

Eclipse as an XML Editor

Where do I get Eclipse?

- Google for “Eclipse” and it will be the first result
- Click “Downloads” link on the first result

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A project aiming to provide a universal toolset for development. Open Source IDE, mostly provided in Java, but the development language is independent and ...
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Downloads	Application Frameworks
Language IDE	Projects
Documentation	Embedded
New to Eclipse	Enterprise Java

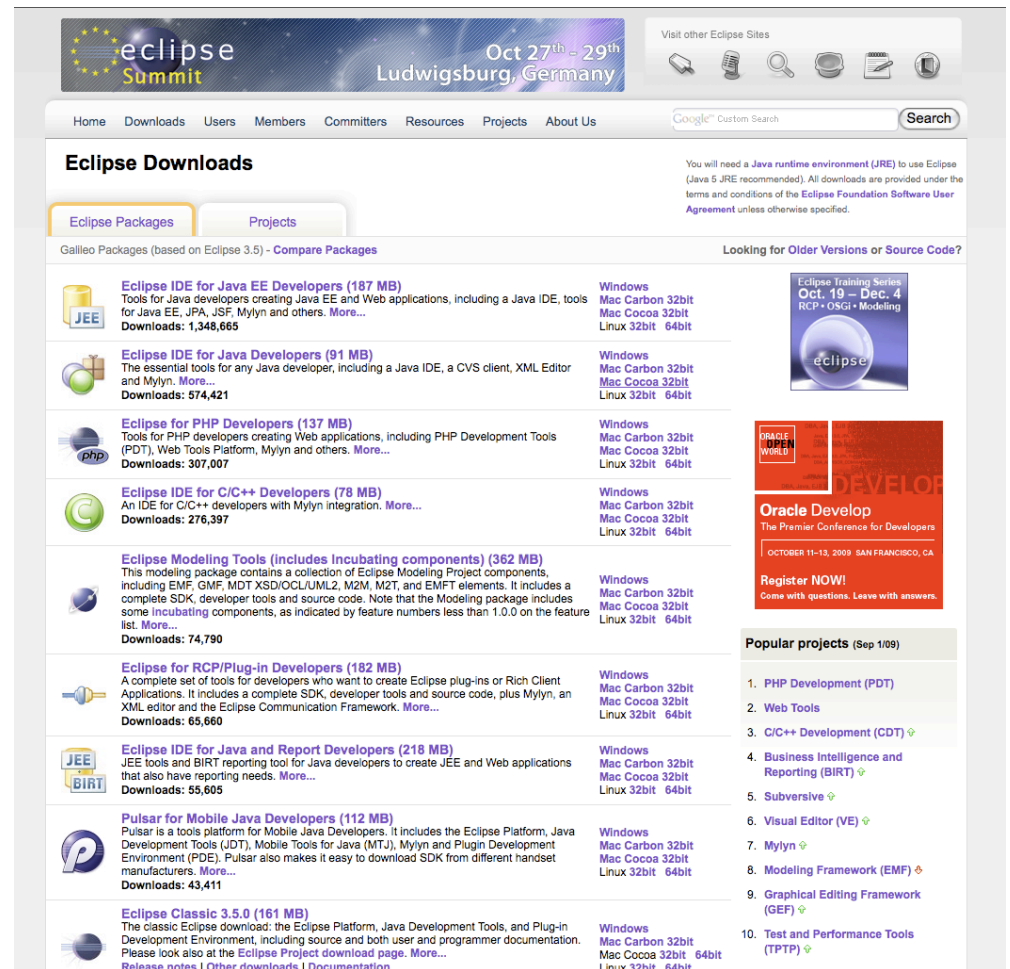
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[NASA Eclipse Web Site](#)
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But which one ...

- You will want to download the “Eclipse IDE for Java Developers”
- It’s the smallest package with the XML plugin installed
- So pick the download that corresponds to your operating system



The screenshot shows the Eclipse Downloads page. At the top, there's a banner for the Eclipse Summit in Ludwigsburg, Germany, from Oct 27th to 29th. Below the banner is a navigation bar with links: Home, Downloads, Users, Members, Committers, Resources, Projects, About Us. A search bar is on the right. The main heading is "Eclipse Downloads". Below it, there are tabs for "Eclipse Packages" and "Projects". A note states: "You will need a Java runtime environment (JRE) to use Eclipse (Java 5 JRE recommended). All downloads are provided under the terms and conditions of the Eclipse Foundation Software User Agreement unless otherwise specified." The main content area lists various Eclipse packages with their download counts and supported operating systems. On the right, there are promotional banners for Eclipse Training Series and Oracle Develop. At the bottom right, there's a "Popular projects" list.

