IBM Software Group

Essentials of Rational XDE
Getting Familiar with XDE

Rational. software

Objectives: Getting Familiar with XDE

- Define the relationship between:
  - Rational XDE, Eclipse, and the IBM WebSphere Studio Workbench
- Describe Rational XDE's:
  - Windows ("views")
  - Perspectives
- Demo of Rational XDE
- Exercise: Getting Familiar with Rational XDE

What is Rational XDE?

- XDE is an e**X**tended **D**evelopment **E**nvironment.
- It offers the developer a single tool for model and code development.
- It allows the user to quickly change between two disciplines.

Up Until Now, Developers …

- Thought they had to know how to:
  - Design and code
  - Switch between tools
  - Verify consistency between code and model
- Found it difficult to start with a “blank slate” on every new project

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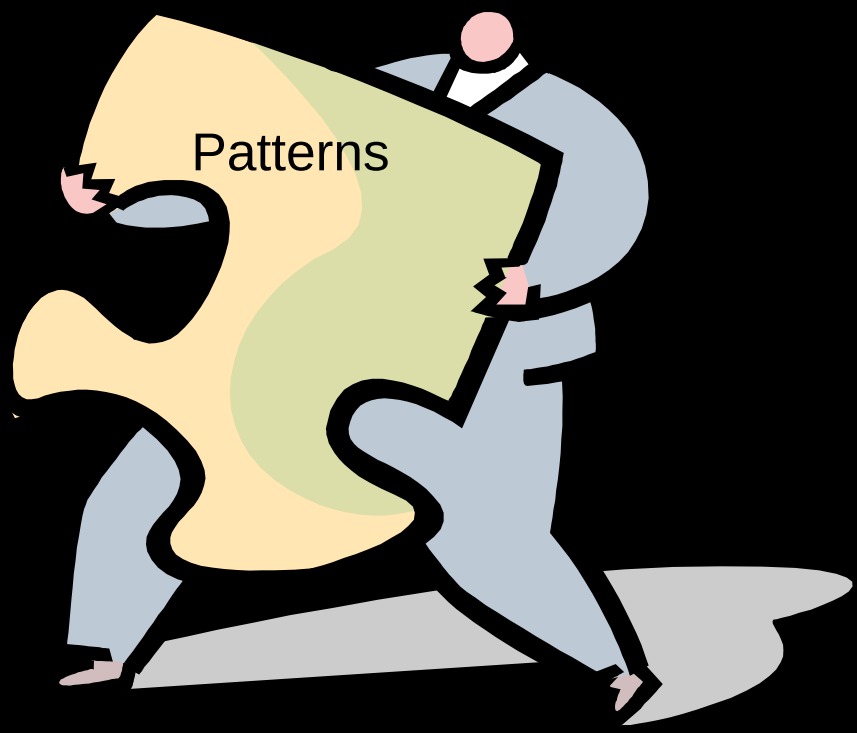
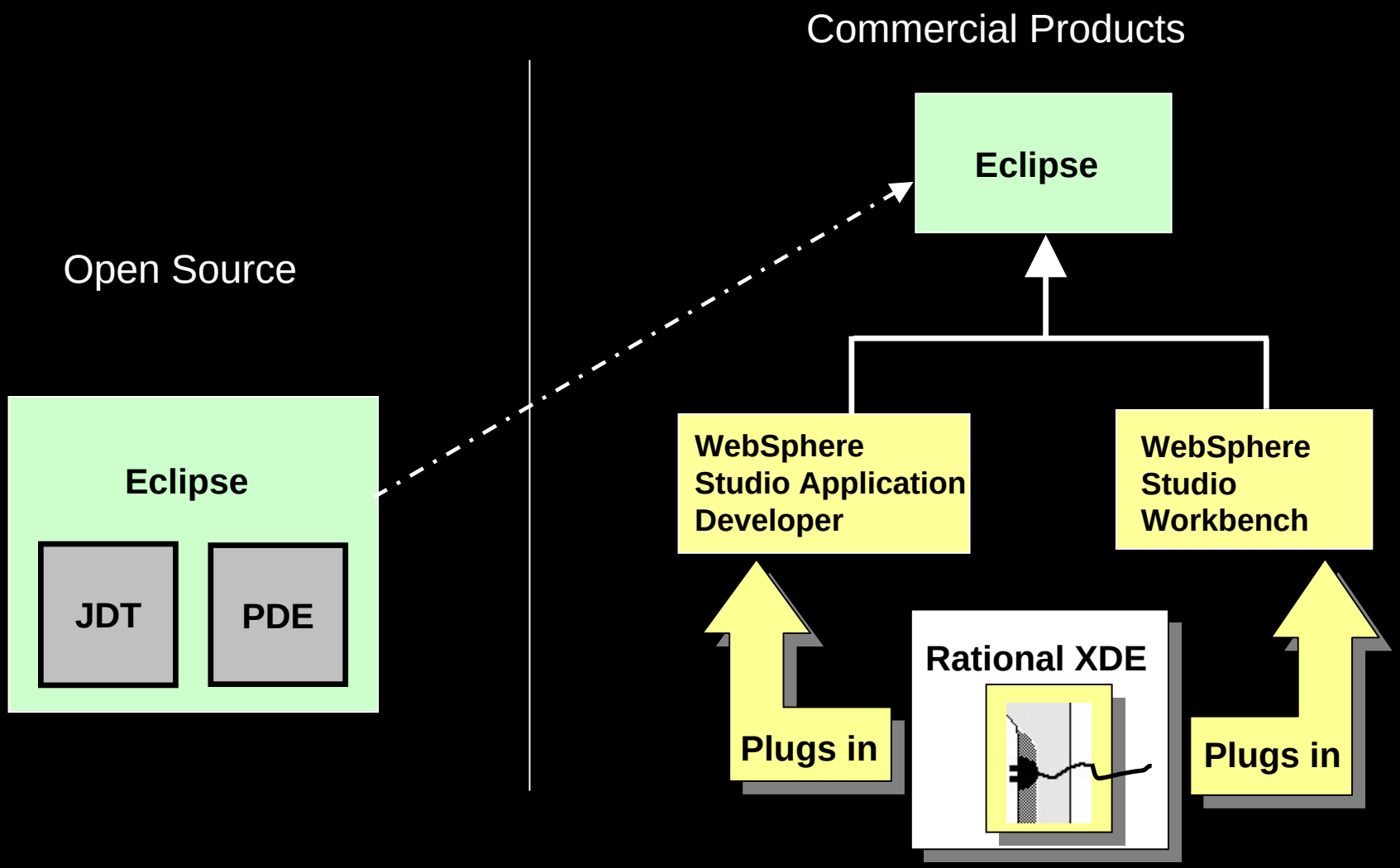
Up Until Now, the Architect …

