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AJAX Toolkit Framework

Emerging Internet Technologies Group



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Ajax - What's our vision

➤ **Grow Ajax adoption to the next phase**

- ✓ Evolve tools that significantly reduce the development costs & skills of incorporating Ajax into a broad range of web applications

➤ **Growing usage of Ajax in applications will foster innovation in open source frameworks**

▪ **The community & applications produced will enable Ajax future functionality**

- ▶ Through the looking glass - innovation will lead to consolidation around a few Ajax personalities - i.e:
 - Web Developers - rich(er) desktop interactions thru the browser
 - Web Designers - rich visual user experiences



Overview

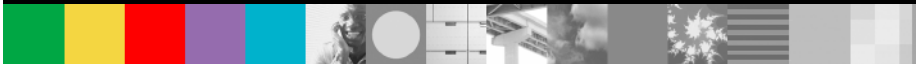
The AJAX Toolkit Framework (ATF) is a set of plugins which enables:

- ✓ The development of tools for any DHTML/AJAX application
 - ✓ Tight integration with the existing Eclipse user interface and development paradigm
 - ✓ Plug-ins to facilitate use of various AJAX toolkits and/or class libraries
- Targets AJAX Application Developers and Toolkit Developers



External Dependencies

- AJAX Toolkit Framework is a collection of Eclipse Plugins
- The ATF Plugins depend on:
 - ✓ Eclipse Web Tools, Mozilla Xul Runner and Java Connect.
- External dependencies include:
 - ✓ Java Script development enhancements Rhino and JSLint
 - ✓ Individual AJAX toolkit personality Zimbra, Rico and other Ajax tool kits



AJAX Toolkit Framework is Eclipse Plugins



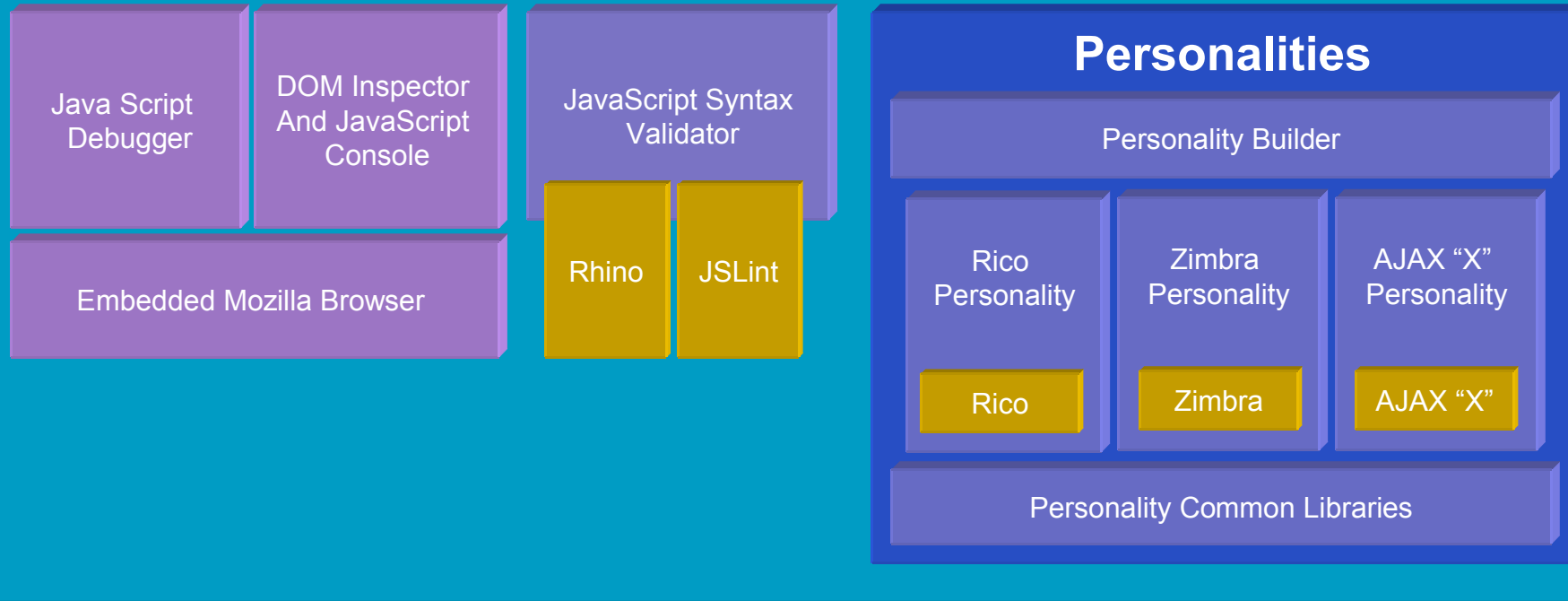
AJAX Toolkit Framework
is a collection of Eclipse plugins