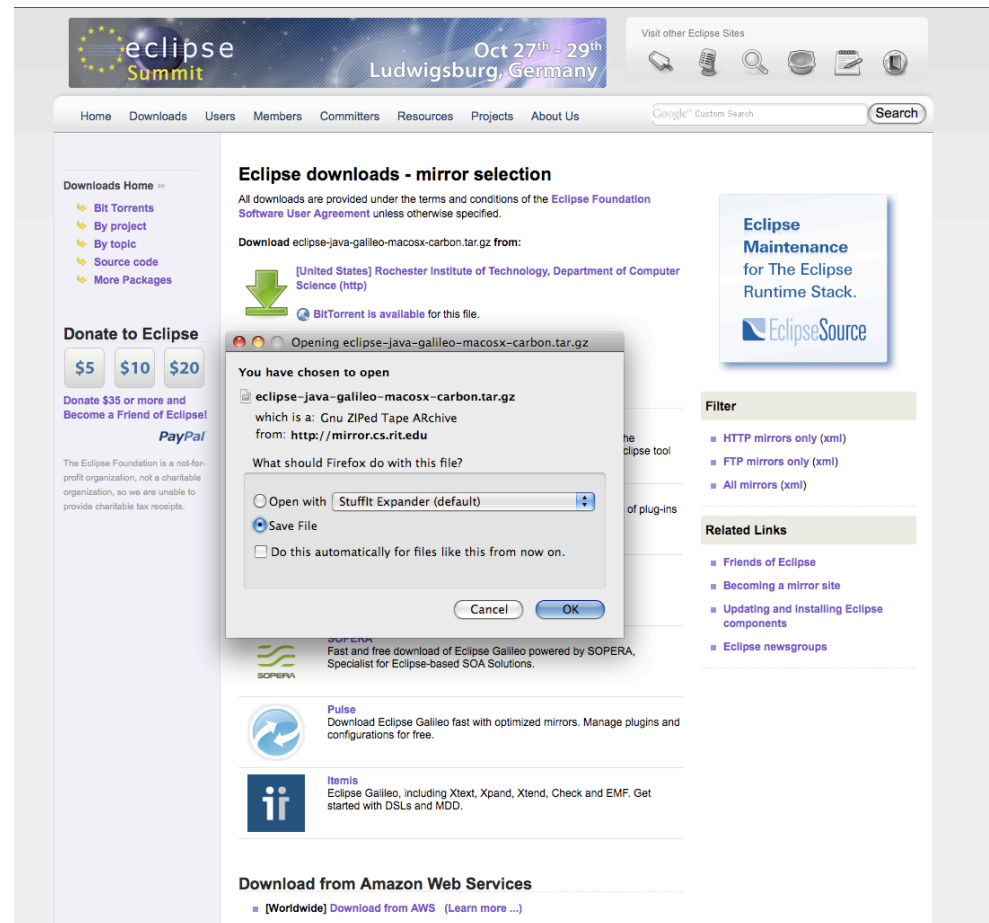
Package Name	Size	Downloads	Operating Systems
Eclipse IDE for Java EE Developers	187 MB	1,348,665	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit
Eclipse IDE for Java Developers	91 MB	574,421	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit
Eclipse for PHP Developers	137 MB	307,007	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit
Eclipse IDE for C/C++ Developers	78 MB	276,397	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit
Eclipse Modeling Tools (includes incubating components)	362 MB	74,790	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit
Eclipse for RCP/Plug-in Developers	182 MB	65,660	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit
Eclipse IDE for Java and Report Developers	218 MB	55,605	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit
Pulsar for Mobile Java Developers	112 MB	43,411	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit
Eclipse Classic 3.5.0	161 MB	-	Windows, Mac Carbon 32bit, Mac Cocoa 32bit, Linux 32bit 64bit

Popular projects (Sep 1/09):

1. PHP Development (PDT)
2. Web Tools
3. C/C++ Development (CDT)
4. Business Intelligence and Reporting (BIRT)
5. Subversive
6. Visual Editor (VE)
7. Mylyn
8. Modeling Framework (EMF)
9. Graphical Editing Framework (GEF)
10. Test and Performance Tools (TPPT)

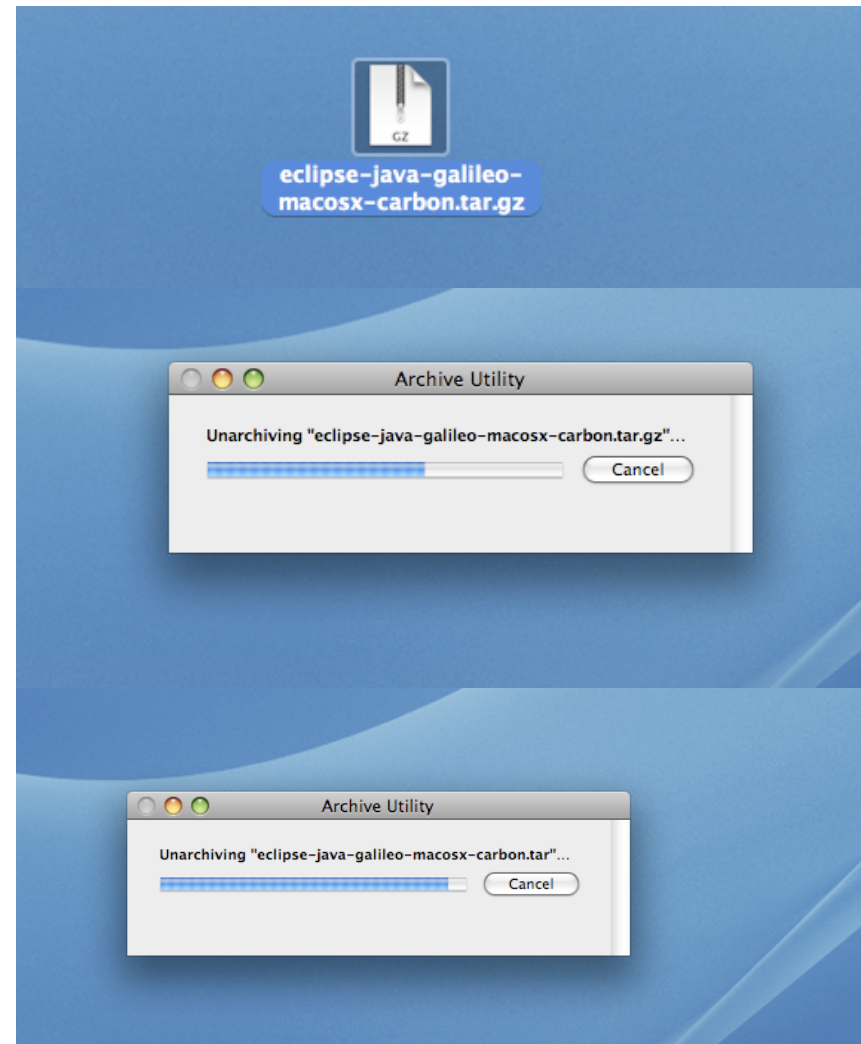
Now it's time to download

- Click that big green arrow to start your download
- I'm using Firefox so I get this download dialog box
- Click OK and depending on your network connection it may take a few minutes to download



