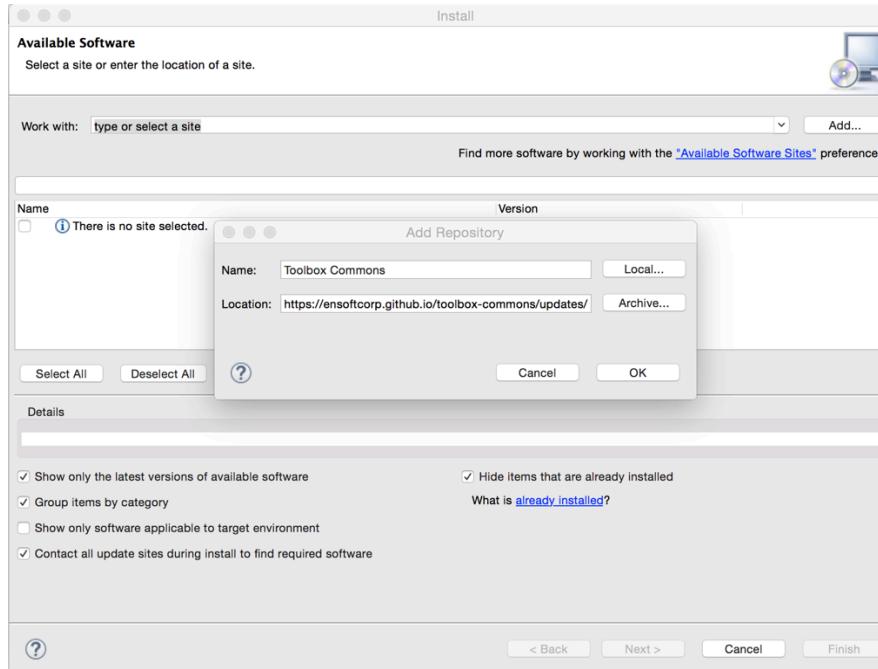
- Inside Eclipse, navigate to Atlas → Eclipse Memory Settings
- Increase the maximum to a value \geq 4 GB
- Press OK and then restart Eclipse



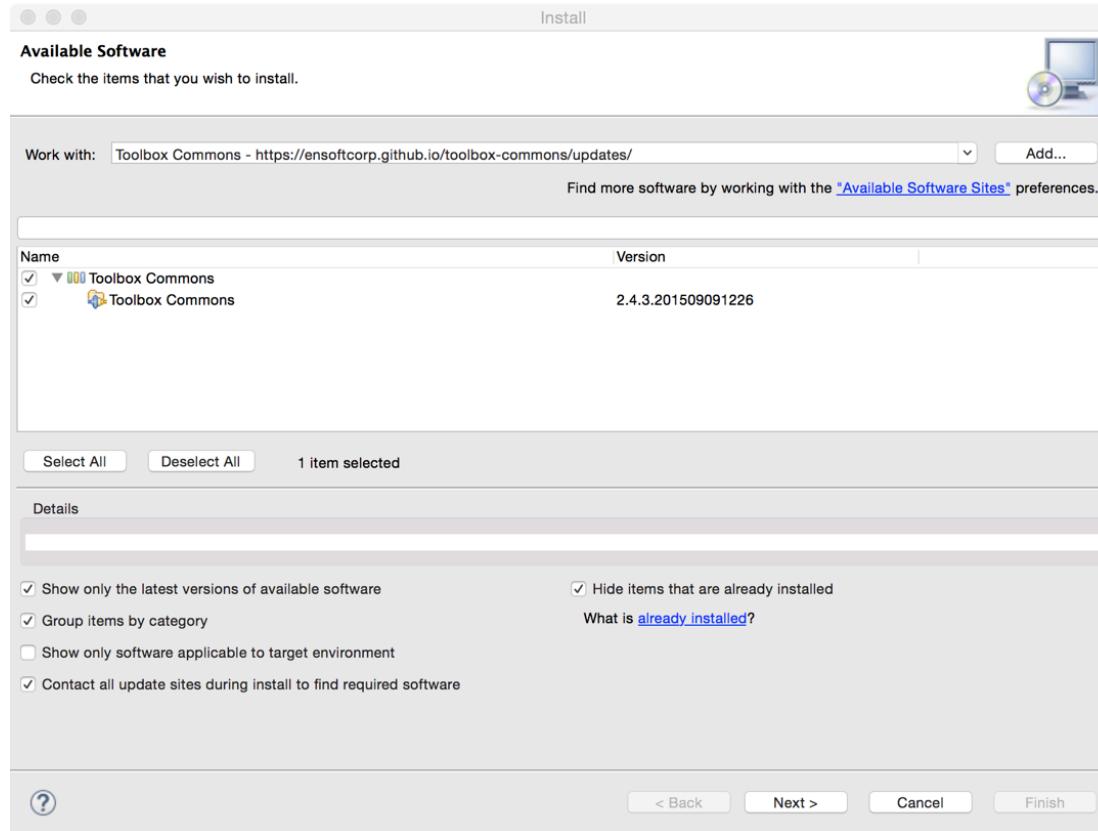
- Within Eclipse, navigate to Help → Install New Software...
- In the “Works With:” field, search for “Updates”. Select the “The Eclipse Project Updates” update site.
- Select the “Eclipse Plugin Development Tools” feature for installation. Restart Eclipse.



- Within Eclipse, navigate to Help → Install New Software...
- Press “Add...” and enter “Toolbox Commons” in the “Name” field and <https://ensoftcorp.github.io/toolbox-commons/updates/> in the “Location” field.
- Details: <https://ensoftcorp.github.io/toolbox-commons/>



- Select the Toolbox Commons feature, press “Next”, accept the license agreement. Restart Eclipse.



- Within Eclipse, navigate to Help → Install New Software...
- Press “Add...” and enter “AtlasWBP” in the “Name” field and <http://ben-holland.com/AtlasWBP/updates/> in the “Location” field.
- Details: <https://ben-holland.com/AtlasWBP/>
- Select the AtlasWBP feature, press “Next”, accept the license agreement. Restart Eclipse.

- On the command line navigate to the “MILCOM2015/git” folder
- Clone the [LearningAtlas](#) repository into the “MILCOM2015/git” folder with the following command:
 - *git clone <https://github.com/EnSoftCorp/LearningAtlas.git>*
- Navigate to File → Import... → General → Existing Projects into Workspace
- In the “Select Root Directory” field, press “Browse...” and navigate to the “MILCOM2016/git/LearningAtlas” folder
- Select the “MyProject” project and press the “Finish” button to import the project

- Within Eclipse, navigate to Atlas → Manage Project Settings. Select the “MyProject” project (or the project(s) you want to analyze) and make sure that it is the only project listed in the “Map” category. Press OK to save changes.
- Next, navigate to Window → Show View → Other... → Atlas → Atlas Shell and press OK.

Your Eclipse Should Now Look Something Like This...

