

# AJAX

In an open source environment

# What is AJAX

- *Ajax*, shorthand for "*Asynchronous JavaScript and XML*," is a web development technique for creating interactive web applications. The intent is to make web pages feel more responsive by exchanging small amounts of data with the server behind the scenes, so that the entire web page does not have to be reloaded each time the user requests a change. This is intended to increase the web page's interactivity, speed, and usability.

# Why AJAX

- Rich user interface
- Handle large amounts of data faster
- Standards based

# How

- Google Web Toolkit
- Dojo
- Yahoo! User Interface Library
- Direct Web Remoting
- Spry framework for Ajax
- Mochikit
- [Script.aculo.us](http://script.aculo.us):

# Google Web Toolkit

- Google Web Toolkit (GWT) is an open source Java development framework that lets you escape the matrix of technologies that make writing AJAX applications so difficult and error prone. With GWT, you can develop and debug AJAX applications in the Java language using the Java development tools of your choice. When you deploy your application to production, the GWT compiler translates your Java application to browser-compliant JavaScript and HTML.

# Google Web Tool Kit Features

- Dynamic, reusable UI components
- Really simple RPC
- Browser history management
- Real debugging
- Browser compatible
- JUnit integration
- Internationalization Interoperability and fine-grained control
- Completely Open Source

# WYSIWYG Tools

- **GWT Designer™** from Instantiations is powerful, easy-to-use, and bi-directional. With its WYSIWYG tools, you can easily:
  - add controls using drag-and-drop.
  - add event handlers to your controls.
  - change various properties of controls using a property editor.
  - change and refactor its generated code and see it immediately in the visual designer.
  - reverse engineer code created by hand.
- **GWT Designer™ is a plug-in to any of:**
  - Eclipse 3.2 or higher for Windows, Linux or Mac
  - Any Eclipse 3.2-based IDE such as Rational Application Developer 7.0

# GWT Integration

- Struts
- Struts 2
- JSF

# The End

- Thank You