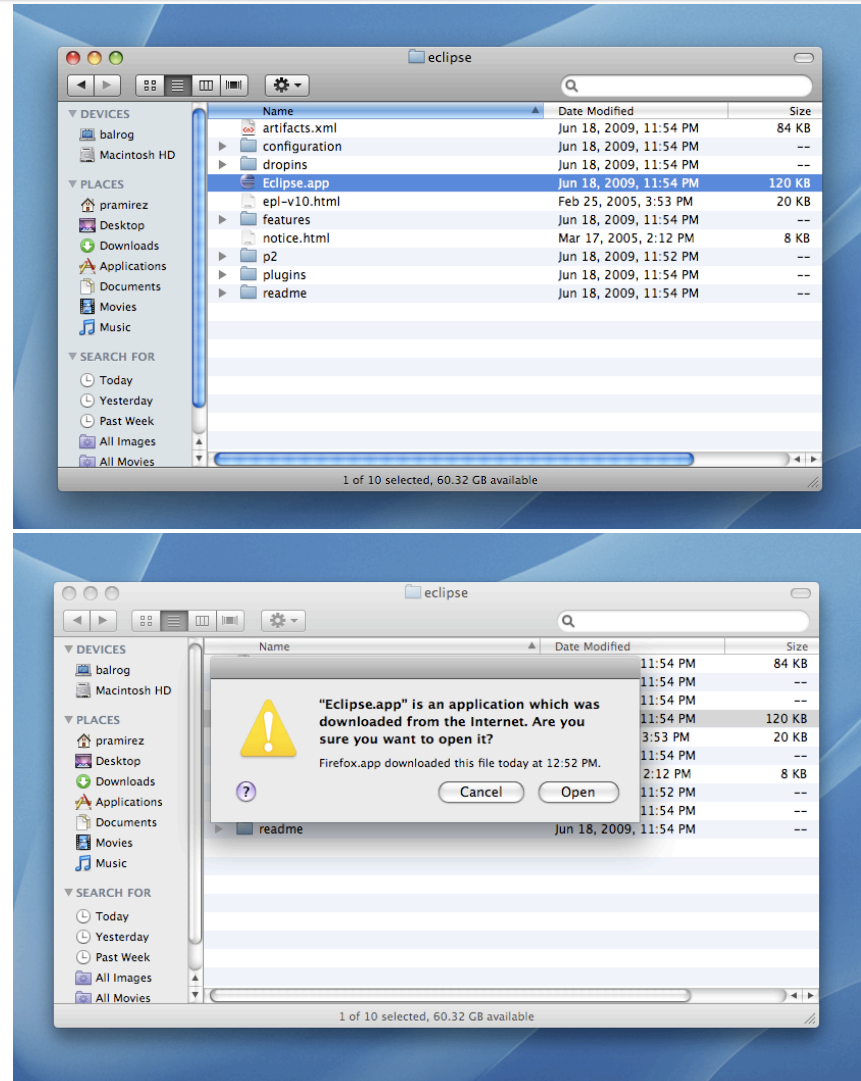
Installation on Mac

- The result of the download is an icon on the desktop
- The Mac version comes as a zipped up tar file so it first unzips it and then un-tars when it is double-clicked
- Other platforms should work similarly



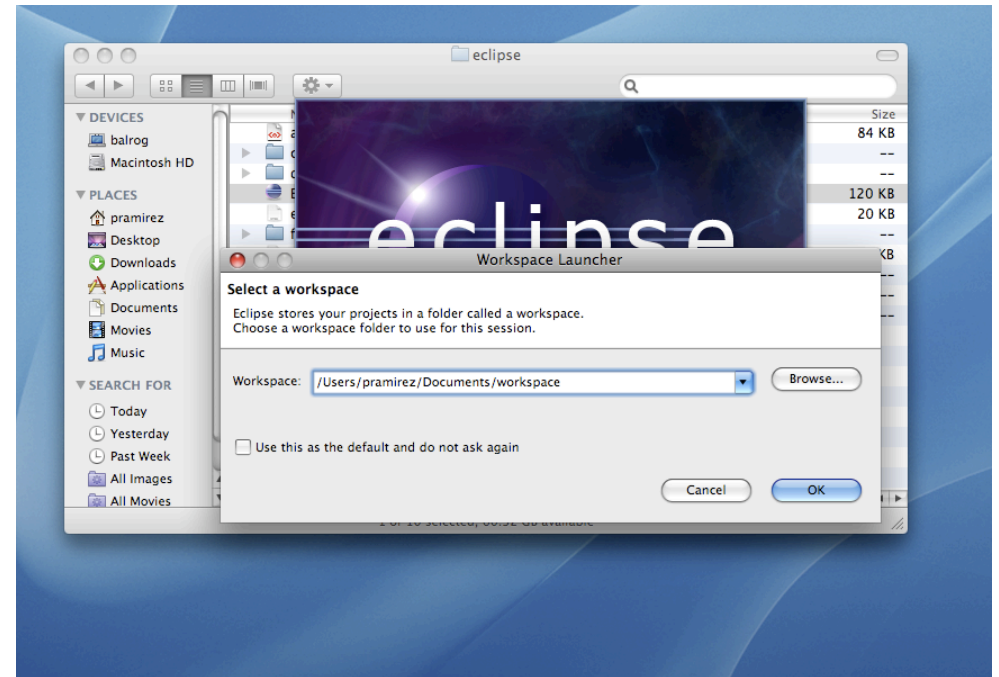
What to launch?

