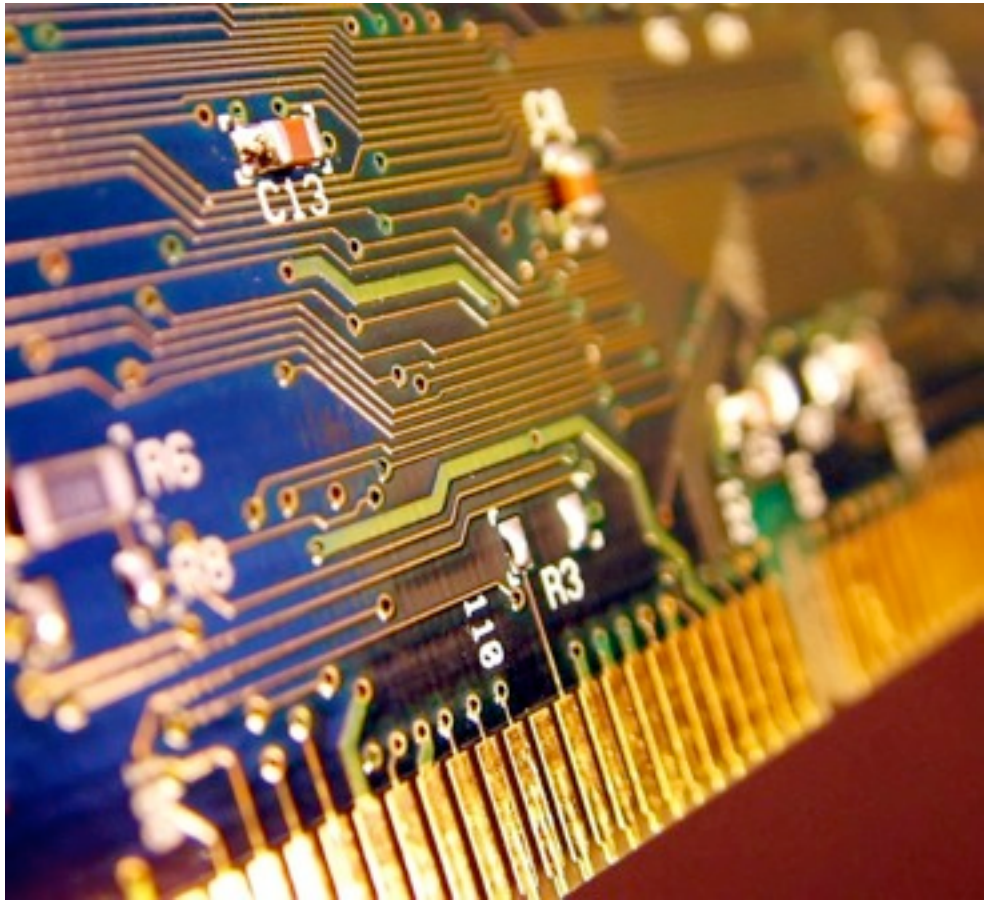
Single-Sourcing
RAP and RCP

Chris Aniszczyk
zx@eclipsesource.com

