Google Web Toolkit

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Agenda

* Introduction and history
* Components and features
* Examples
* How websites use GWT
* Summary
What is Google Web Toolkit?

* Open source Java software development framework
* Build javaScripts and AJAX-applications in Java

Description by Google

“GWT’s mission is to radically improve the web experience for users by enabling developers to use existing Java tools to build no-compromise AJAX for any modern browser.”
Some history

* First version (1.0) developed in 2006 and latest (1.5.3) in October 2008.

* Version 1.6 is under development

* Compatible with Windows, Mac OS X and Linux
4 main components

GWT Java-to-JavaScript Compiler
- Translates Java code into JavaScript

GWT Hosted Web Browser
- Allows to run application in hosted mode

JRE emulation library
- JavaScript implementations of commonly used Java libraries

GWT Web UI class library
- Custom classes to create GWT widgets
Some important features

* Pre-defined classes (described in a extensive help file) → Help

* Mix handwritten JavaScript in the Java source code

* GWT handles all problems with different (modern) browsers

* Handles history management and bookmarking

* Open source software
Examples

* Widgets
* Popups
* Internationalization
* Google maps
* Gmail
* ...

Showcase
How to use

1. Download and install GWT

2. Open the mail sample in hosted- or webmode
   Mail sample catalog

3. Customize the content for your own needs
Websites using GWT

* Example - whirled.com
  - small animated games online

* One of the developers is talking about GWT on youtube → Whirled - Youtube

* Back button?? Let’s take a look at that site again
Summary

* GWT = Open source development framework
* Java to JavaScript compiler
* Compatible with all modern browsers
* Two modes
  - hosted mode
  - web mode
Questions?