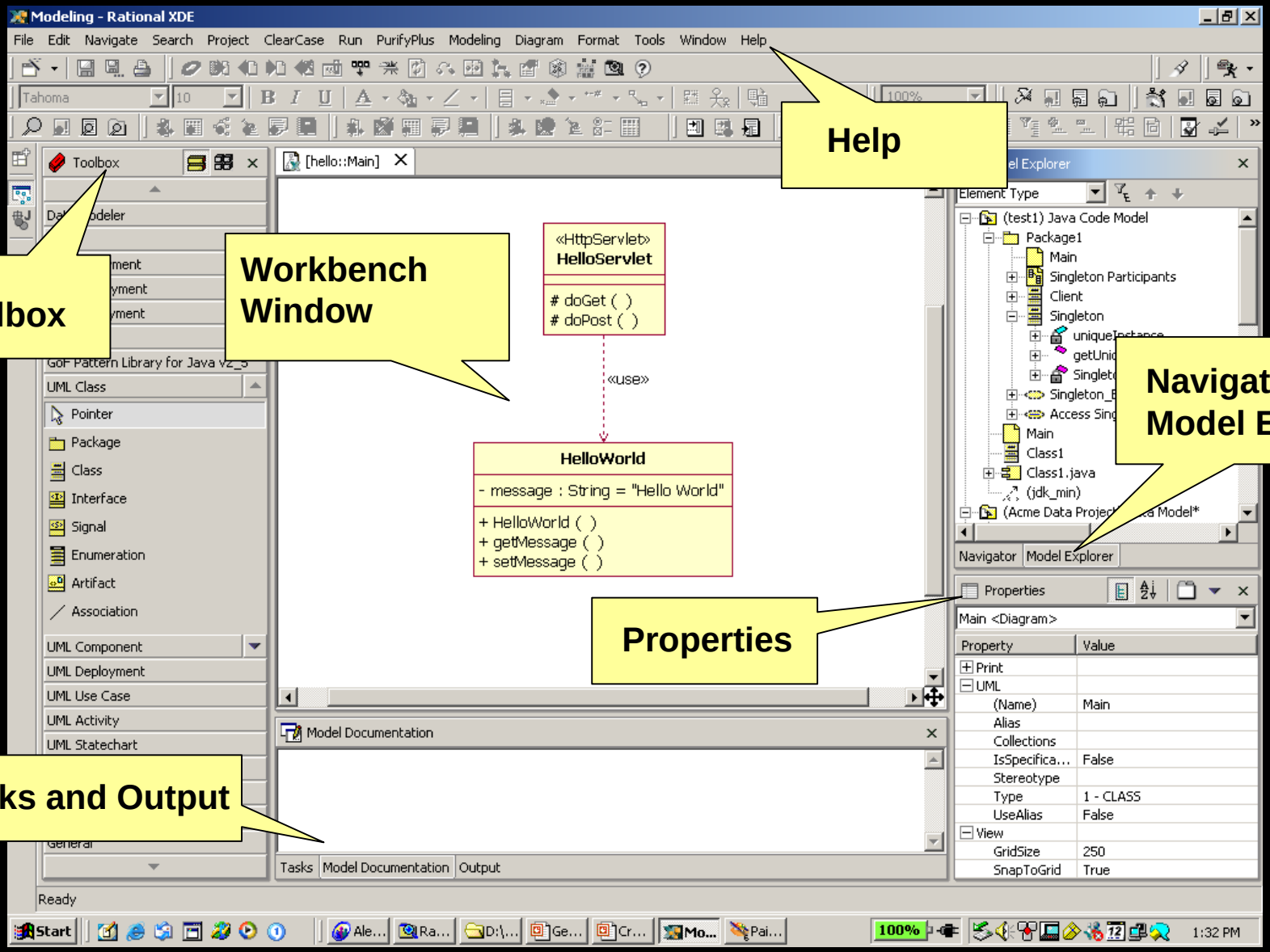
- Wondered how do I:
  - Bring proven patterns into the project (GoF, J2EE, my own)?
  - Ensure that patterns and templates are being used?
  - Reuse designs from my last project (not just the code)?



Eclipse, Workbench, and Rational XDE Developer



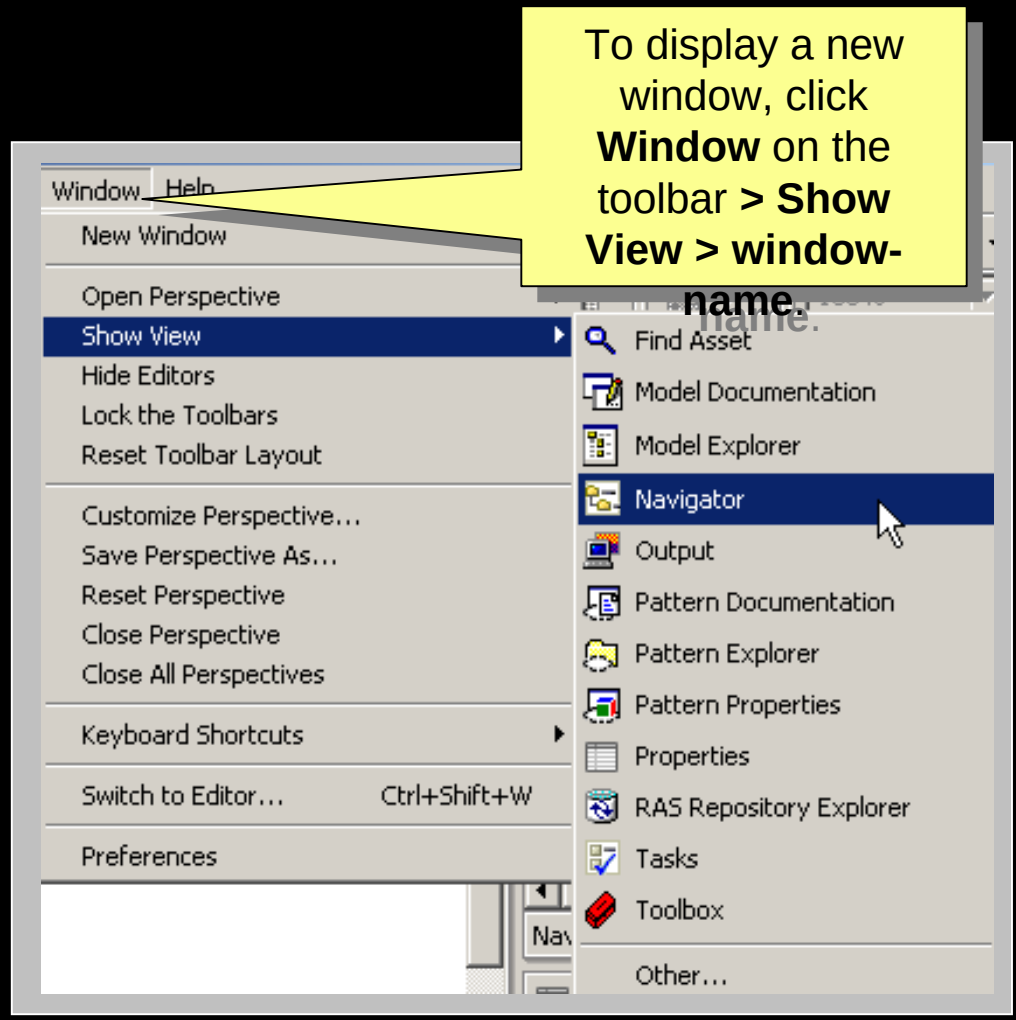
Welcome to Rational XDE



Rational XDE Windows

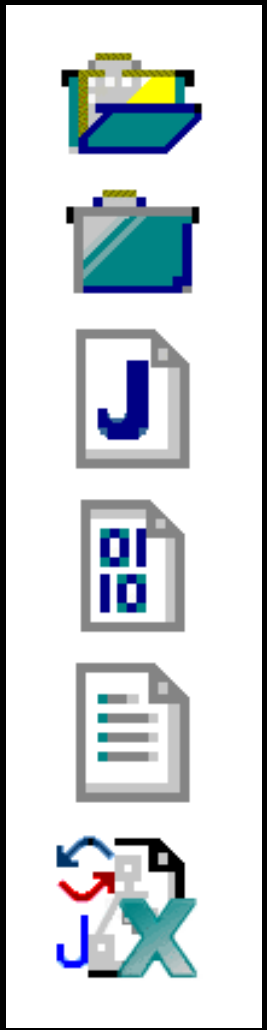
Primary views ("windows") in XDE:

