

IBM WebSphere Software

IBM WebSphere Development Studio Client for iSeries Workbench Basics:

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Agenda

- ■ Eclipse, workbench history, & IBM
 - Workbench basics
 - Components
 - Online help
 - Applying updates



The Challenge

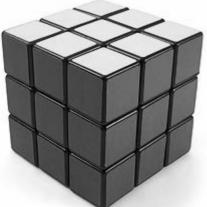
- Tools from different companies do not work well together
- Developers had [and still do!] better things to do than integrate tools
- Tool vendors had [and still do!] better things to do than reinvent the wheel
- No one vendor could do it all





The Solution

- Eclipse project originally created by OTI and IBM
- Framework on which a variety of tools can be built
 - Wide range of operating systems: Windows, Linux, Unix
- Extensible, seamless tool integration new tools easily added by writing plug-ins
- Language independent
- Attracted a community of tool developers
 - Now over 100 active vendor participants
- Effort transitioned into open source project
 - IBM donated initial Eclipse code base

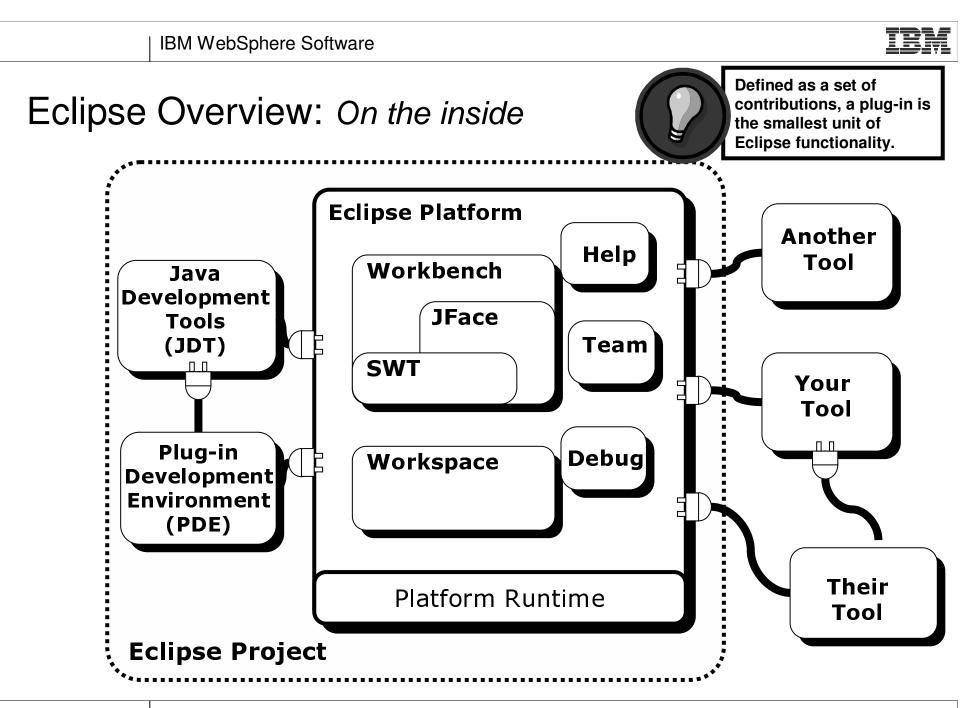


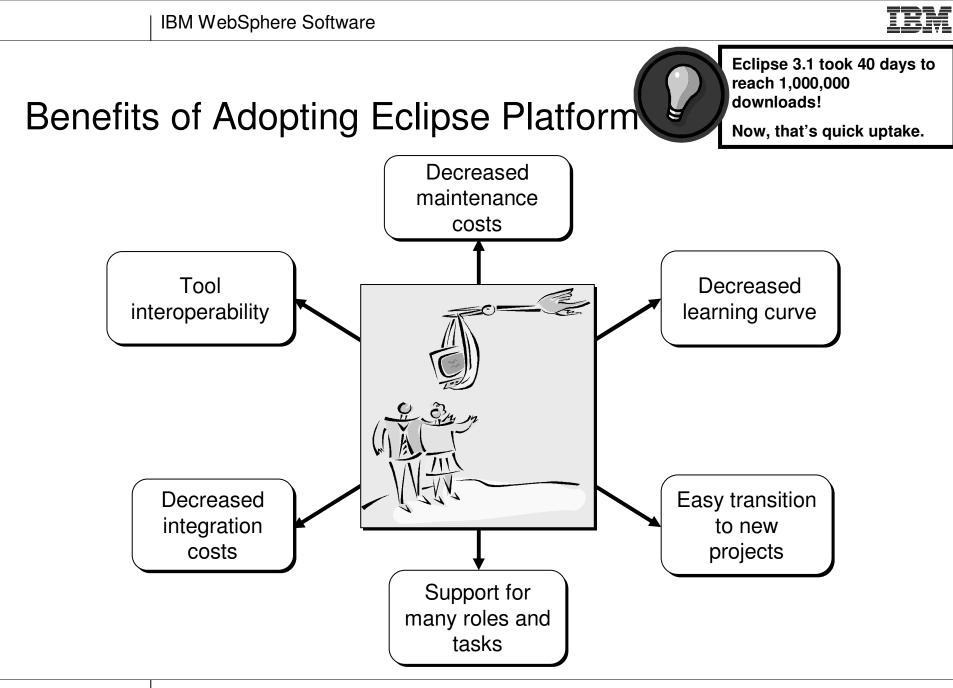


Eclipse Overview: On the outside



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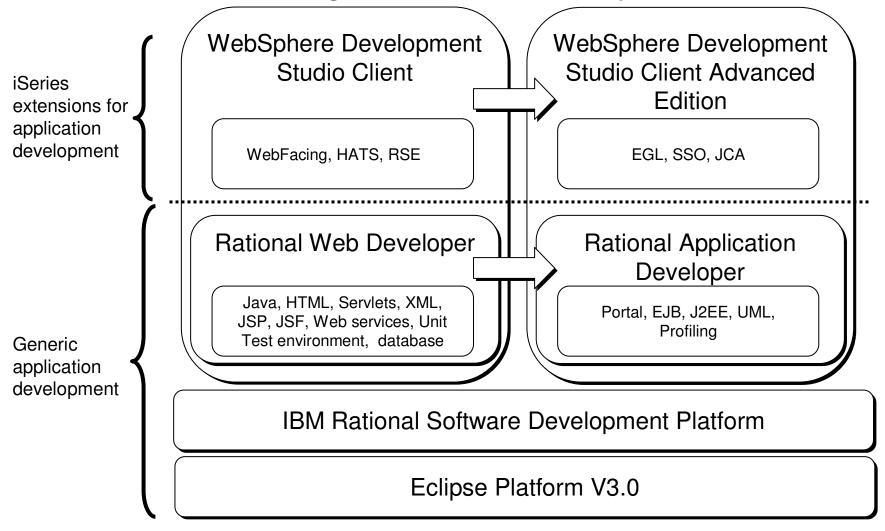


So, what's IBM got to do with Eclipse?

- IBM is a founding member of Eclipse
- Actively participates on Eclipse.org board of stewards and its working subcommittees
- IBM builds on Eclipse V3.0 for many products:
 - IBM Rational Software Development Platform
 - Rational Software Architect (RSA)
 - Rational Application Developer (RAD)
 - Rational Web Developer (RWD)
 - WebSphere Development Studio Client for iSeries



This is what IBM's got to do with Eclipse: *Packaging*





Who's on Board?

- Wide range of software vendors on Eclipse board
- Represent various development tool markets





Next...

Eclipse, workbench history, & IBM

Berkbench basics

- Components
- Online help
- Applying updates