- The extraction results in a folder that contains the Eclipse application
- Double-click on the “Eclipse.app” icon to launch
- Mac OS X 10.5 will warn about a downloaded application, which is safe to ignore



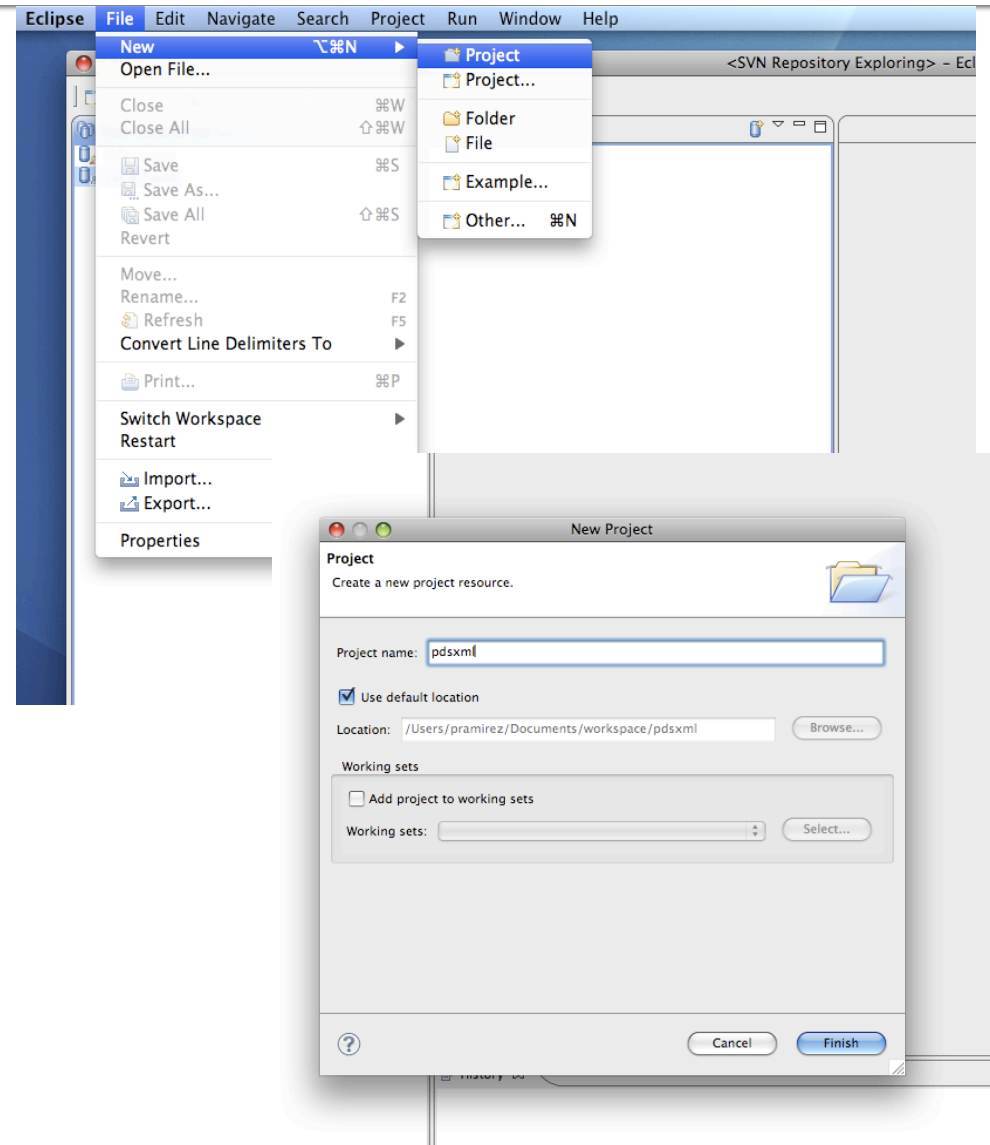
Specify a workspace

- Eclipse now wants to know where you would like to store your project files



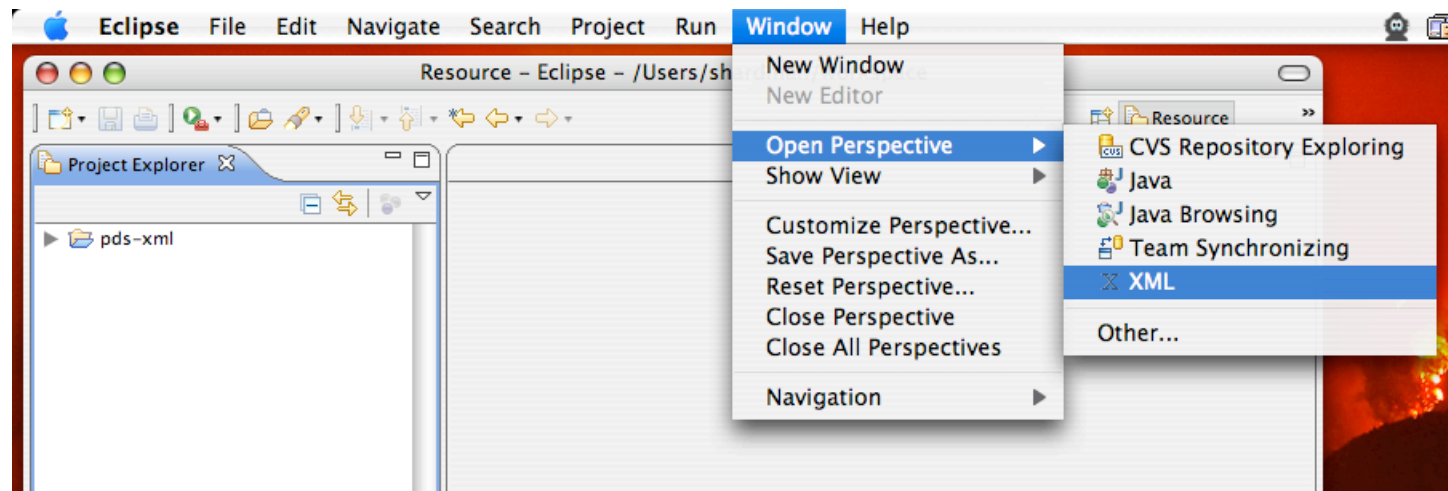
Create a project

- Before you get to slinging some XML you will need to create a "Project"