- Navigator
- Model Explorer
- Workbench window
  - Diagram window
  - Java editor
- Tasks window
- Properties window
- Output window
- Toolbox
- Help



Navigator

- Some artifacts found in the Navigator:



Project (Open)

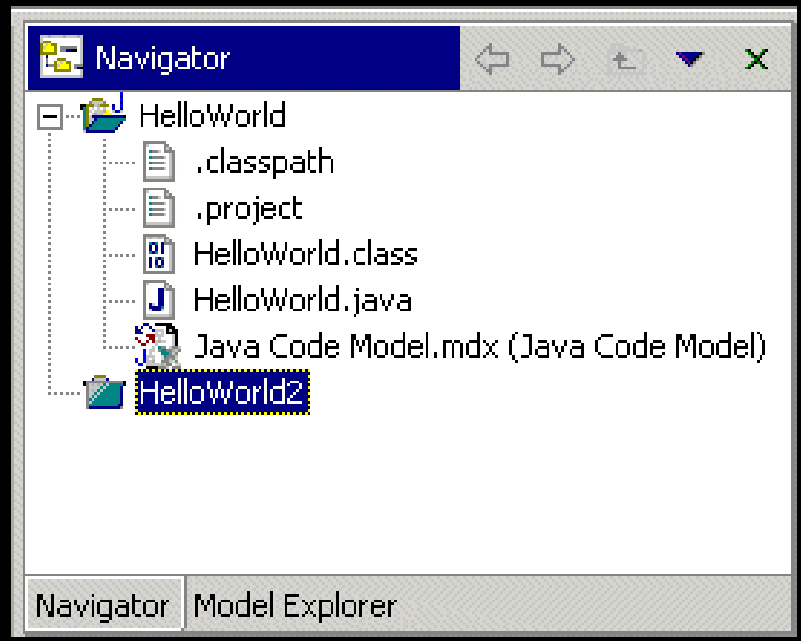
Project (Closed)

Java Source File

Java Class File

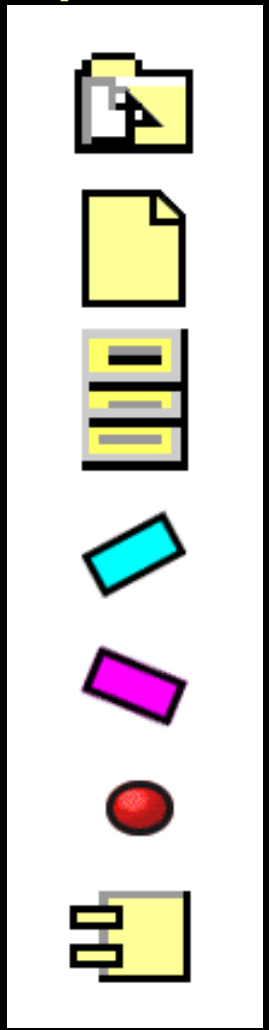
Text File

Java Code Model



Model Explorer

- Some model elements from the Model Explorer:



Model

Diagram

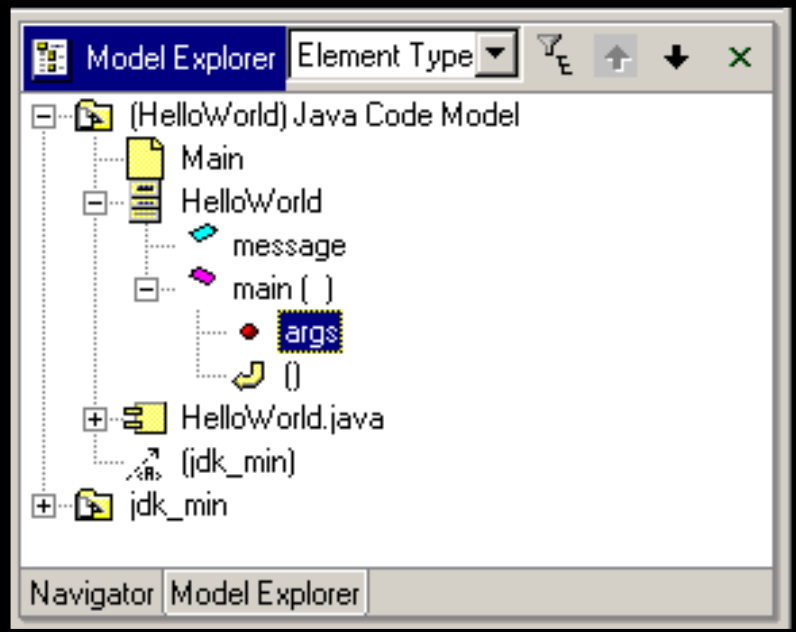
Class

Attribute

Operation

Parameter

Component



Model Explorer (continued)

- Additional Model Explorer features include:
  - Filtering
    - Shows certain model elements types, while hiding others
  - Sorting
    - Groups model elements by specific criteria