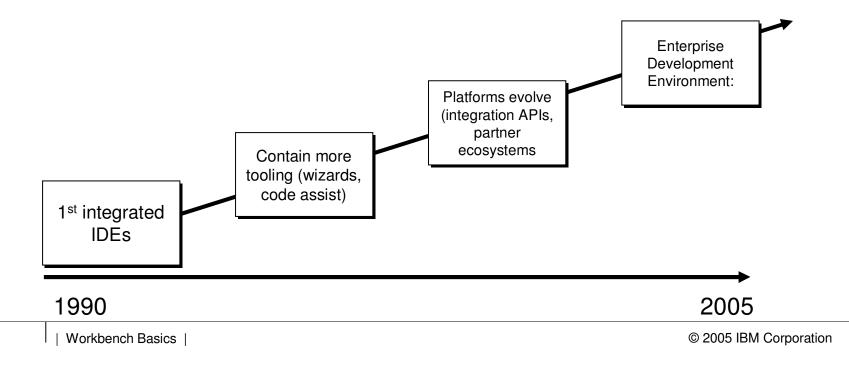


What's an IDE?



IT Synonyms: Often when people refer to the IDE they often call it a "workbench". These two terms are used interchangeably.

- Integrated Development Environment (IDE) is a set of tools that developers work with every day to construct and maintain software
- Evolved dramatically in the past few years
- Eclipse is the first IDE that offers an enterprise development environment for non-Microsoft technologies





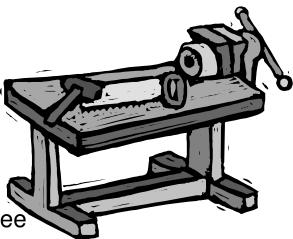
IBM Rational Software Development Platform

- IBM branded IDE
- Based on a 4-pronged infrastructure: Eclipse, Eclipse Modeling Framework (EMF), MDD platform, & standard modeling approaches (e.g. UML)
- Includes products from all IBM Software Group brands (Rational, WebSphere, Tivoli, DB2 and Lotus)
 - Advantage of unifying all IBM Software Group development tools within a single platform
- Open and modular workbench
 - Can purchase and adopt it in parts
- Spans all capabilities of software development cycle
 - requirements & analysis \rightarrow deployment management



Workbench component

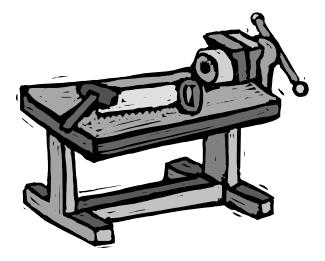
- Workbench is the user interface
- Implemented by the workbench UI plug-in
- Plug-in defines and manages all object that you see
 - E.g. menu and toolbars, dialogs, wizards
- UI paradigm centered around
 - Perspectives
 - Views
 - Editors
- Each UI element has a defined role
 - Editors work on resources in the workspace
 - Views share information about their defined 'input'
 - Perspectives organize views and the editor 'space' to support defined tasks





Workbench responsibilities

- Manages windows and perspectives
- Eclipse Platform creates menu and tool bars
 - Labels and icons listed in plug-in manifest
 - Contributing plug-ins not activated
- Eclipse Platform creates views and editors
 - Instantiated only as needed
- Scalable to large numbers of installed tools