- This is something that Eclipse does to organize a bunch of files you may be working on
- Give your project a name, like "pdsxml"
- Click Finish and you are done creating a project



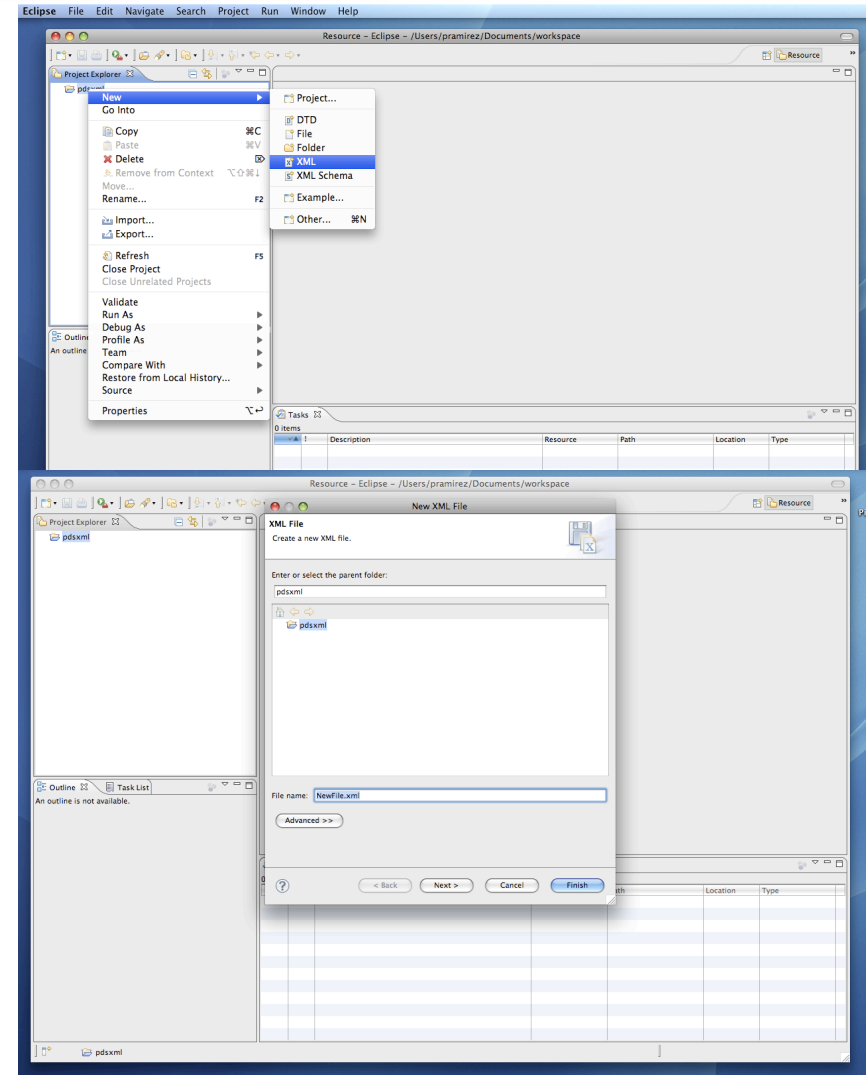
Choose a perspective

- The XML perspective is a little easier to use for creating and viewing XML files. (The Resource perspective is used in the following screen shots.)
- Select the “XML” perspective from the “Window” menu under the “Open Perspective” menu item.