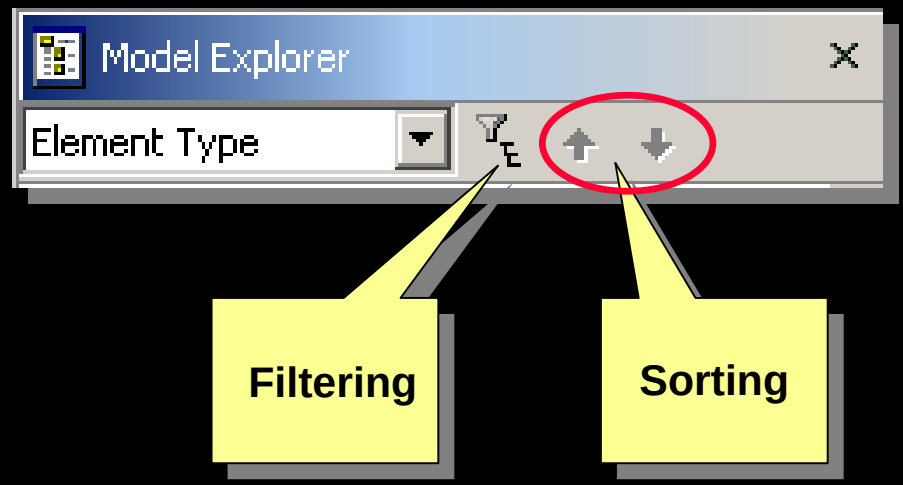
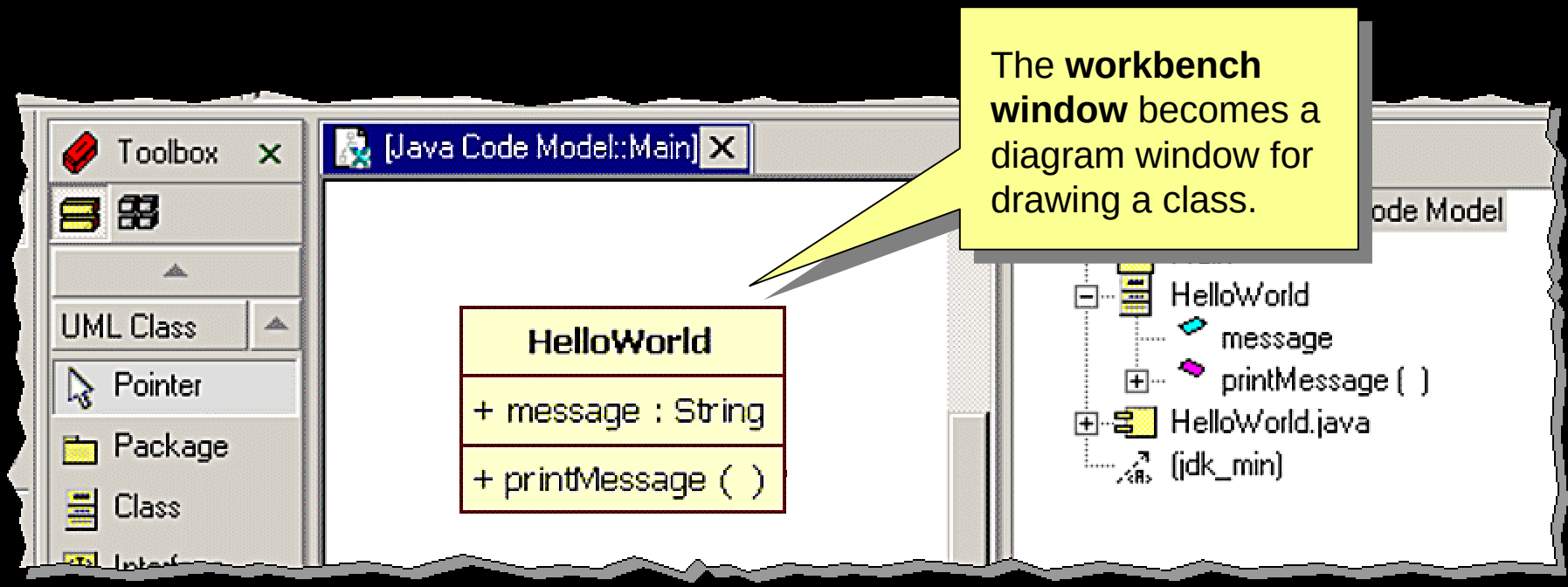


Diagram Window

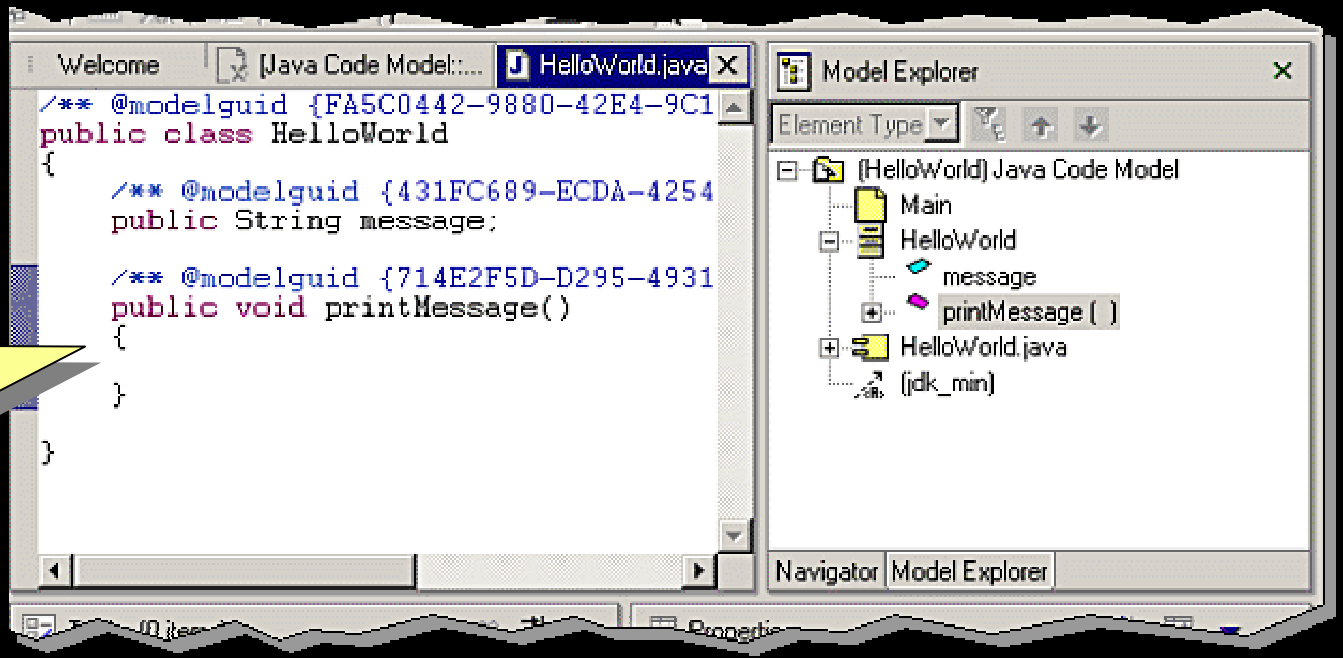
- Serves as a drawing surface
- Identifies the drawing title



Java Editor

- Syntax highlighting
- Content/code assistance
- Import assistance
- Integrated debugging