Workbench: Overview

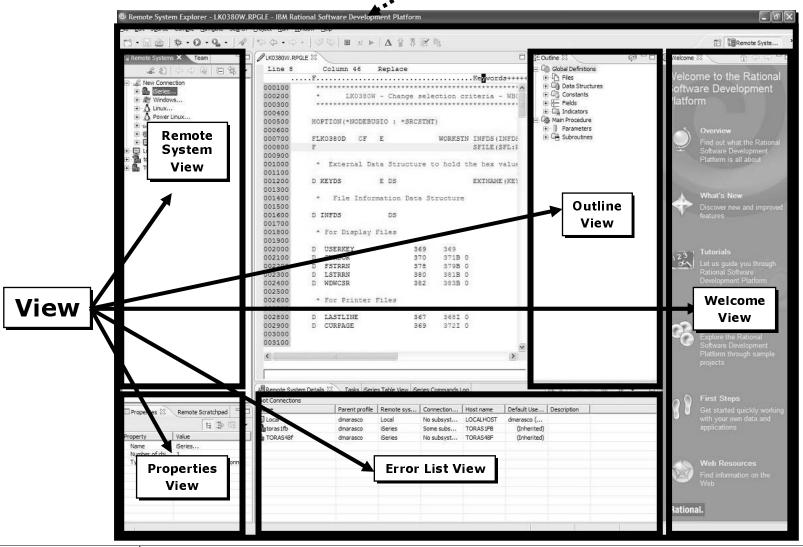
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Perspective

Workbench Basics



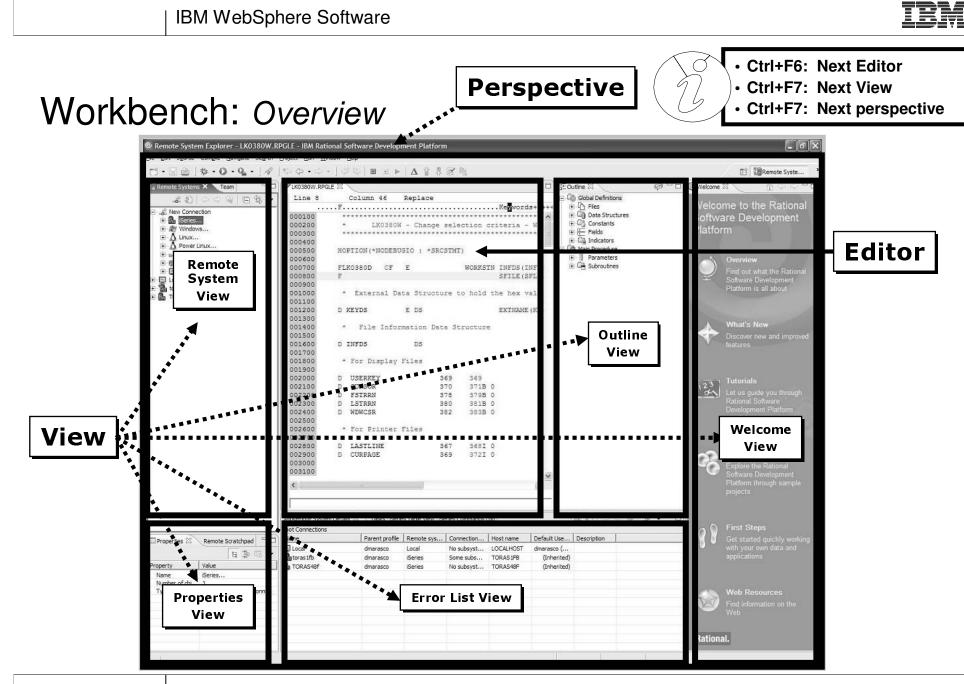
Workbench: Overview



Perspective

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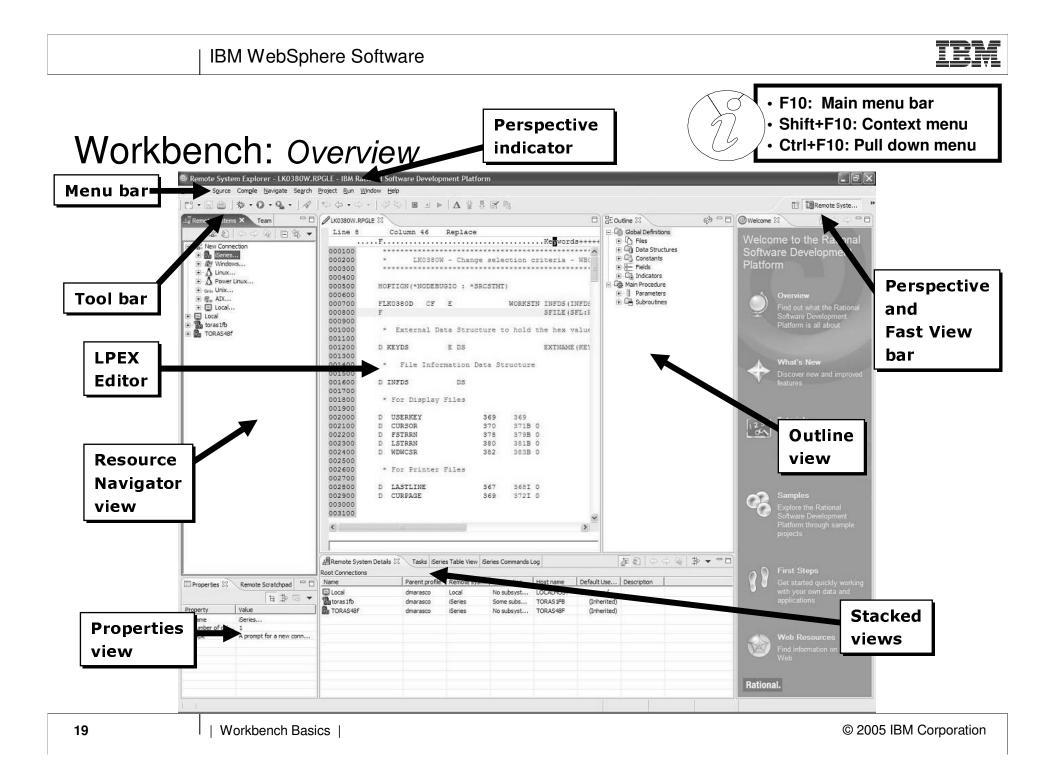
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Workbench Basics

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Et al -





Next...