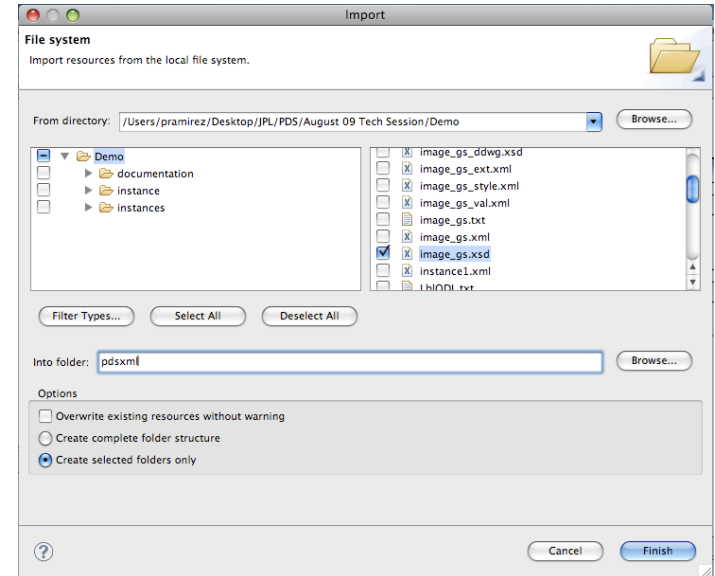
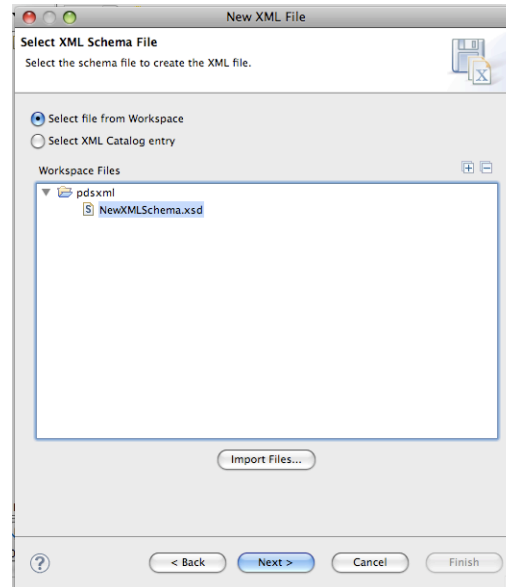
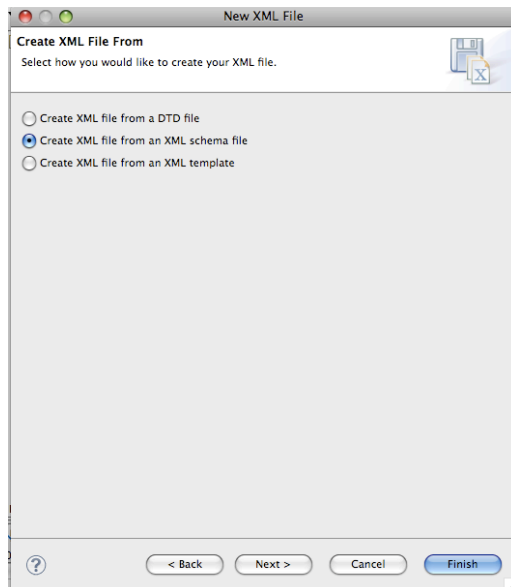
Create blank XML file

- Right click on the project folder “pdsxml” and then select (New > XML)
- Give the file a name and click finish
- Now you can edit that XML file
- I know what you’re thinking ... There has to be more ... and yes there is



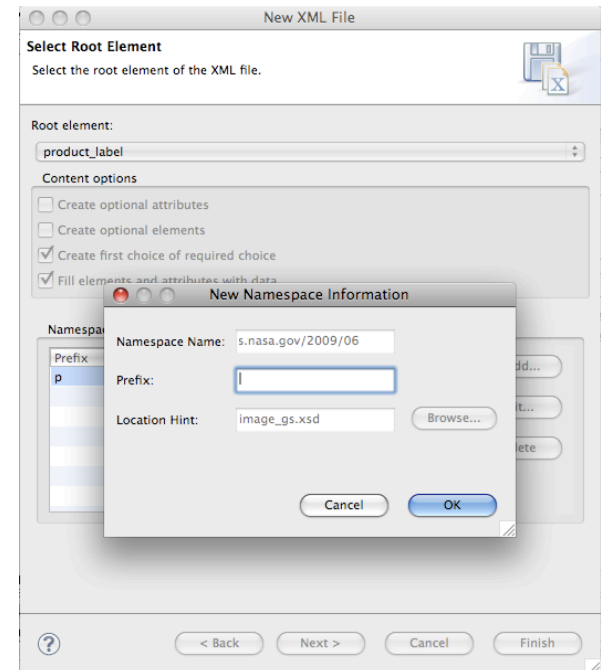
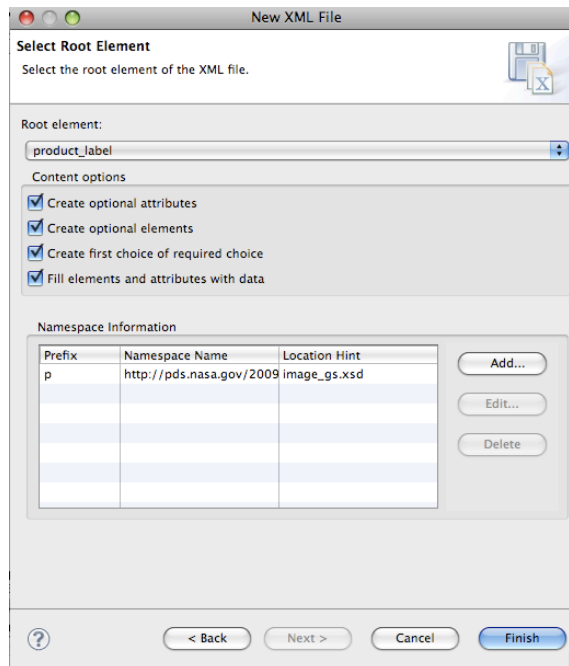
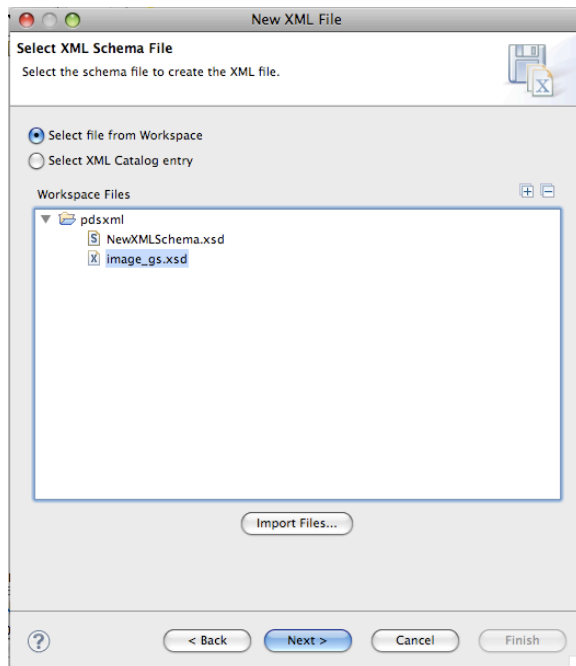
Create XML file from XML Schema