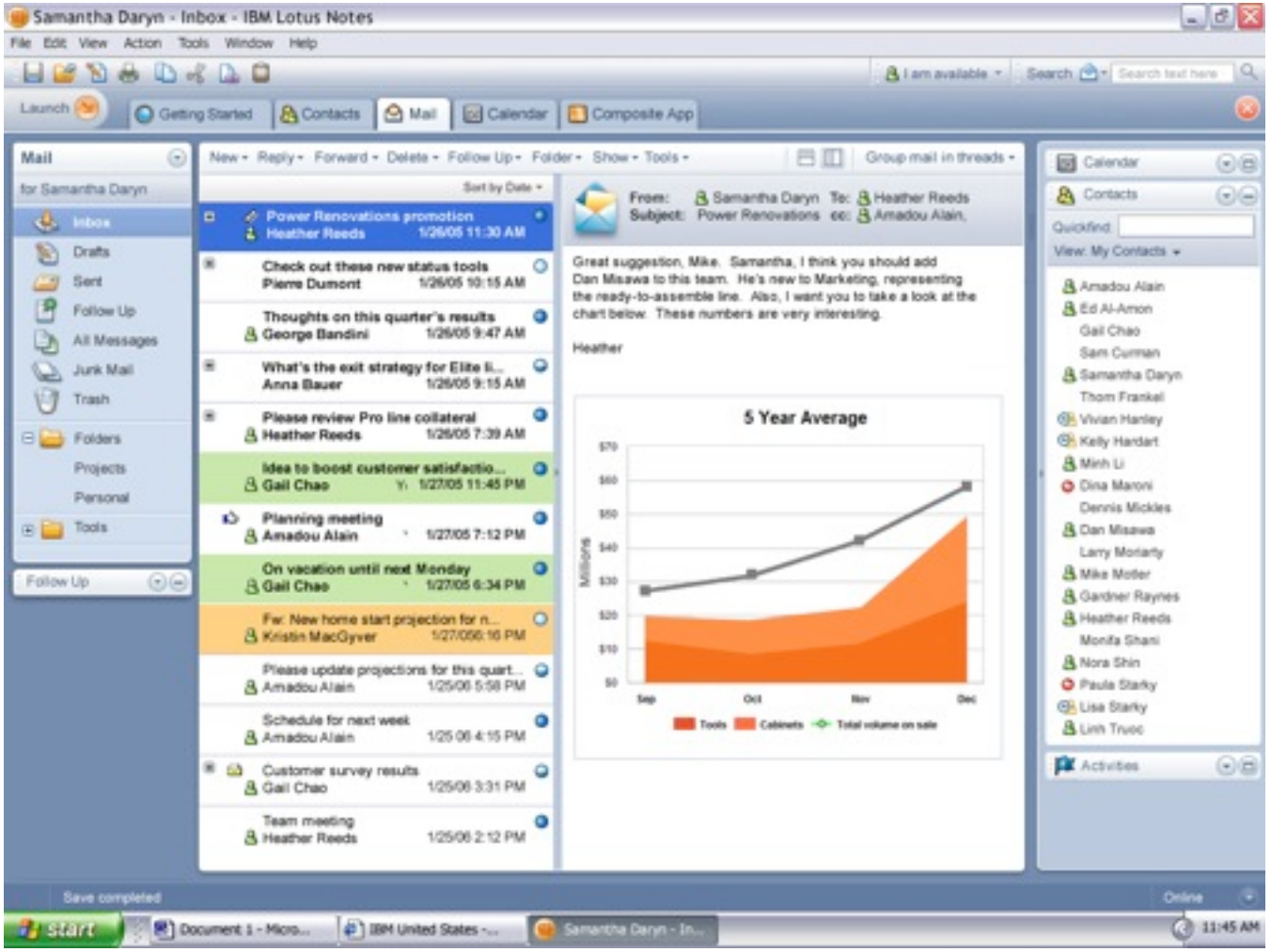
EclipseSource

Let's Talk Technology...



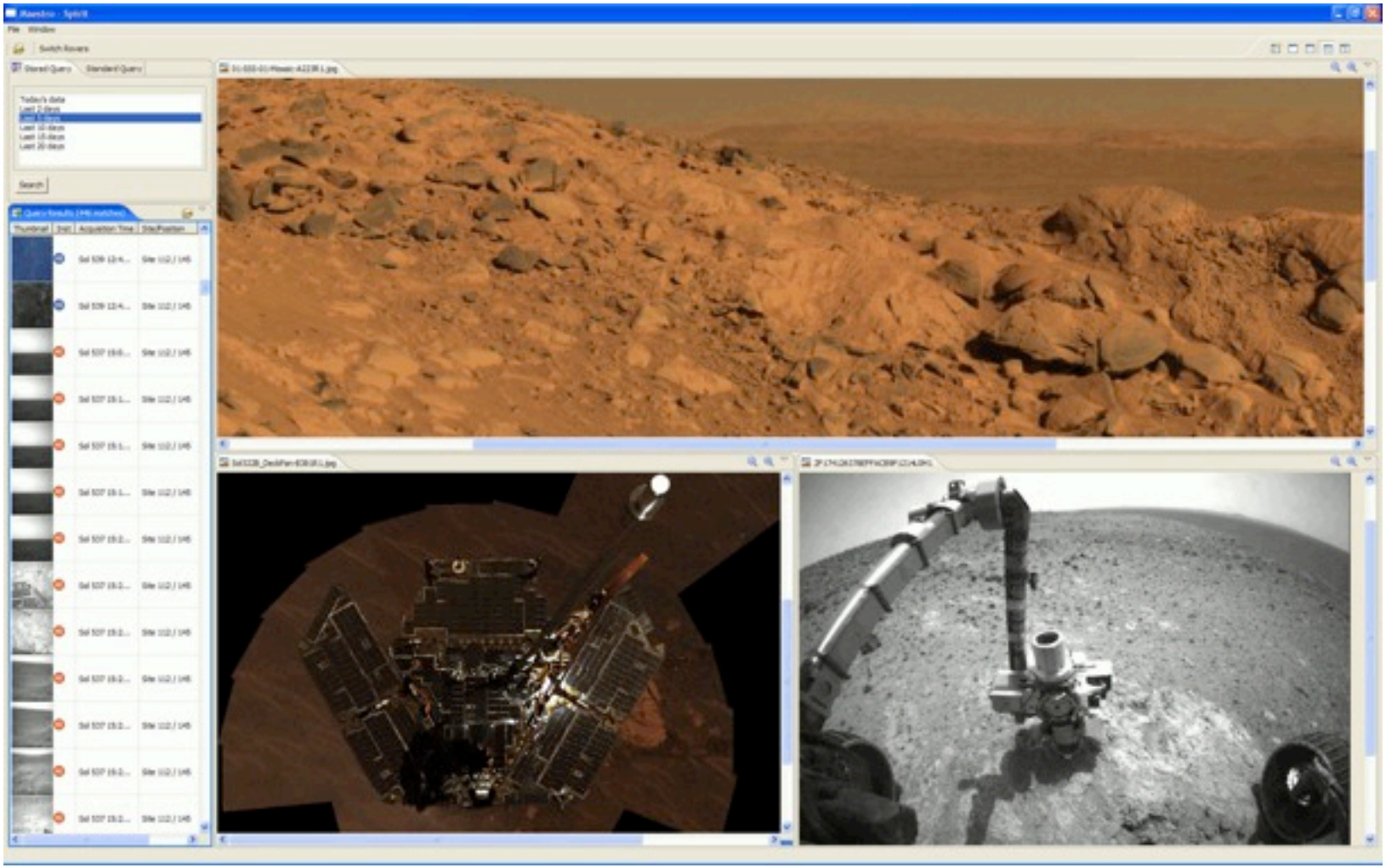
Eclipse RCP!