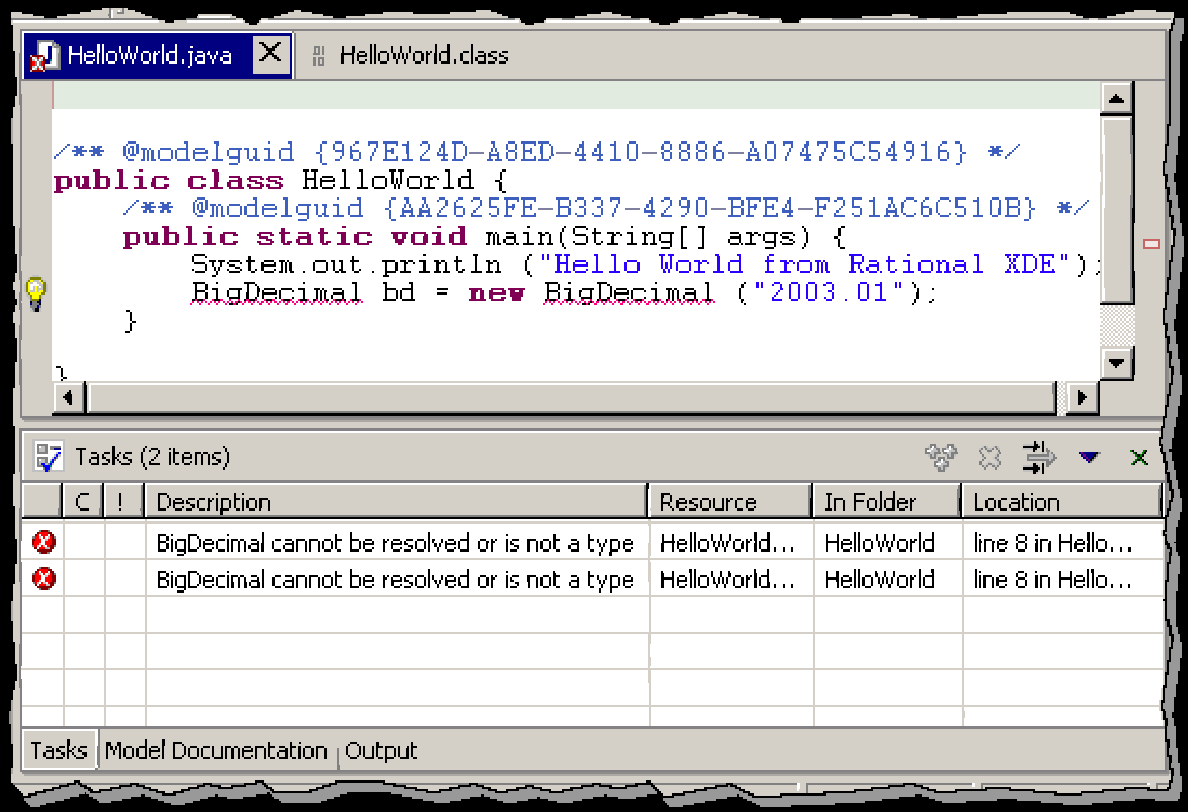
The **workbench window** can also serve as a code window.



Tasks Window

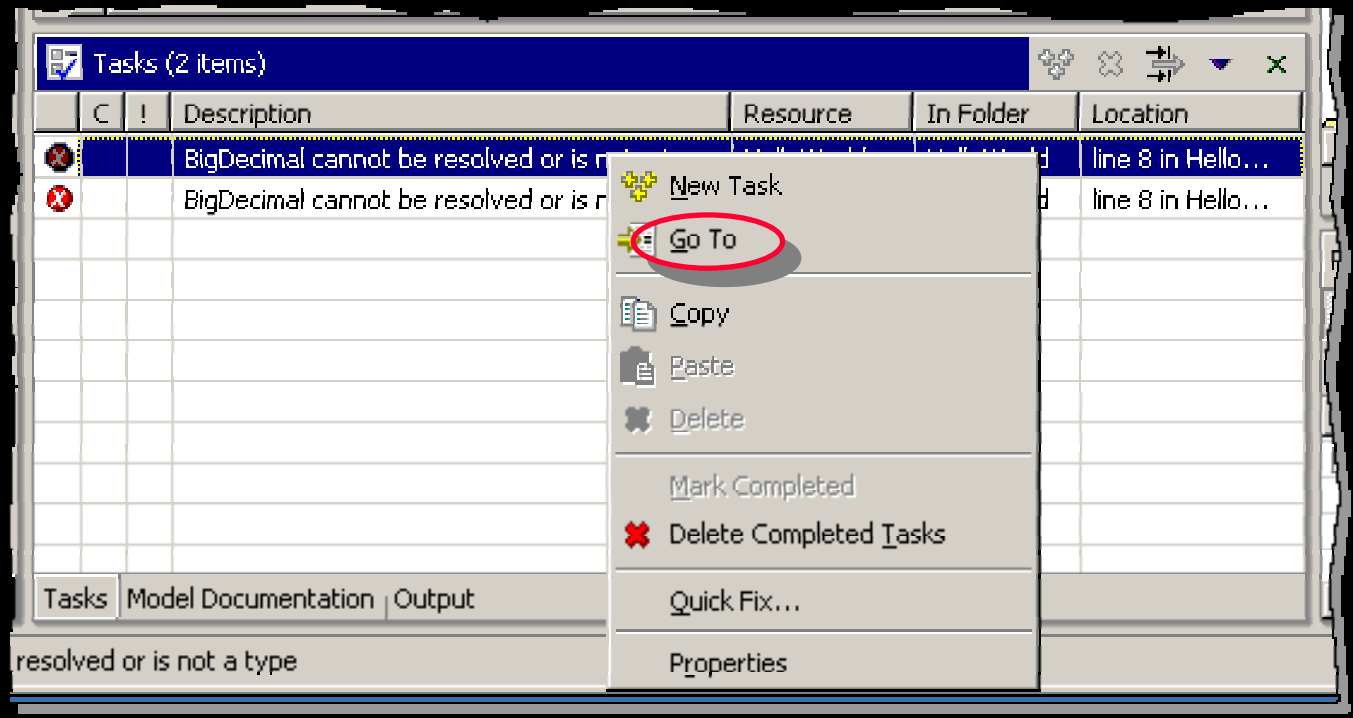
The **Tasks window** is used to:

- View errors and warnings
- Add tasks for managing development



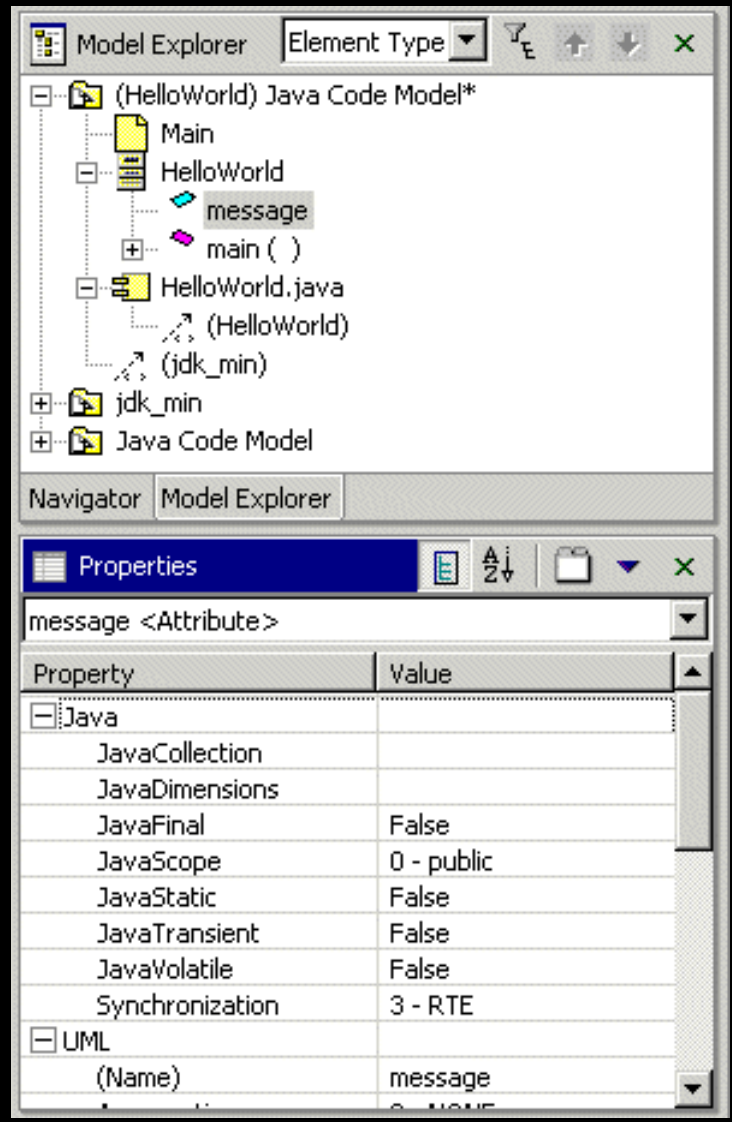
Tasks Window (continued)