- Instead of clicking finish on the previous slide you can also click "Next"
- This will allow one to generate an XML file from an XML Schema
- Select the option to "... from XML schema file" and click "Next"
- Click the "Import Files.." button so we can grab a schema file outside our project
- Navigate to and select the schema file and place it in your current project



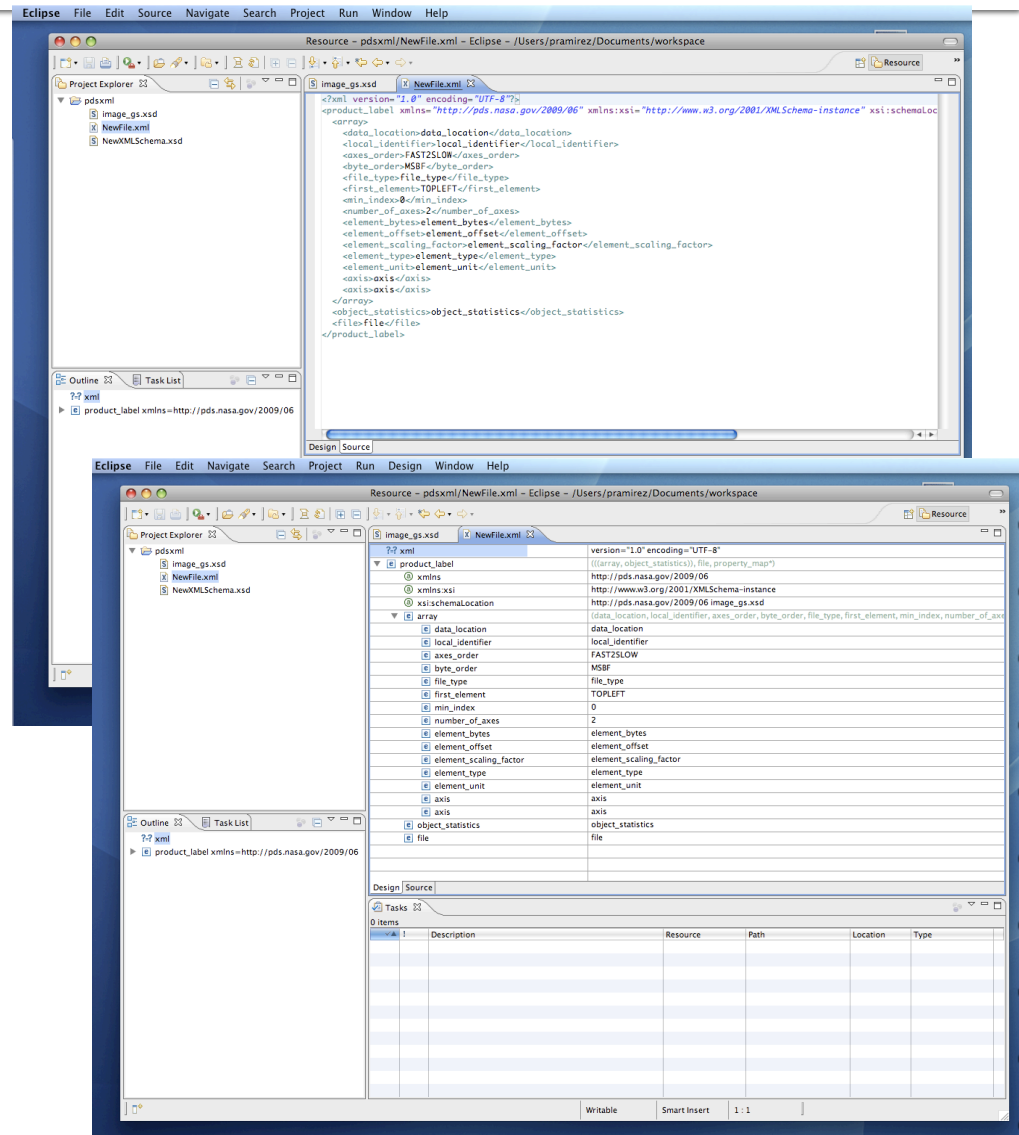
Create XML file from XML Schema (cont)

- Now select the schema we just imported
- Select the root element and make sure all the checkboxes are checked
- Edit the namespace information and remove the "Prefix" for the namespace that you want as default