Lotus Notes 8+



Lotus Sametime 7.5+

NASA Maestro

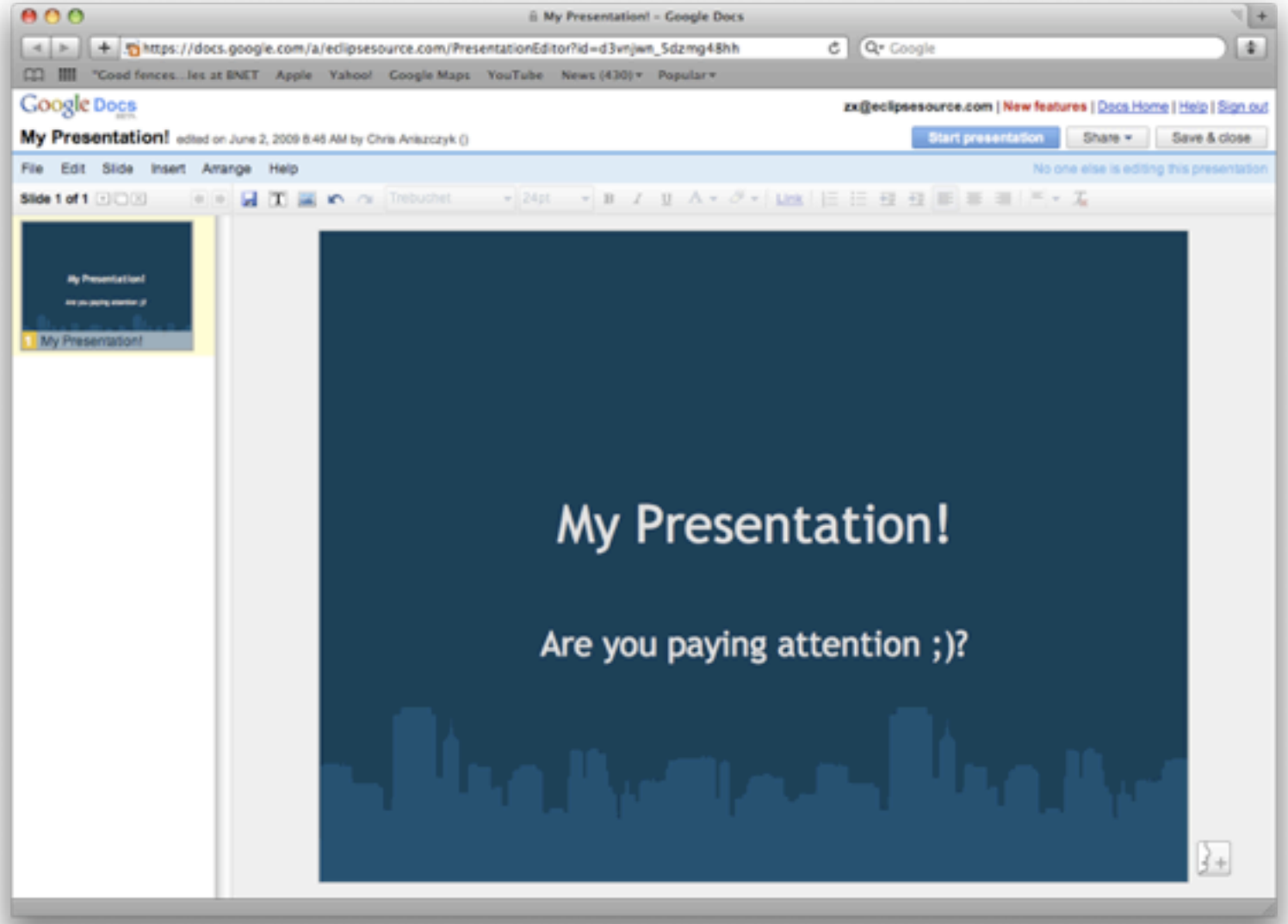


RCP Knowledge

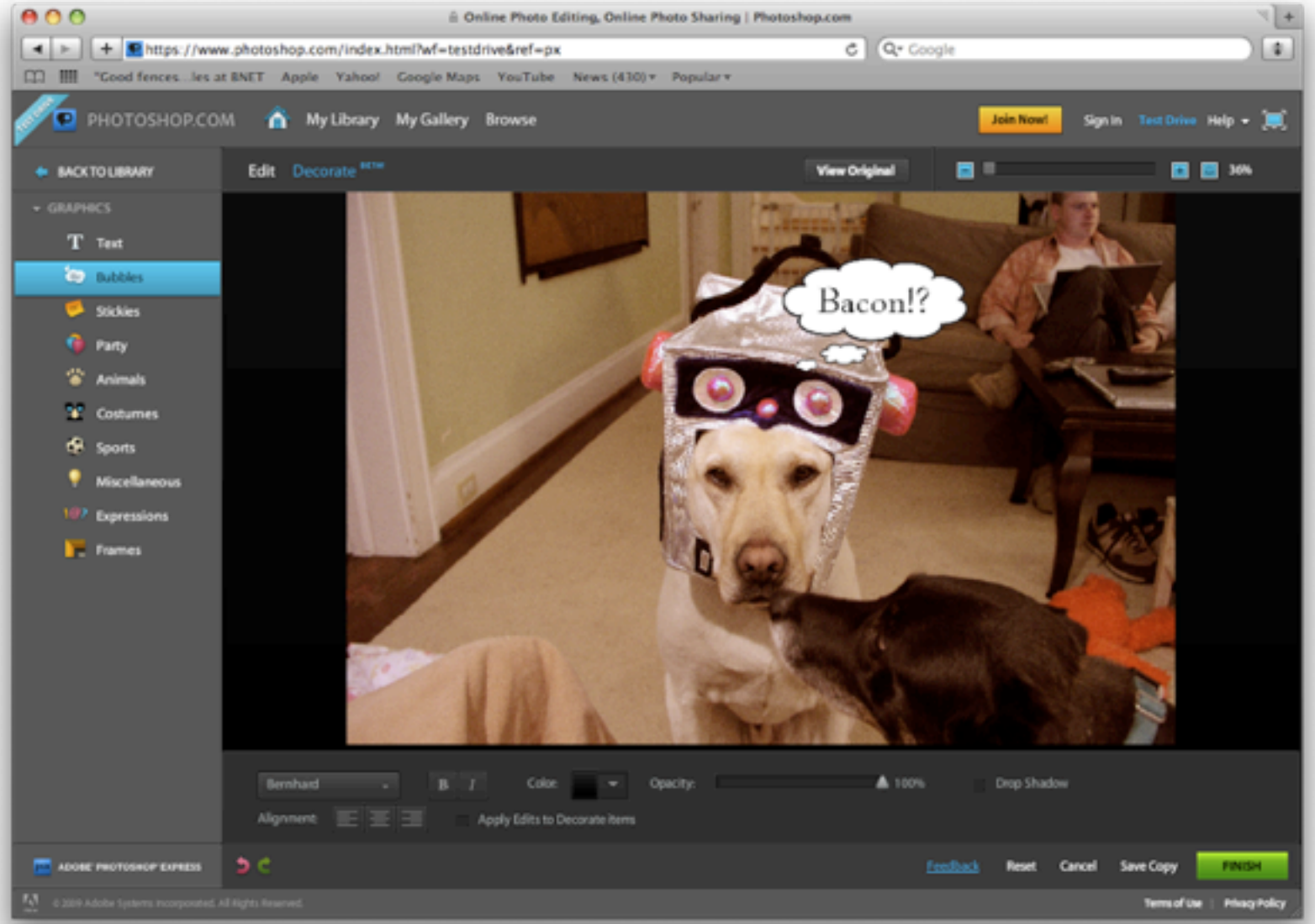
