

Lecture on Demand Series

Introduction to Eclipse IDE

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Upon Completion of This Talk

You will know:

1. Details about Eclipse IDE
2. Core concepts used in Eclipse.

You will be able to:

1. install, and create projects in Eclipse
2. useful tips
3. get help when you are stuck!



Agenda

What is an IDE? Where does eclipse fit?

A brief history of Eclipse.

Where do we get Eclipse?

Installation

Key Concepts: Workspace, Perspective and View

"Hello World!" Project



What is IDE?

- Text Editor: Notepad, Notepad++, vim, emacs
- Regular process for Java: Editor, Compiler, Execute
- IDE = Integrated Development Environment
- More than an editor: compiler, build automation, debugger
- How do you manage a big project?
- A modern IDE has a lot more features.
- Who uses IDEs?
- Can be free or commercial.
- Examples: Eclipse, Netbeans, Microsoft Visual Studio, Anjuta, KDevelop



What about Eclipse?

- Eclipse is an astronomical event.
- BUT! We will talk about the IDE!!!
- Eclipse has everything an IDE should have: an editor, build automation and debugger.
- Supports team collaboration: (cvs, svn).
- Multi language support
- Business modeling.
- A lot of useful tools: search, refactoring.



A Brief History of Eclipse!

- Eclipse was a project of IBM Canada and born in Ottawa!
- Open sourced in 2001 and Eclipse foundation was established in 2004.
- Current: Galileo 3.5 - 24th June.
- A lot of business models are based on eclipse.



Installation

How to get eclipse?

- Three ways:

From Eclipse Website

From EasyEclipse Project

From Eclipse Derivative Website

Derivatives:

- FlexBuilder from Macromedia
- IBM Rational
- Zend PHP Buileder from Zend

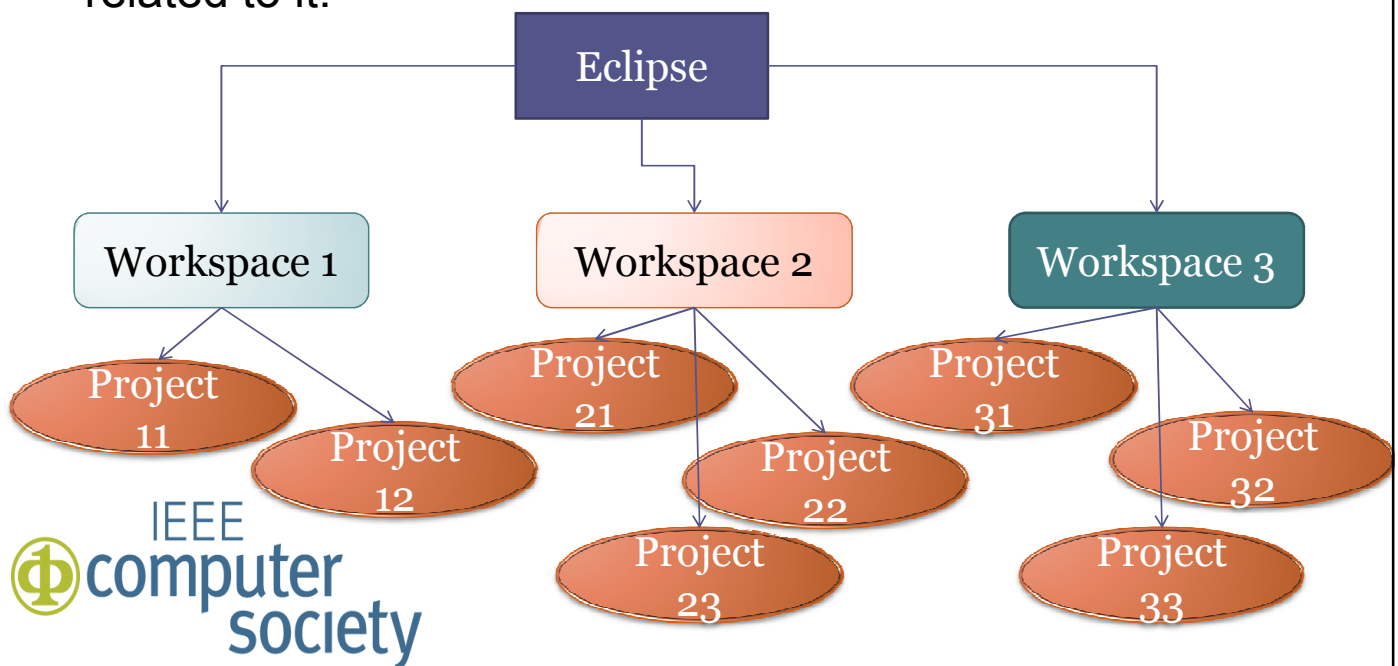
I got it... now what?