- Eclipse, workbench history, & IBM
- Workbench basics

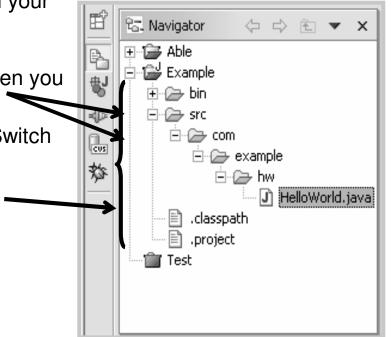
Components

- Online help
- Applying updates



Workspace component

- Local directory where the workbench stores all your projects, files, folders
- Location is set in the dialog that first opens when you start the Workbench
 - Can modify location by selecting File > Switch Workspace.... (Eclipse V3.0)
- Workspace holds 1 or more top-level projects
 - Projects map to directories in file system
- {Files, Folders, Projects} termed resources
- Resources are displayed in a tree structure of folders and files



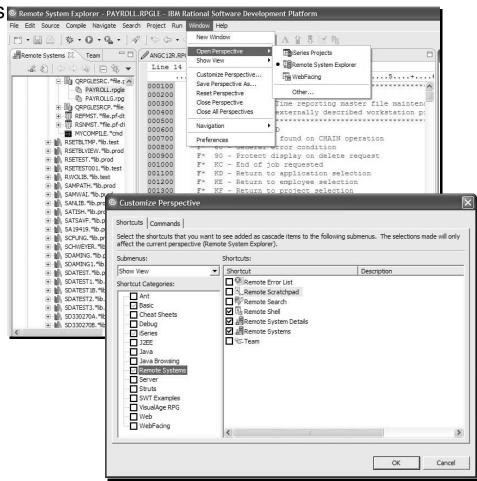


Each preference dialog has a Restore Defaults button. Click this button, to restores the

default settings.

Perspectives

- Provides a set of functionality aimed at accomplishing a specific type of task, or working with a specific type of resource
 - e.g. RSE perspective is for managing and working with remote file system objects
- Name of the active perspective is shown in the title of the window
- Can open, customize, reset, save, and close perspectives
 - Window menu

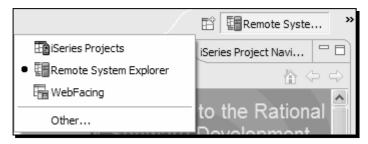


Switching perspectives

- There are two ways to open another perspective:
 - Click the Open a perspective icon in the top right corner of the Workbench working area and select the appropriate perspective from the list
 - 2. Select Window > Open Perspective.
- In either case, there is also an Other... option



Perspectives require memory, so it's good practice to close perspectives when not being used to improve performance!



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Tailor made perspectives...

- Flexibility of the IDE allows you to open, customize, reset, save, and close perspectives
 - Window > Customize Perspective....
- 1. Customize
 - Add, close, move, and resize views
 - Window > Show View and select the view you would like to add to the currently open perspective
- 2. Move
 - Move a view to another pane by using drag and drop
 - Views are stacked > use the tabs at the top of the view to switch between them
 - Select a view's title bar, drag the view, and drop it on top of another view

3. Drag

- While you drag the view, the mouse cursor changes into a drop cursor
- Drop cursor indicates what will happen when you release the view you are dragging
- In each case, the area that will be filled with the dragged view is highlighted with a rectangular outline.
 - E.g. \rightarrow = The view will dock to the right of the view under the cursor.



... Tailor made perspectives



Saving customized perspectives come in handy in situations where a development is being shared between several developers.

4. Fast View

- Appears as a button in 3 docked locations in the IDE [left, bottom (default) and right]
- Click the button to toggle whether or not the view is displayed on top of the other views in the perspective.

5. Maximize/minimize a view

- Maximize a view to fill the whole working area of the Workbench
 - Double-click the title bar of the view, press Ctrl+M, or click the Maximize icon
- Minimize a view so that only the tab is visible
 - Click the minimize button in the toolbar of a view

6. Save

- Save customizations as your own perspective
 - Window > Save Perspective As....

7. Restore

- Restore the currently opened perspective to its original layout
 - Select Window > Reset Perspective.





 Ctrl+O: Opens the outline view for the currently selected type

Views

- Views provide information on an object
- Support editors and provide alternative presentations or navigations of the information in the Workbench
 - Outline view summarizes editor content
- Views augment other views
 - Properties view describes selection in outline view
- Access from Window menu
 - Window > Show view
- WDSC standard views include:
 - Remote System Explorer, Outline, Properties, Error List

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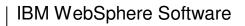
Views: Outline

- Great resource when you want to edit ILE RPG, COBOL, or DDS source
 - View is also available for Java
- Displays a structural outline of items defined in the file currently open in the editor
 - Icons are provided to indicate the type of element in the source, such as a record (DDS), Fields (ILE RPG)
- Clicking an item in the outline will position you in the editor view at the line where that structure element is defined
- Uses:
 - 1. Check definitions in the Outline view instead of jumping back and forth in the source between the calculations and the definitions
 - 2. If you notice that a definition is incorrect, click the definition in the outline view to quickly jump to the appropriate place in your source, without having to search for the definition.
 - 3. Quickly view the return and resolved values listed beside your procedure prototypes



• Periodically refresh your source while using the Outline view by clicking the refresh button at the top of the view.