Web 2.0?

*thin clients are back and thicker this time!

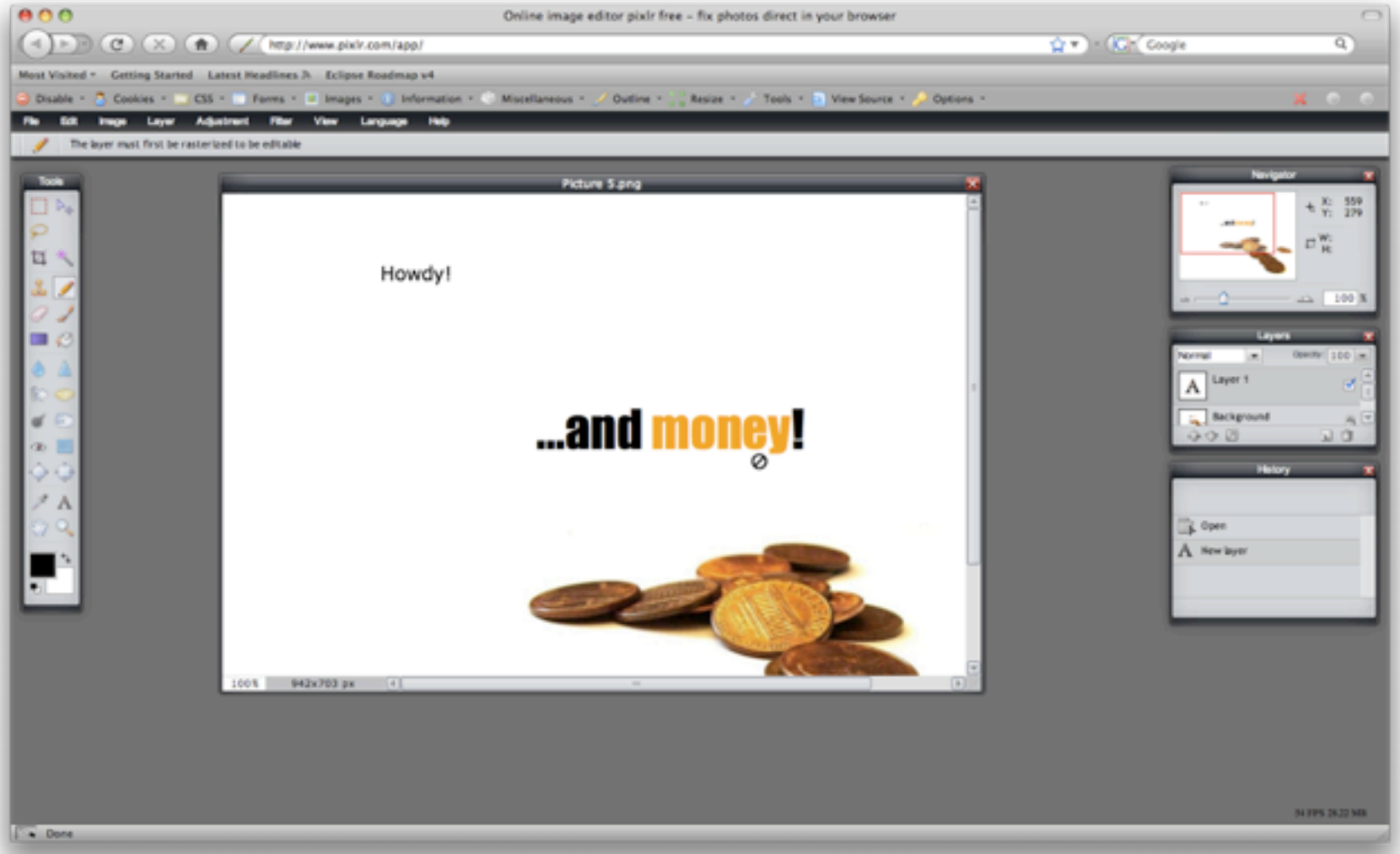
Online Presentations?