Workbench, Perspective and Views

Workspace Launcher:

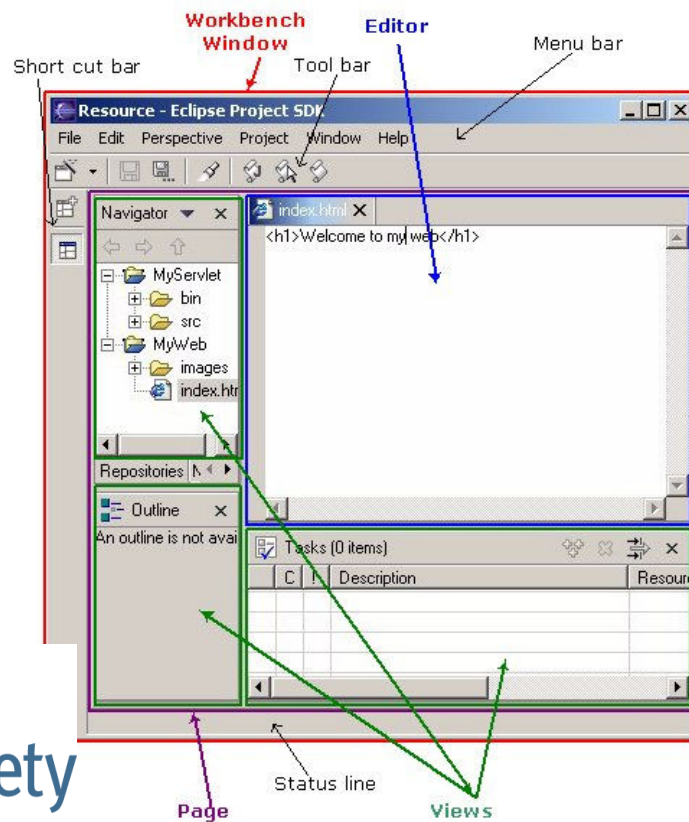
- Project Holder: Each workspace displays only the projects related to it.



Workbench, Perspective and Views

- Perspective: “determines the visible actions and views within a window.”
- Usually different languages has different perspectives.
- Perspectives makes life easier.
- Customizable.

Workbench, Perspective and Views



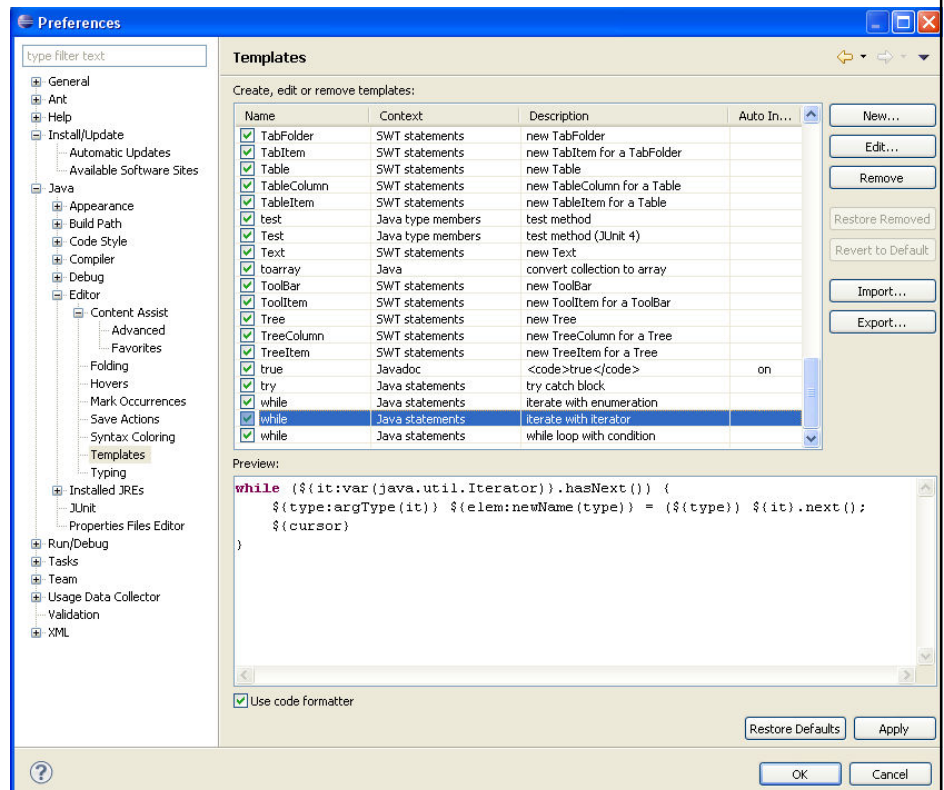
Plugins:

- Total 1005 plugins.
- EMF, JMF, PDT, C/C++, Subclipse, Mylyn, Android, Mobione
- Upgrading and Installing plugins:
From Help Menu



Templates:

- Templates can be set for all languages... but different way
- We will see for Java and PHP



Projects

- Create a project
- Open a project
- Look Inside .project , .classpath, .settings (project)
- Look Inside .metadata (workspace)
- Server applications... PHP project



Find Help

- IRC : [irc.freenode.net #eclipse](irc://irc.freenode.net/#eclipse)
- Wiki: <http://wiki.eclipse.org/>
- Blog: <http://www.planeteclipse.org/>
- Main site: <http://www.eclipse.org/>

How To Make \$\$ From Eclipse?

- **Two Ways:**
 - Write code using Eclipse
 - Like a lot of people do.
 - Write plugins for Eclipse
 - Eclipse supports commercial distributions.
 - You can write your own plugin and sell it as your product.

Q&A



Lecture on Demand Series

- Officially starts from winter.
- A number of topics will be offered. Students get to choose their topic and time.
- Commitment is required!!! It costs time and money!
- Minimum of 7 students will be required!
 - That is all for today!!!