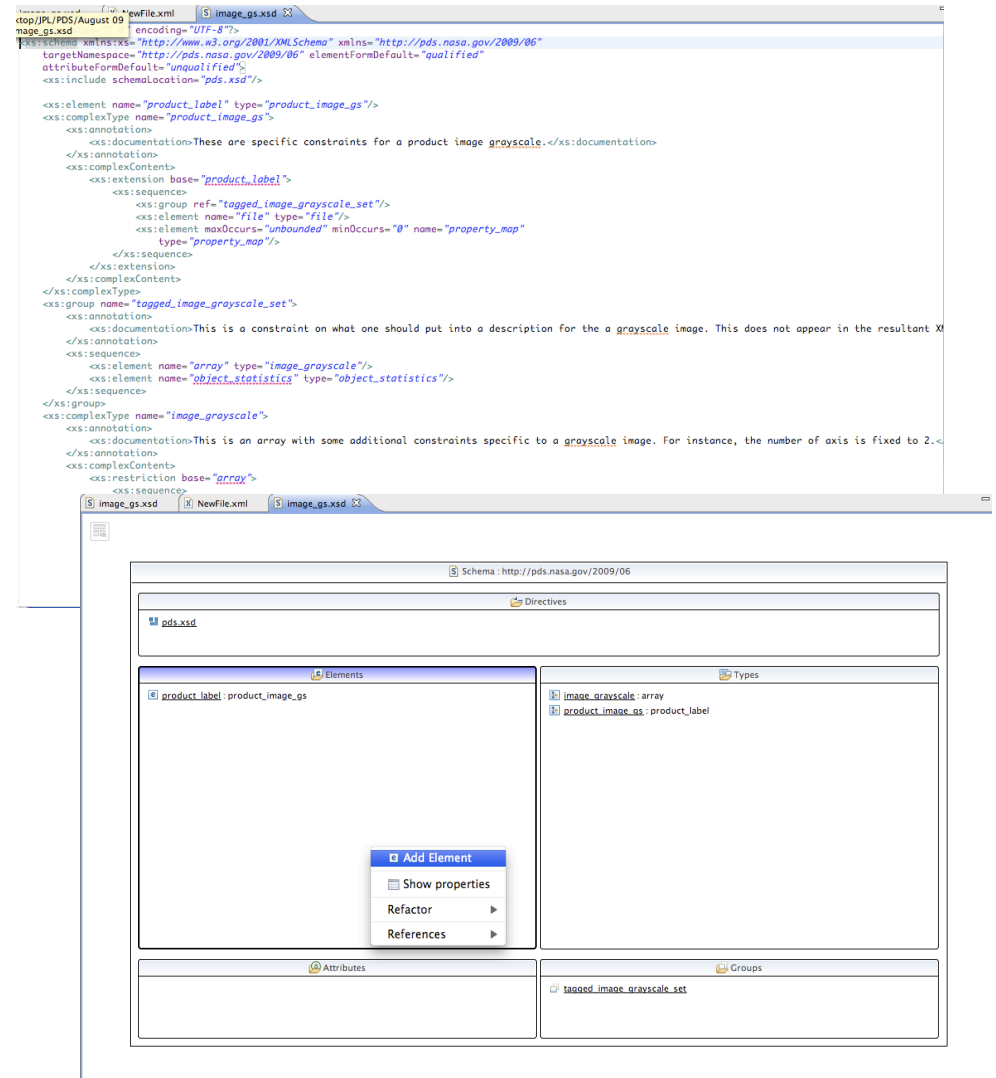
Two available views

- The “Source” view on top is the file with some syntax highlighting and nice indenting
- The “Design” view is a table-like way to edit the XML for those that don’t like XML



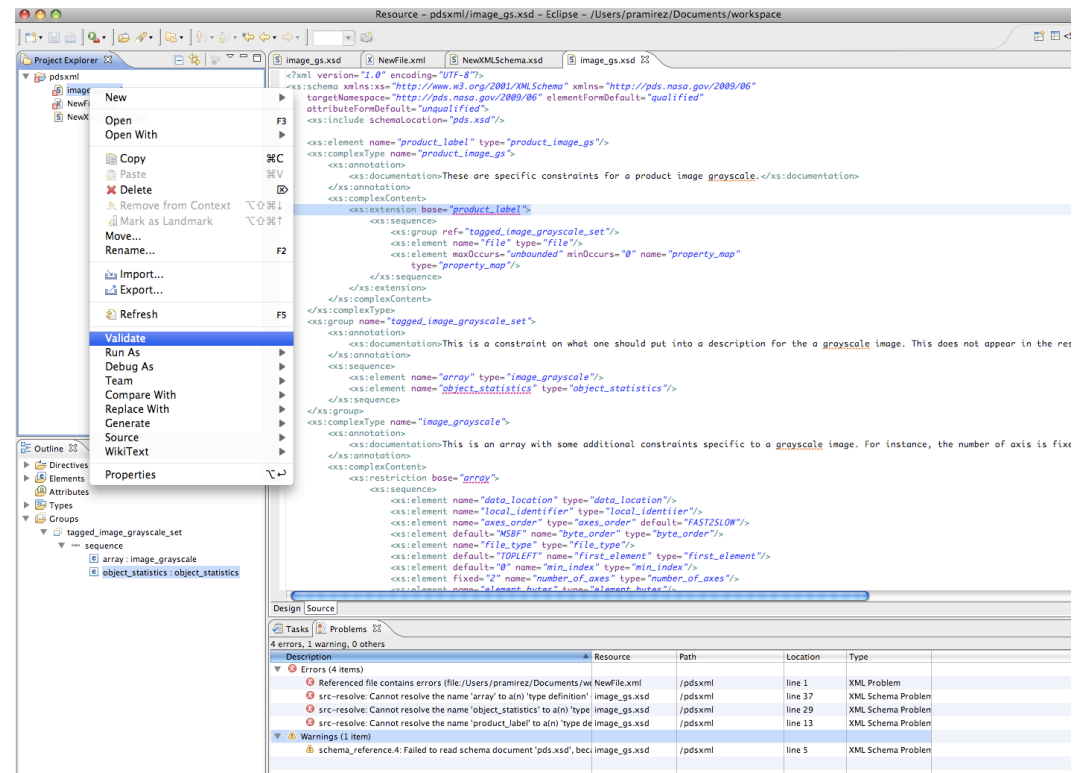
What about XML Schema?

- You can create an XML Schema from scratch or edit an existing one
- As with XML you can use "Source" or "Design" view
- The "Design" view is meant to be more user friendly for those that don't know as much about XML Schema



Validate the XML file

- Right click on the file and select Validate
- The problems will appear in the bottom window



The End?

- There are still some nifty features that haven't been covered
- Eclipse has a large user base
- Eclipse is available on several platforms
- Its free and open source
- It can be scary at first but it's a very nice editor
- Yep that's it for now