Online Photoshop?



Pixlr


Online image editor pixlr free – fix photos direct in your browser
http://www.pixlr.com/app/
Picture 5.png
Howdy!
...and money!
Navigator
Layers
History

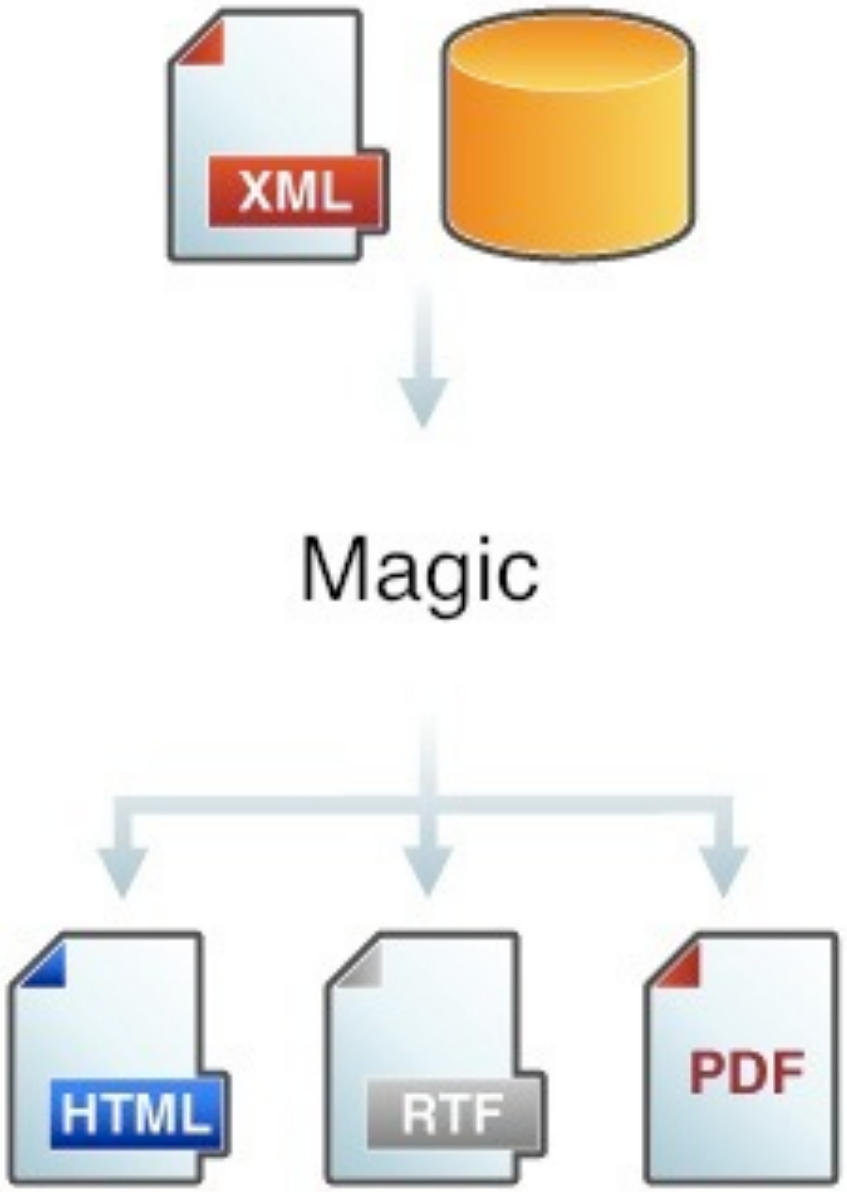
Web 2.0 Knowledge

Web 2.0
Desktop

A solution?

single sourcing *[ˈsɪŋ.gl sɔːrsɪŋ]*

Single source publishing, also known as single sourcing, allows the same content to be used in different documents or in various formats.