- Use the Tasks window to resolve compiler errors



Properties Window

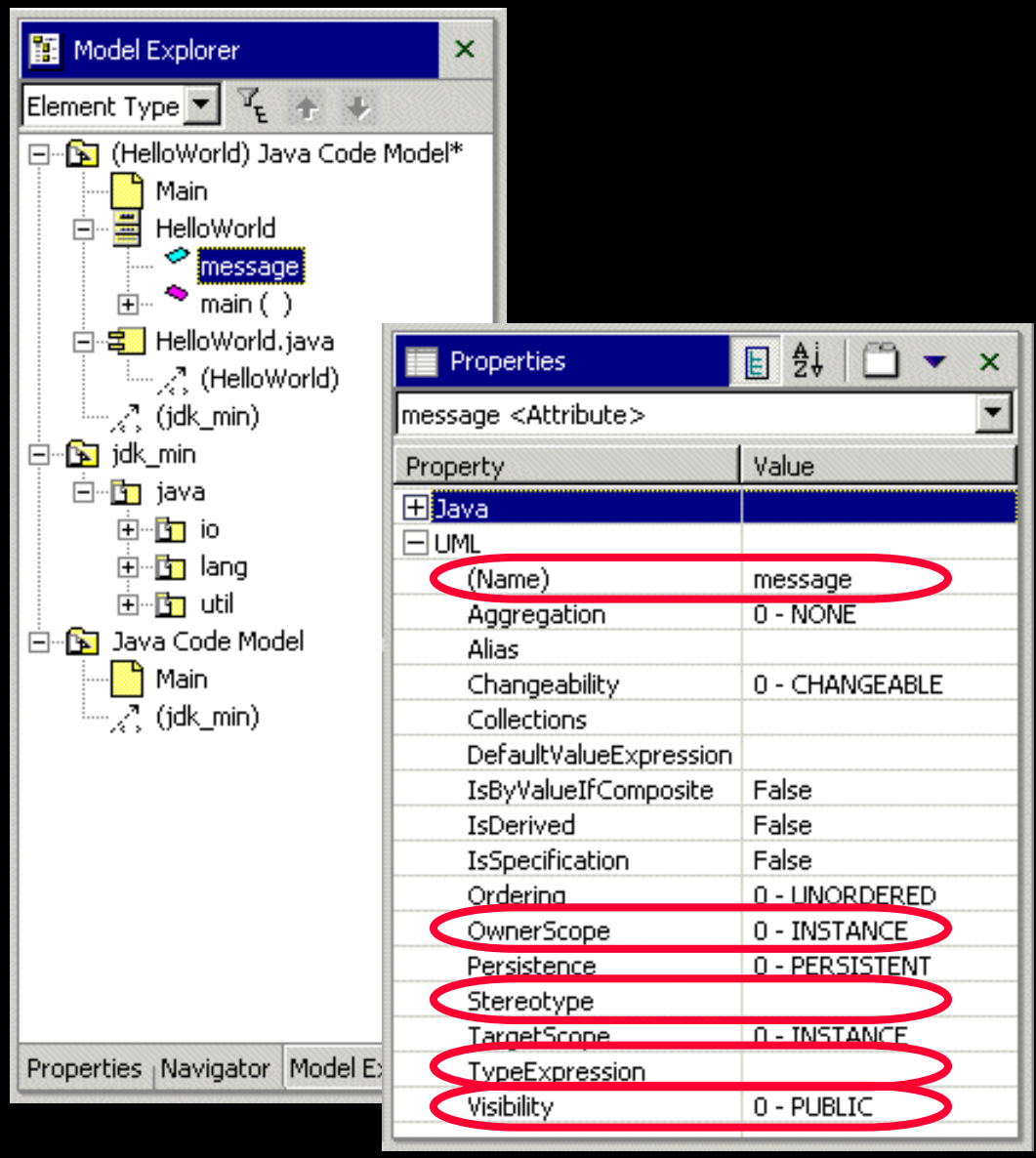
- **Properties** define characteristics of:
  - Diagrams
  - Model elements
  - Relationships
  - Shapes
  - Connectors
- Each type of element has its own properties



Properties Window (continued)

Common properties include:

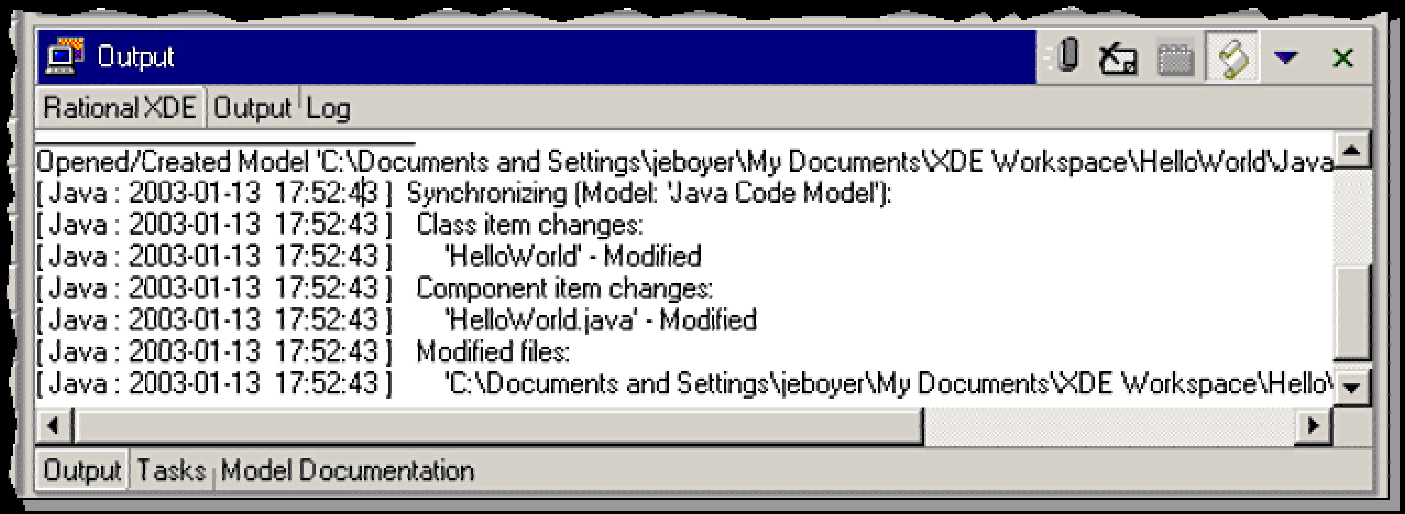
- Name
- OwnerScope
- Stereotype
- TypeExpression
- Visibility



