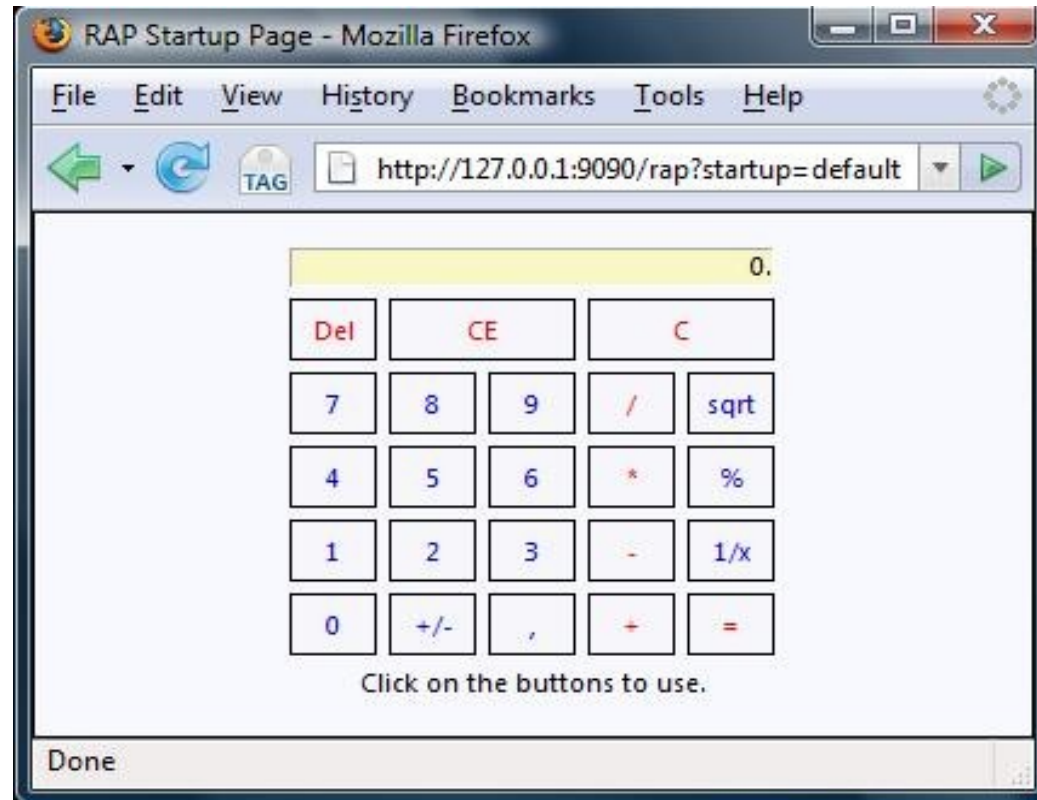# Java-based web-apps with the Rich Ajax Platform (RAP)

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Our Goal: Write a Calculator
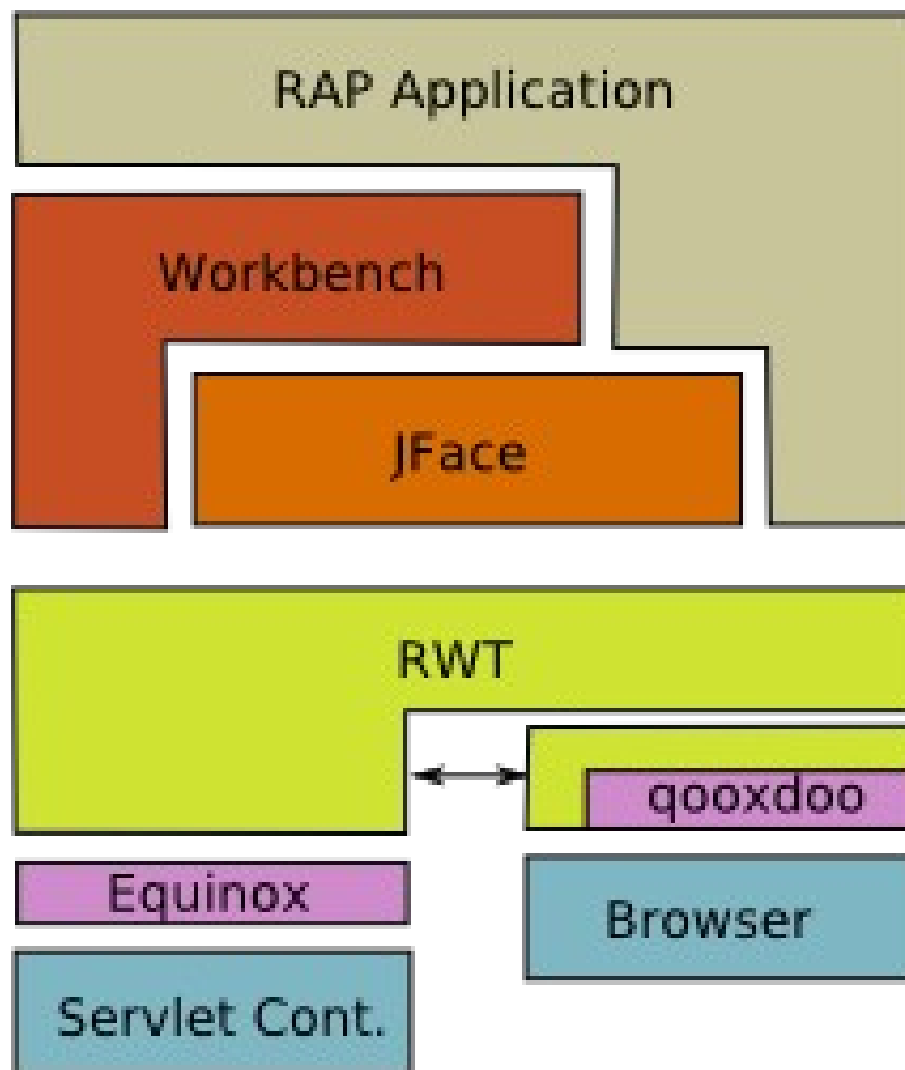
Eclipse Rich Ajax Platform Project (RAP)