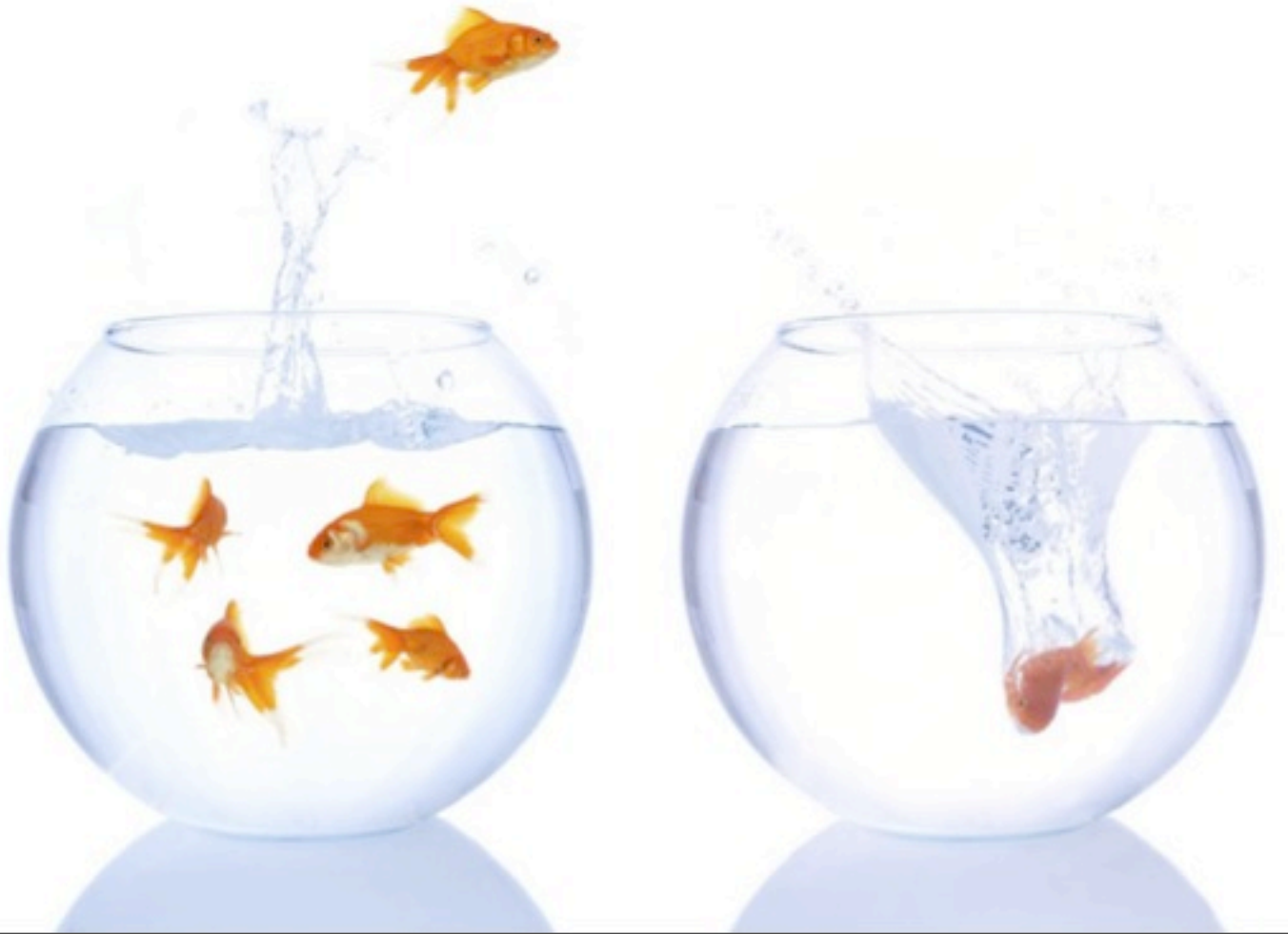

XML
Magic
HTML
RTF
PDF

single sourcing ['sɪŋ.gl sɔ:rsɪŋ]

Single source publishing, also known as single sourcing, allows the same content to be used in different documents or in various formats.

source *runtime environments*

Impossible?



Exchange the Runtime!