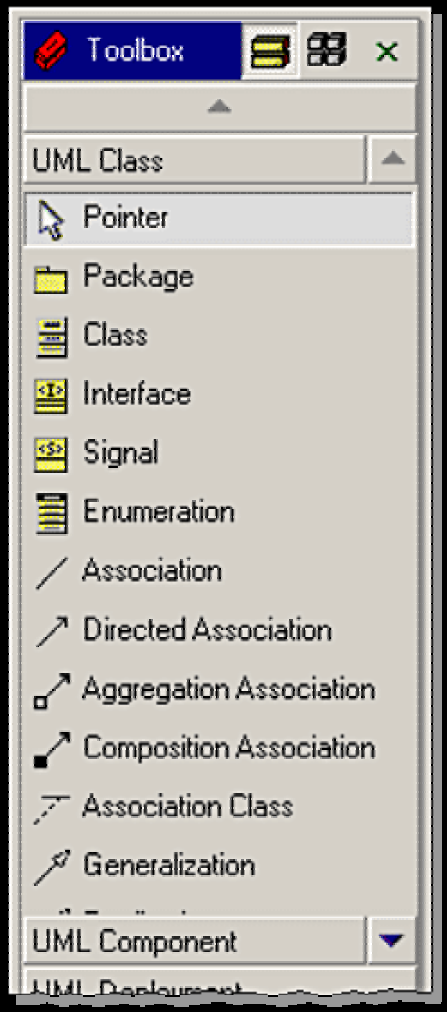
Output Window

The **Output window** displays messages about:

- The status of your models
- Model activities
- Related model elements



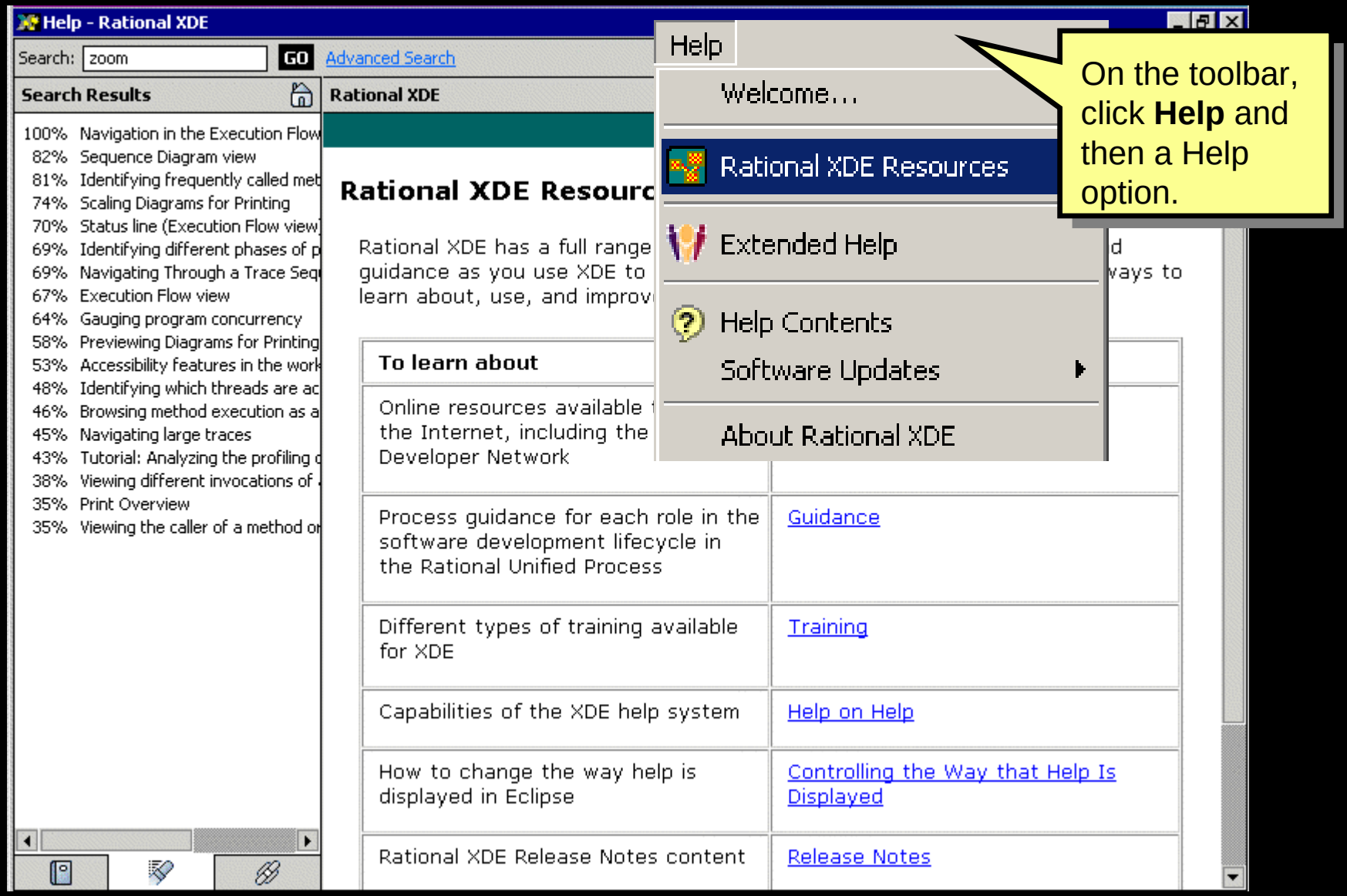
Toolbox



List View

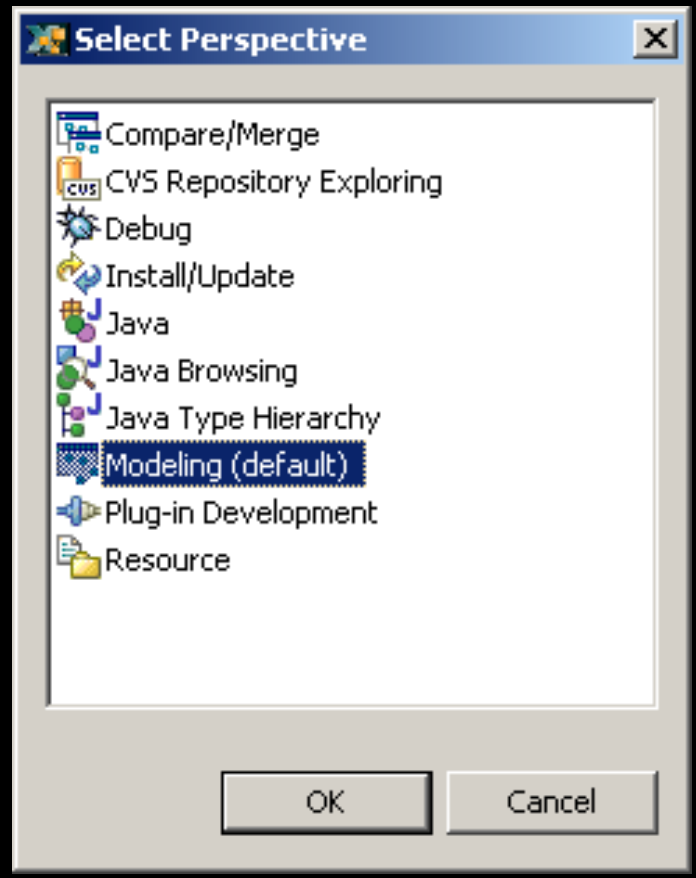
Icon View

Help Window

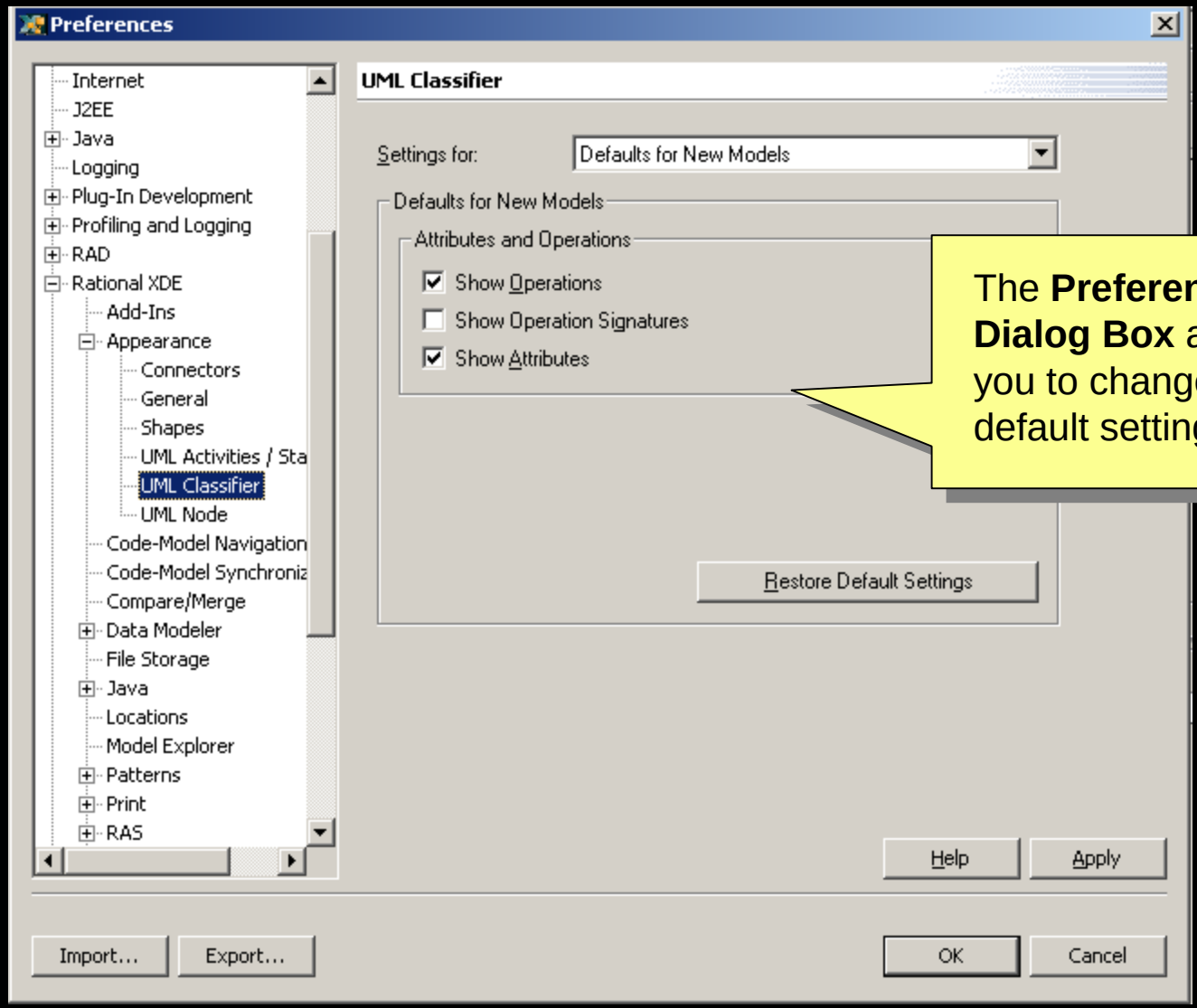

Help - Rational XDE
Search: zoom
GO
Advanced Search
Search Results
100% Navigation in the Execution Flow
82% Sequence Diagram view
81% Identifying frequently called met
74% Scaling Diagrams for Printing
70% Status line (Execution Flow view)
69% Identifying different phases of p
69% Navigating Through a Trace Seq
67% Execution Flow view
64% Gauging program concurrency
58% Previewing Diagrams for Printing
53% Accessibility features in the work
48% Identifying which threads are ac
46% Browsing method execution as a
45% Navigating large traces
43% Tutorial: Analyzing the profiling
38% Viewing different invocations of
35% Print Overview
35% Viewing the caller of a method or
Rational XDE
Rational XDE Resourc
Rational XDE has a full range
guidance as you use XDE to
learn about, use, and improv
d
ways to
To learn about
Online resources available
the Internet, including the
Developer Network
Process guidance for each role in the software development lifecycle in the Rational Unified Process
Guidance
Different types of training available for XDE
Training
Capabilities of the XDE help system
Help on Help
How to change the way help is displayed in Eclipse
Controlling the Way that Help Is Displayed
Rational XDE Release Notes content
Release Notes
Help
Welcome...
Rational XDE Resources
Extended Help
Help Contents
Software Updates
About Rational XDE
On the toolbar, click Help and then a Help option.

Perspectives

- A **perspective** is a predefined set of windows in the main development window
- Perspectives can be customized



Preferences Dialog Box



The **Preferences Dialog Box** allows you to change the default settings.

Demo: Rational XDE Windows

The instructor will now show you the Rational XDE:

- Navigator
- Model Explorer
- Java editor
- Tasks window
- Properties window
- Output window
- Diagram window
- Toolbox

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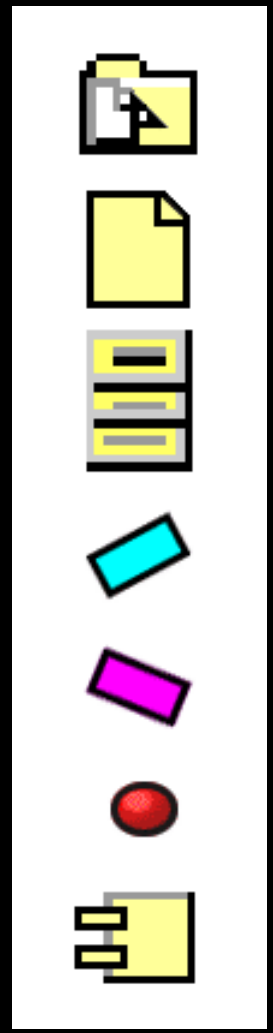
Exercise: Getting Familiar with XDE

- Match the model element names with the graphics that appear in Model Explorer:
  - Component
  - Class
  - Operation
  - Model
  - Parameter
  - Diagram
  - Attribute



Summary

- XDE is built on WebSphere Studio Workbench.
- Eclipse supports the construction of integrated tools for application development.
- The Navigator provides a hierarchical view of projects and their XDE resources.
- The Model Explorer displays all of the UML elements, including packages, classes, interfaces, and diagrams.