Goal: develop rich Ajax-enabled web applications by:

- coding in Java
- using the full Java libraries
- using Java-based Widget Toolkit
- component-oriented development model (plug-ins / OSGi)
- extensible (xml-meta info + java-code)
- without hand-coding Ajax

- **skill preservation** – leverage existing Java / Eclipse know-how
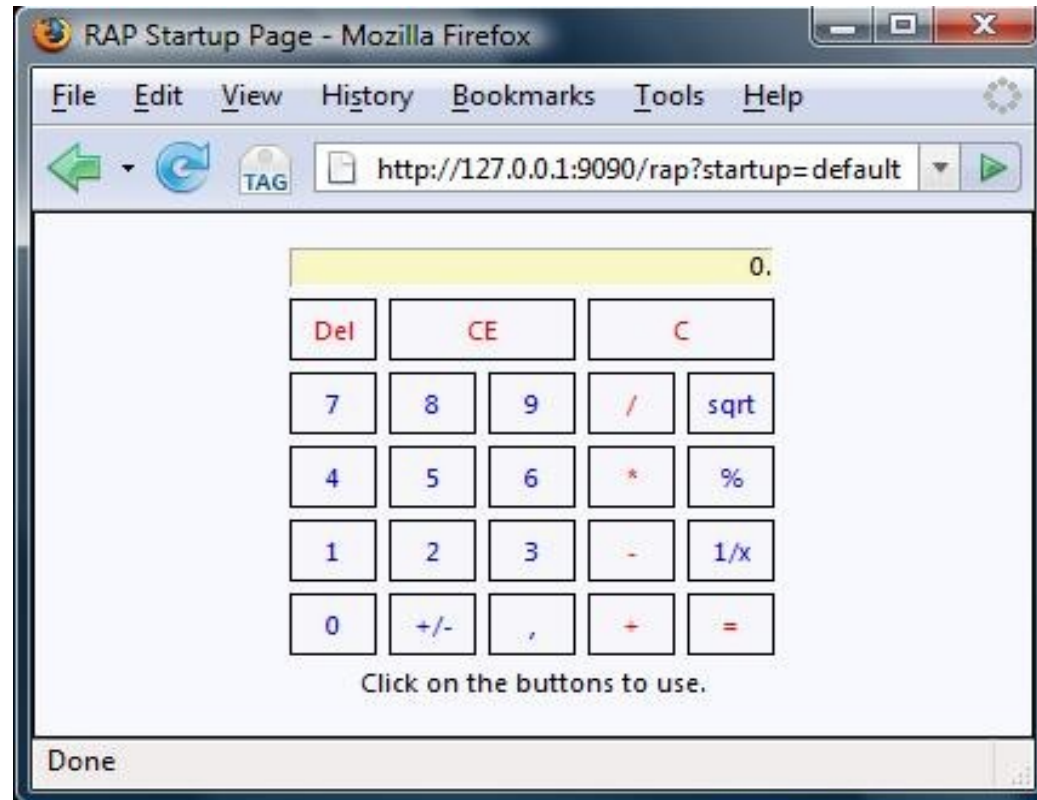- **single sourcing** of rich client and rich internet applications

How does it work?

- RAP Widget Toolkit (RWT) - port of the [Standard Widget Toolkit](#) (SWT)
- server-centric - logic resides on the server
- UI is rendered by emitting browser-side JavaScript at run-time
- user action triggers a state-update (example button was clicked)
- state is recomputed on server
- only the "delta" is transmitted (very small)

RAP Architecture Overview

Show me the code!

RAP Resources

Give it a try!

- **Today's Slides** - rapblog.innoopract.com (Jan 2008)

- Project Homepage - www.eclipse.org/rap/
- Demos - www.eclipse.org/rap/demos.php
- Newsgroup - www.eclipse.org/rap/newsgroup.php

- Getting Started Screencast
  http://www.thescreencast.com/2007/10/first-look-at-eclipse-rich-ajax.html

Thanks for attending!

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