EclipseRT and OSGi

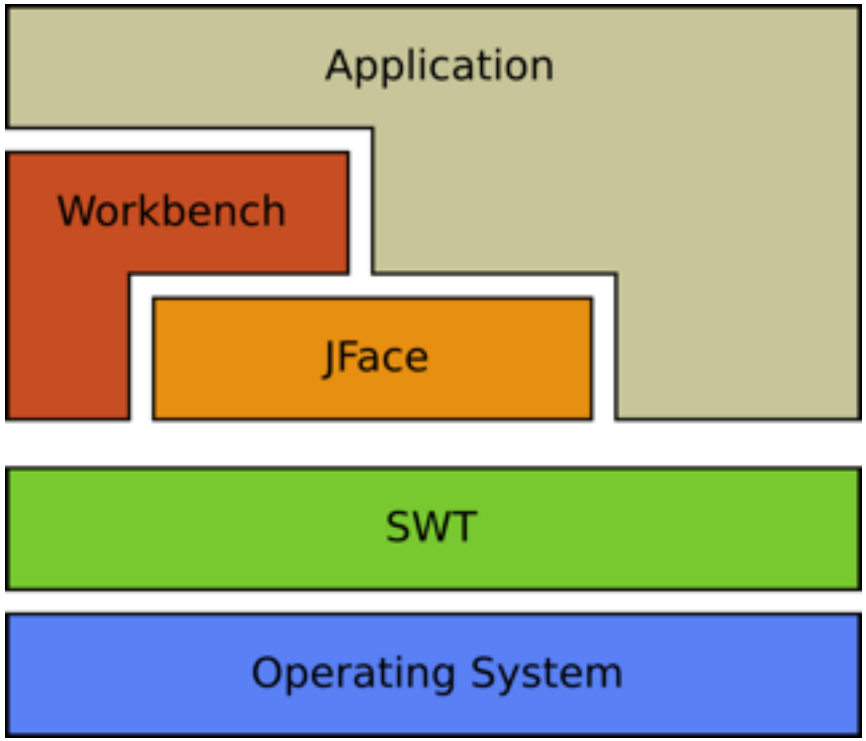
RCP

RAP

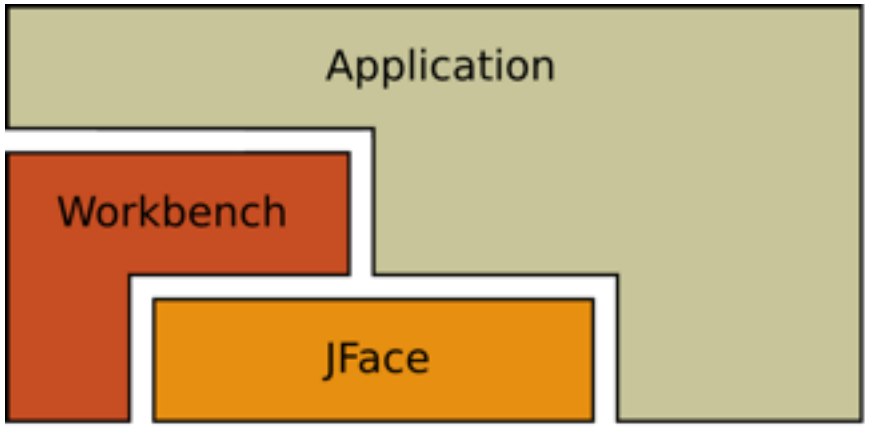
e q u i n o x

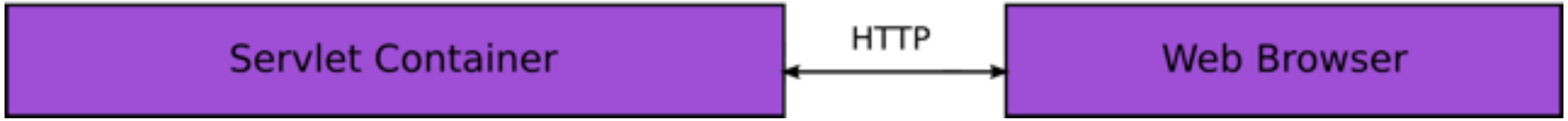
eclipseRT

Layers of RCP