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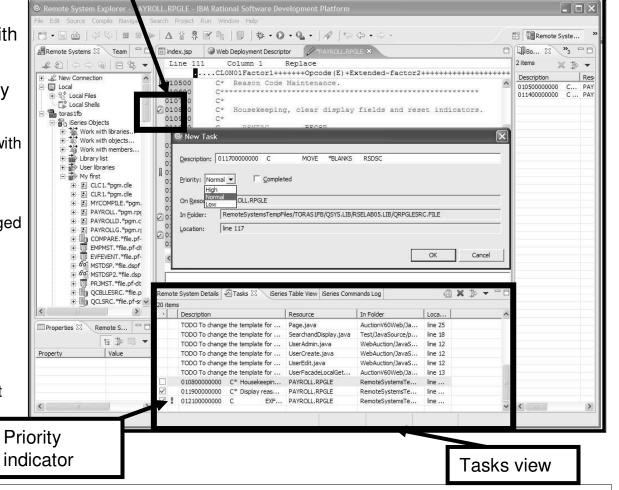
Views: Tasks

- Displays system-generated errors, warnings, or information associated with a resource
- Can also display manually added tasks
 - Optionally associated with a resource
- Ability to filter tasks:
 - See only problems logged by the Workbench,
 - Tasks that you have logged as reminders to yourself
 - According to which resource or group of resources they are associated with, by text string within the Description field, by problem severity etc.

Task marker

 Right-click in the gray border at the left of the editor area, beside the line of text or source code

Select "Add Task"



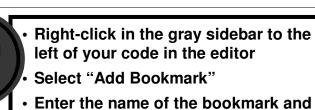
Workbench Basics

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IBM WebSphere Software

- Views: Bookmark
 - Bookmarks are another simple way to navigate to resources that you frequently use
 - Displays all bookmarks in the Workbench
 - created bookmark is indicated by the symbol in the marker bar
 - Double-click the bookmark in the view to open the file and navigate to the line where the bookmark has been created

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click OK.





Views: Navigator

- Navigator view provides a hierarchical view of the resources in the Workbench
- Project type is noted by the icon
- From Navigator you can open files for editing or select resources for operations such as exporting
 - Right-click on any resource in the Navigator view to open a pop-up menu that allows you to perform operations
 - e.g. copying, moving, creating new resources, comparing resources with each other, or performing team operations

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Projects



Unless otherwise specified, projects are created in the workspace directory. When projects are deleted, you have the choice of also deleting the contents or not.

- Top level of organization of your resources in the workbench
 - Contains files and folders
- Used for building, version management, sharing, and organizing resources
- May contain session and persistent properties, settings for environmental variables, and references to other projects
- You can create different kinds of projects with different structures
 - e.g. Java, Web, WebFacing, iSeries
- The type of project specifies its properties
- To create a project:
 - Select File > New > Project....



iSeries projects



You can upload all local source physical files and members created or imported into an iSeries project from the Remote Actions menu.

- An iSeries project represents the starting point for any development
- Two required properties (or attributes):
 - **1. An iSeries connection:** You must specify an iSeries connection that you want to associate with the iSeries project
 - 2. An associated library: The associated library is a single remote library on the iSeries server that contains the build objects for a project
- iSeries Projects perspective focuses on disconnected development
- Projects are local containers for local source
 - Edit these resources locally
 - Push these changes to an iSeries server to submit a build of your project

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Ctrl+F6: Next Editor Ctrl+F5: Refresh Ctrl+Shift+V: Verify Ctrl+Shift+C: Compile

Editors

- Editors appear in workbench editor area
- Contribute actions to workbench menu and tool bars
- Editor is dependent on type of file being edited
 - Open with >
- Open editors are stacked and can be activated by clicking the tab
- Name of the file appears in the tab of the editor
- An asterisk (*) at the left side of the tab this indicates that the editor has unsaved changes.

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E SDAMING. *lib.prod Add To iSeries Project	100 F	
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E M SDATEST, "lib.prod	2300 F*	
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🕀 🐘 SD330270A. *lib.prod		
⊡ 🕼 SD330270B.*lib.prod		
🗄 🖬 SEPTKWDS. *lib.prod 🔛 🔛		



Each preference dialog has a "Restore Defaults" button. Click this button

to restores the default

settings.

Preferences

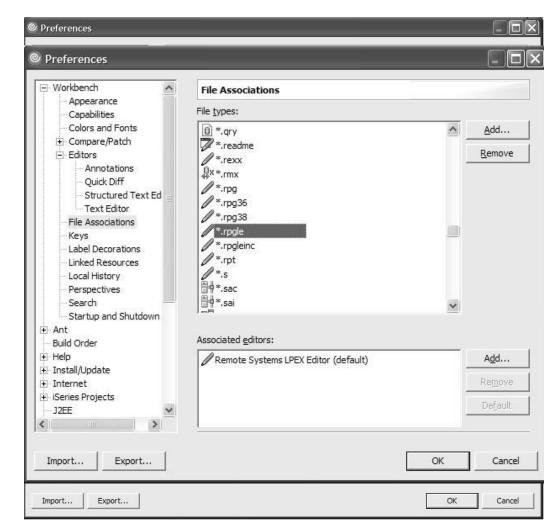
- Preference and properties dialogs provide stored values for workbench components
 - workbench, editors, debug,
- You can change the default settings to suit your tasks
- Accessed from Window > Preferences

Workbench	Appearance		
Appearance Capabilities	Editor tab positions		
Colors and Fonts			
E Compare/Patch	View tab positions		
Modeling Compare/			
File Associations	Perspective switcher positions		
Keys	C Left C Top Left		
Label Decorations	Current Presentation:		
Linked Resources	Default (current)		•
Perspectives	Current Theme:		
Search	Default (current)		+
Startup and Shutdown	IDerault (current)		-
- Ant - Build Order	Show text on the perspective bar		
- Help	Show traditional style tabs		
Install/Update			
Internet			
iSeries Projects			
Build and Compile			
Java			
LPEX Editor			
Remote Systems 🗸		Restore Defaults	Apply