Legend:  External



AJAX Toolkit Framework Components

Eclipse Plugins



Mozilla
XULRunner & JavaConnect

Eclipse WebTools

Legend:  External

AJAX Toolkit Framework Components

- JavaScript Editor
 - ✓ Batch and as-you-type syntax validation
- JavaScript Debugger
 - ✓ Tight integration with Eclipse debug UI to provide flow control in Mozilla and the ability to examine JavaScript code and variables
- Embedded Mozilla Browser
 - ✓ Access to Mozilla XPCOM
- DOM Inspector / JavaScript Console
 - ✓ Mozilla tools integration for DHTML developers as Eclipse Views.
- Integrated Deployment
 - ✓ J2EE / JSP
 - ✓ Apache / PHP



Personality Builder

- A set of Wizards which accept:
 - ✓ Artifact data (AJAX toolkit libraries)
 - ✓ Build requirements data
 - ✓ New application templates
 - ✓ Code patterns
 - These may also be added by AJAX Developers
 - ✓ Deployment data
- Wizards output a 'basic' Personality Plugin
 - ✓ The builder will provide necessary basic development features targeted for AJAX toolkits
 - ✓ Enables customization and addition of functionality

MrClean Tooling

New Project Wizard generation

Specify information to create a project wizard

Generate project wizard

Wizard Name: Rico Project

Package: com.ibm.mrclean.rico.ui

Class: RicoProjectWizard

Category: Rico

Description: Creates a new Rico Project

Nature to inject: com.ibm.mrclean.rico.ricoNature

Server platform: J2EE

Nature

Generate nature

Nature Id: ricoNature

Nature Name: Rico Nature

Package: com.ibm.mrclean.rico.natures

Class: RicoNature

Nature artifacts plugin ID: com.rico.tools

Lib directory: lib

Resources directory: resources

Builder

Generate incremental project builder

Builder Id: ricoBuilder

Builder Name: Rico Builder

Package: com.ibm.mrclean.rico.builders

Class: RicoBuilder

< Back Next > Finish Cancel

Status

- Eclipse Project Accepted
- Currently available on AlphaWorks
 - ▶ <http://www.alphaworks.ibm.com/tech/ajaxtk>
 - ▶ 2400+ downloads since February





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Backup



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Personality Builder

	ZIMBRA	RICO	AJAX TECHNOLOGY "X"
ARTIFACTS	<ul style="list-style-type: none"> ▪ .js files ▪ .css files 	<ul style="list-style-type: none"> ▪ prototype.js ▪ rico.js 	<ul style="list-style-type: none"> ▪ .js, .css, plus arbitrary
BUILD REQS	<ul style="list-style-type: none"> ▪ Hi / lo rez image infrastructure ▪ Locale setup 	<ul style="list-style-type: none"> ▪ n/a 	<ul style="list-style-type: none"> ▪ PB will provide hooks for developer-provided Builders
NEW APP (templates)	<ul style="list-style-type: none"> ▪ HTML (.js / .css library accumulator) ▪ JS UI 	<ul style="list-style-type: none"> ▪ HTML (.js library accumulator) ▪ onload handler stack pattern 	<ul style="list-style-type: none"> ▪ arbitrary, but most will likely follow "HTML (.js library accumulator)" pattern
CODE PATTERNS	<ul style="list-style-type: none"> ▪ Sample Button ▪ Sample Form ▪ AJAX req / resp 	<ul style="list-style-type: none"> ▪ Accordion ▪ Live Grid ▪ Round corners ▪ Drag / Drop ▪ AJAX req / resp 	<ul style="list-style-type: none"> ▪ extensible scheme for addition / edit of new code patterns
DEPLOYMENT	<ul style="list-style-type: none"> ▪ J2EE / Apache 	<ul style="list-style-type: none"> ▪ Apache 	<ul style="list-style-type: none"> ▪ J2EE / Apache ▪ Conformant server plugins



Coding Patterns

- Technology-specific Coding Patterns may be added by Personality Builder
- Or developed and added by AJAX Developers
- These Coding Patterns may be distributed and shared