(a few of my favorite) Workbench preferences

- 1. Keys
 - You can assign key sequences & strokes to many of the IDE commands [shortcuts]
- 2. Editors
 - Customize the appearance and colors of annotations, quick differences, & structured text editors
- 3. File Associations
 - Add or remove file types recognized by the Workbench
 - Associate editors with file types in the file types list





iSeries development preferences

- 1. iSeries Projects
 - Specify logging options for iSeries Projects
 Perspective for tracing and problem determination
- 2. Build & compile
 - Specify default build style for all new projects created

Build Order	RPG/400	
Help	Automatic syntax checking	
E-Install/Update		
iSeries Projects	Automatic uppercasing	
Build and Compile	Enter key behavior	
J2EE	Repeat previous specification type	
- Java	Repeat previous operation code (if on fixed	form (C-Specification)
- LPEX Editor		form e opechicationy
Remote Systems	Set C-Specification cursor position	
Communications	Position FACTOR1	
⊡ Debug Host Java	T they defined when	
File Cache	User defined tabs	
Files	H: Control	<u></u>
⊡ iSeries	H	
Cache		
- Command Executio	n n n n n n n	
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Job Subsystems		
LPEX Editor Parsers CL		
COBOL		
DDS		
- ILE RPG		
RPG/400 🗸	Death	ore Defaults Apply
	Rest	ore Defaults Apply



Capabilities

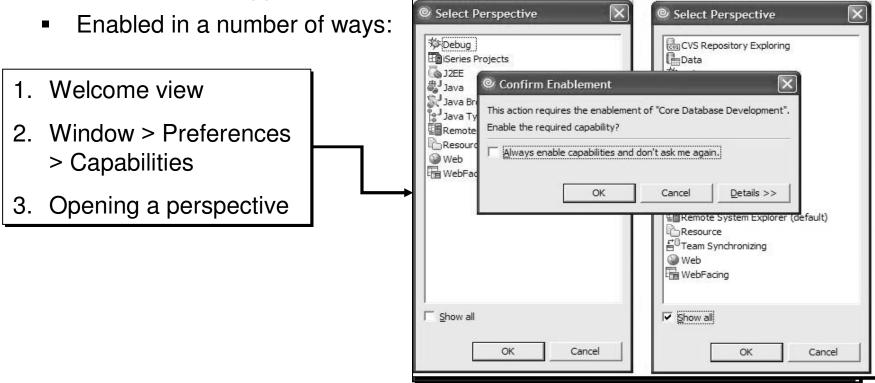


Capabilities not enabled will impact the context of the IDE such as help system, windows preferences, opening perspectives, and the file new menus.

Filtered slice of functionality, views, menus, and help based on task

- e.g. Java Developer, iSeries Developer

 The default setup does not enable a large proportion of the capabilities such as team support for CVS, <u>& Web Services development</u>





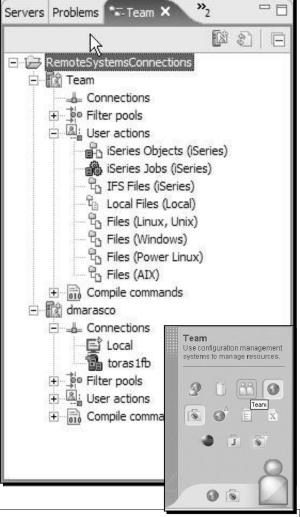
- User defined server commands that run against resources such as files and folders on your server
- Each user action has:
 - 1. A unique name
 - 2. A command (that might have substitution variables)
 - 3. Substitution variables that are replaced with information from the resource (such as its name) when the command is run
 - 4. An optional comment used to describe the action in more detail
 - 5. Various options to affect what happens when the command is run
 - e.g. Prompt first
 - 6. One or more file types that limit the action to specific types of remote resources
- Expand the connection containing the kinds of resources you want to act on, navigate to the subsystem that would contain those resources
 - Select Work with > User actions > Work With User Actions window

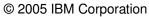




Team component

- Workbench provides tools to manage, share and synchronize resources
- Eclipse platform includes CVS repository provider
- Share the folders and files of a project
 - Each team member sends their changes to the repository, and receives changes that were made by a team member from the repository
- For iSeries, a single project is created for all the nonremote resources managed by RSE
- Profiles are stored in that project; everything belonging to a profile can be shared
- Profiles contain:
 - 1. Connections -- including various subsystem properties. User IDs and passwords are not shared.
 - 2. Filters, filter pools, and filters pool references
 - 3. User-defined actions
 - 4. Compile commands







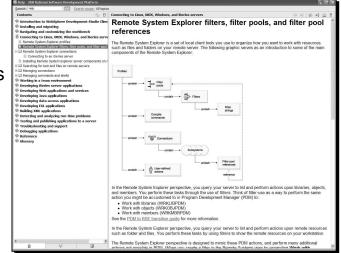
Next...

- Eclipse, workbench history, & IBM
- Workbench basics
- Components
- ● Online help
 - Applying updates



Help! The Information Center

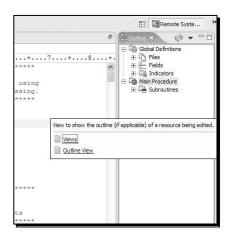
- Workbench provides a number of ways to provide help information
 - Both inline and online
- "Information Center" provides access to the documentation
 - Eclipse-based help system
- Able to browse, search, and print system documentation
- Organized into sets of information that are analogous to books
 - Includes a full text search engine for finding the information you need by keyword
- Able to browse and print help content
- Help mechanisms available to all plug-ins
 - All Eclipse based products including 3rd party tools can contribute
- Launch Information Center by:
 - 1. Selecting Help > Help Contents
 - 2. Pressing F1 [context sensitive help]





Help! Context Sensitive Help and Infopops

- A small window of help associated with a particular workbench component
- It displays context-sensitive help and links to related help topics for the component
- To use infopops:
 - 1. Bring focus to the interface widget in question [by clicking on it or using the Tab key
 - 2. Press F1





Help! Context Sensitive Help and Infopops

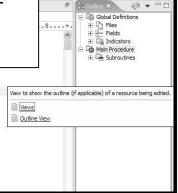
- A small window of help associated with a particular workbench component
- It displays context-sensitive help and links to related help topics for the compor Presentation to provide you all the basics you need
- To use

 To use
 Br
 to know about the WebSphere Development Studio
 Client workbench.

using the

😭 🖬 Remote Syste.

- Ta <u>WebFacing - Advanced Topics</u> 2. Pr
 - Introduction to IBM Web Tools and the iSeries





Help! Content Assist

- Provides a list of suggested completions for partially entered strings
- Available for ILE RPG, ILE COBOL, and C++, EGL and Java
- To use content assist:
 - 1. Open a file you want to edit
 - 2. From the Edit workbench menu, select Content Assist or press Ctrl+Space
 - Editor opens a list of valid code completions
 - 3. Double-click on a possible completion from the list

D ARRAY		ន	8	DIM(3)		
DIM(numeric-constant) The DIM keyword defines the number of elements in an array; a table; a prototyped parameter; or a return value on a prototype or procedure-interface definition.				mec DIM(NUMERIC-CONSTANT) mec DATFMT(DATE-FORMAT{DATE-SEPARATOR}) mec DESCEND mec DTAARA mec DTAARA mec DTAARA(DATA-AREA-NAME) mec DTAARA(*VAR:DATA-AREA-NAME)		
С			SETON			
OQSYSPRT	Т	LR		1 1		
0			INSTALL	21		
0				24 'OF'		
0				28 'THE'		



Help! Cheatsheets

- Special view that helps guide user through a series of complex tasks to achieve an overall goal
 - e.g. create a hello world Java application
- Implement a task scenario spanning multiple smaller tasks and tools used to create some application, object or code Includes actions and text

Launch from Help>Cheat Sheets

- •iSeries specific cheatsheets:
 - 1.Edit, compile and run your RPG or COBOL application
 - 2.Debugging a 5250 RPG or COBOL application

index.jsp	Web Deployment Descriptor	🖉 🕅 Cheat Sheets 🗙 🛛 🗄 🔻
Line 1	Column 1 Replace	Edit, compile, and run or COBOL applicati
000100	Teereeseeseeseeseeseeseeseeseeseeseeseese	✓ ± Introduction
000200	F* PROGRAM NAME - Pavroll	✓
000200	F* DESCRIPTION - Time reporting master file maintenance using	
000400	F* externally described workstation processing.	Configuring a connection to your iSeries server
000500	Ferrererererererererererererererererere	This step opens the New Connection wizard. In this wizard, enter IP address or hostname of your iSeries server, for example,
00600	F* INDICATORS USED	PROD400, and click Finish. The value you enter for your hostname
000700	F* 50 - No record found on CHAIN operation	filled into the Connection name field by default.
00800	F* 60 - General error condition	and the second second second second second
000900	F* 90 - Protect display on delete request	When you click Finish, the wizard automatically validates the name your Series server and connects you to the server so that you can
001000	F* KC - End of job requested	work on your iSeries applications.
001100	F* KD - Return to application selection	10 B
001200	F* KE - Return to employee selection	uh. 4
001300	F* KF - Return to project selection	E Editing your library list
001400	F* KG - Return to rode selection	Fuer
001500	F* LR - Last record	Subsy © New
001600	F*************************************	For et
01700	F* SUBROUTINES USED	filters Remote iSeries System Connection
001800	F* EDITSL - Edit application selection display (SELECT)	Expan Define connection information
01900	F* ACDESR - Edit action code for all maintenance requests	to see
02000	F*************************************	right-
002100	F* This program uses all externally described files. Files	Entry Ibrar: Parent profile: dmarasco
002200	F* used are - MSTDSP - maintenance display file	librar: Parent profile: dmarasco
02300	F* - EMPMST - employee master file	1
02400	F* - PRJMST - project master file F* - RSNMST - reason code master file	Opt Connection name:
02500	F* - K5NM51 - reason code master file	
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		+ Ver Description:
		+ Say
Remote Syst	em Details 🖄 Tasks Series Table View ISeries Commands Log 🔉 🗧 🗇 🌍 🏹 👘 🔫 🗖	



Help! Welcome view

- First page shown when the product is first started
- Provides information on a variety of getting started topics
- Information offered in different formats
 - Documentation
 - Tutorials
 - Samples
 - Wizards
- Maximized view within the Remote System Explorer perspective
- Double-click tab or click on arrow to minimize



MORE NO.

Tenant at indialse 20" a rol coffeed

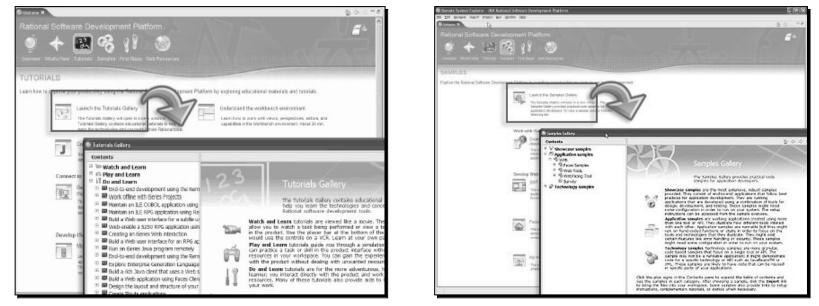
103.4120902...

107



Help! *Tutorials* & Samples

- Number of tutorials & samples ship with the workbench
- Based on a variety of topics for a variety of skill levels
 e.g. Create a connection [tutorial], WebFacing Order Entry [sample]
- Housed in "Tutorials Gallery" and "Samples Gallery"
 - 1. Help > Tutorials gallery, Samples gallery
 - 2. Welcome view > Tutorials, Samples





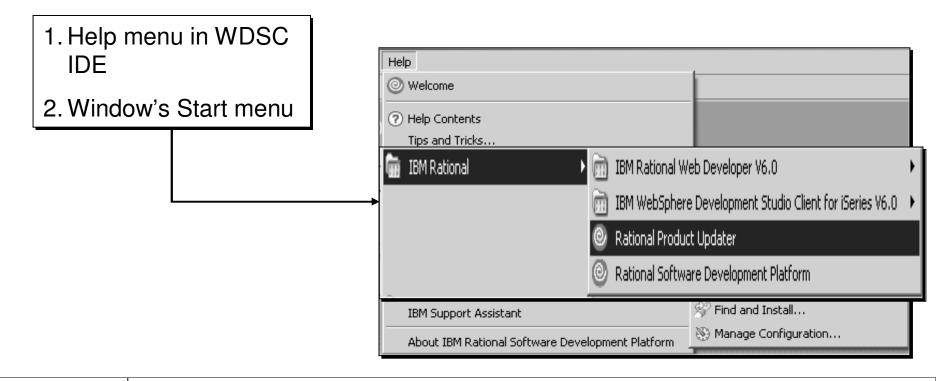
Next...

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- Components
- Online help
- Applying updates



Get current: Rational Product Updater

- Rational Product Updater (RPU) is the new tool [V6.0] used for updating all Rational based products
- Replaces Update Manager
- The RPU can be accessed in 2 ways:





RPU: Installed Products tab



Learn more about every update and fix. Simply click an update to display its corresponding ReadMe file in the right hand panel.

- The RPU will display all Rational based products installed on the machine
 - Name, product version and install date for each

Rational Software Development Platform Product Updates File Preferences Help	
IBM Rational Product Updater Search for updates for your installed products and install the updates.	
Installed Products Updates Optional Features Rollbacks Product Version Install Date IBM Rational Web Developer 6.0.0.1 Jun 14, 2005 12:16 PM IBM WebSphere Development Studio Client for iSeries 6.0.0 Jun 14, 2005 11:41 AM Find Updates Find Optional Features Find Optional Features	-Detailed information Select an item to see its detailed information.
Description Select an item to see its description.	



RPU: Updates tab

- Automatically searches for any missing updates for installed products
- Displays all fixes \rightarrow including fixes that depend on other fixes
- Have control over which fixes to install

Rational Software Development Platform Product Updates File Preferences Help		_ 🗆 ×
IBM Rational Product Updater		
Installed Products Image: Constant of the sector of th	-Detailed information IBM Rational Web Developer Interim Fix 001 for Rational Web Developer, Version 6.0.0.1	
Install Updates Set Recommended Clear All Selections Description Interim Fix 001 for Rational Web Developer 6.0.0.1	© Copyright IBM Corporation 2000, 2005. All Rights Reserved. Welcome to the IBM [®] Rational [®] Web Developer Interim Fix 001 for Rational Web Developer, Version 6.0.0.1. Table of contents <u>1.0 Prerequisites</u>	



RPU: Optional features tab

- Displays new functionality available for an installed product
- All listed items are 'optional'
 - Can continue to work effectively without the optional features

Rational Software Development Platform Product Updates		
IBM Rational Product Updater		
Installed Products & Updates Optional Features Rollbacks Product Version Install Date Image: IBM Rational Deployment Toolkit for 6.0.0 Image: Gradient AGL to EGL Conversion Utility 6.0.0.1	-Detailed information IBM Rational Web Developer Version 6.0 for IBM Rational Deployment Toolkit for WebLogic feature - release notes	
Install Features Select All Clear All Selections Description	© Copyright IBM Corporation 2000, 2005. All Rights Reserved. Welcome to the IBM [®] Rational [®] Deployment Toolkit for WebLogic® feature, powered by <u>Eclipse</u> technology release 3.0.1. Table of contents 1.0 About this release	▼



RPU: Rollback tab

- Allows you to remove [some] fixes already applied
- Some fixes are permanent, while others can be rolled back:
 - As defined by development team
 - e.g. some fixes are just too large and complex to allow rollback function

Preferences Help				
M Rational Product Updater	vala			
Product	Version	Install Date	betailed information	
🔄 💿 IBM Rational Web Developer	6.0.0	Jun 14, 2005 11:		_
6.0.0.1	6.0.0.1	Jun 14, 2005 12:	IBM Rational Web Developer Interim Fix	
Interim Fix 001 for Rational Web Developer 6.0.0.1		Jun 14, 2005 3:4	001	
B Interim Fix 002 for Rational Web Developer 6.0.0.1	6.0.0	Jun 14, 2005 3:5 Jun 14, 2005 11:		
IBM WebSphere Development Studio Client for iSeries	6.0.0	JUN 14, 2005 11:	for Rational Web Developer, Version 6.0.0.1	
			© Copyright IBM Corporation 2000, 2005. All Rights Reserved.	
1				
			Welcome to the IBM [®] Rational [®] Web Developer Interim Fix 001	
Koli back opuates Delett All Clear All Deletions			for Rational Web Developer, Version 6.0.0.1.	
Description				
Interim Fix 001 for Rational Web Developer 6.0.0.1			Table of contents	
			1.0 Prerequisites	
			2.0 Fixes contained in this release	-



IBM WebSphere Software

IBM WebSphere Development Studio Client for iSeries Workbench Basics:

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