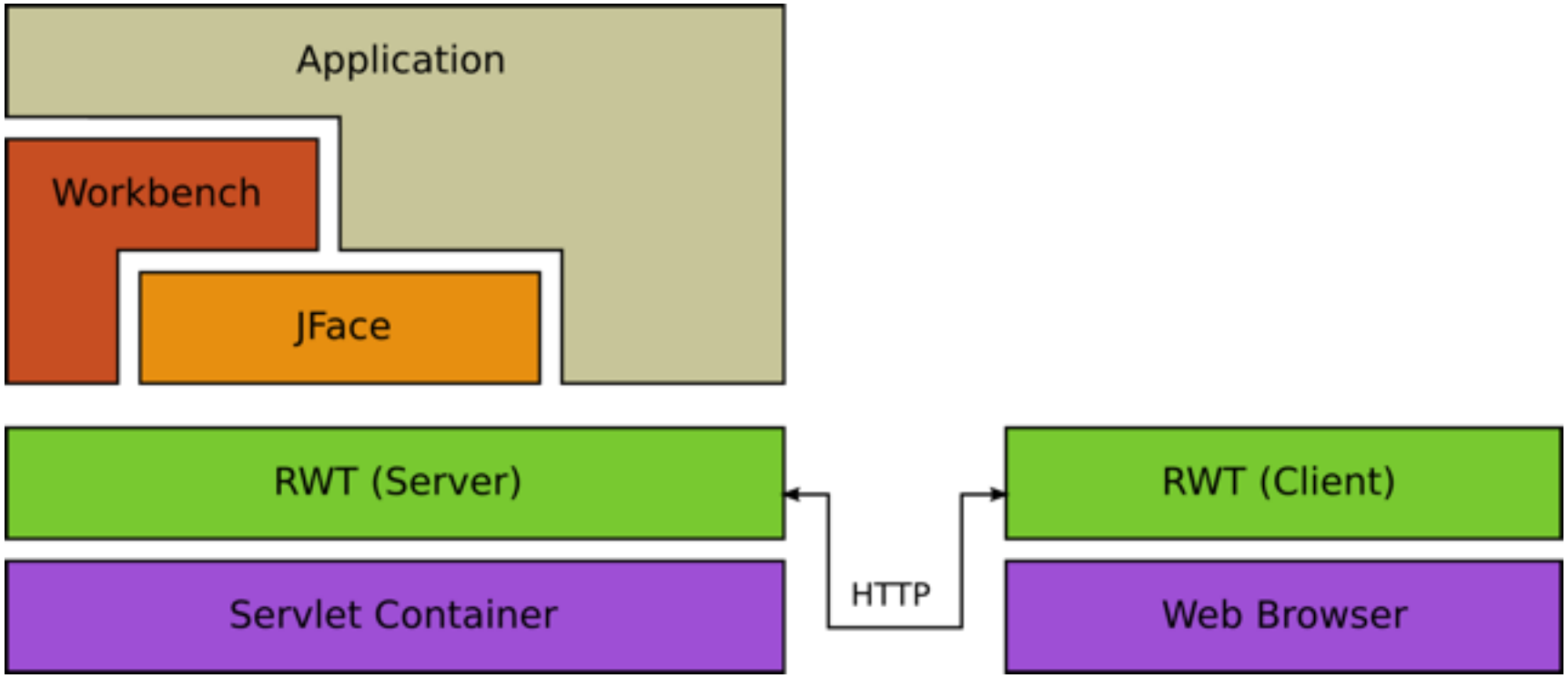


Moving to the web...





RAP Layers

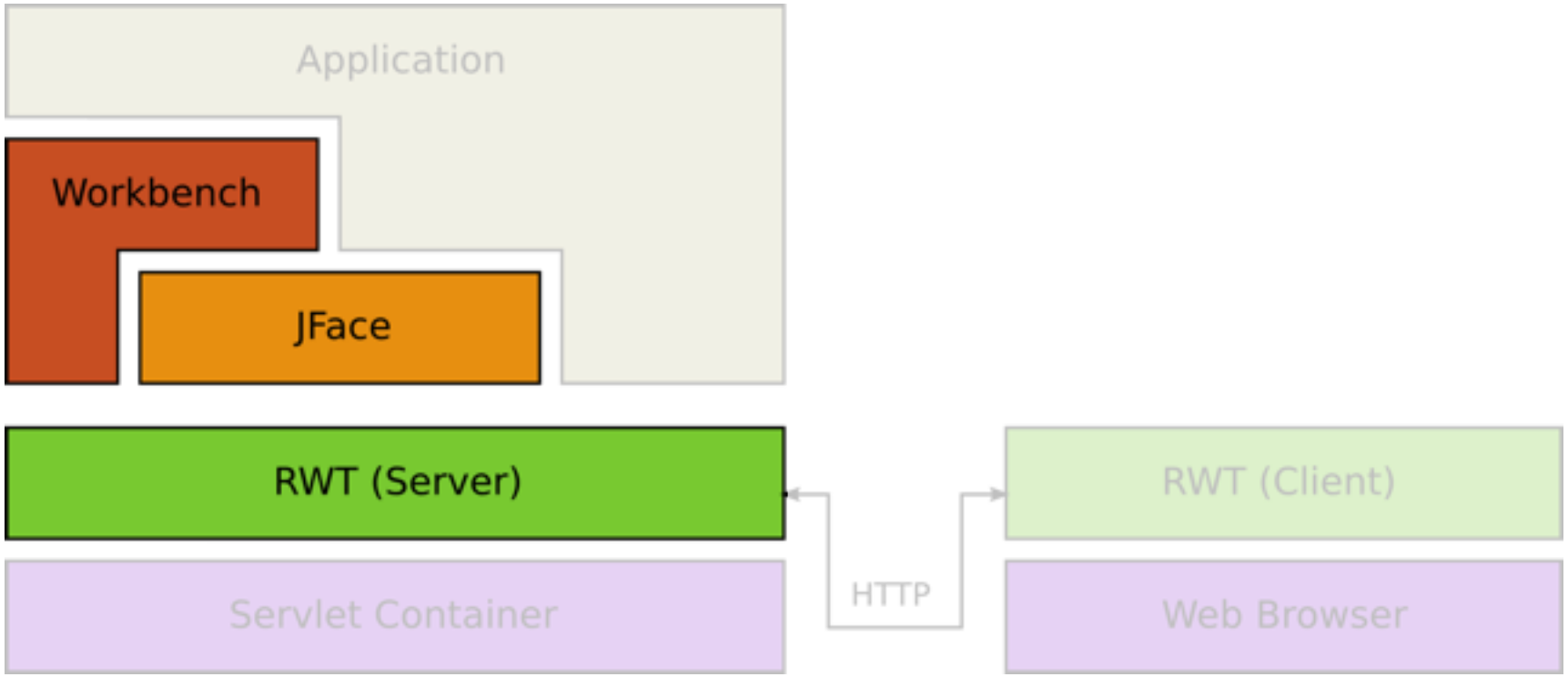

Application
Workbench
JFace
RWT (Server)
RWT (Client)
HTTP
Servlet Container
Web Browser

qooXdoo

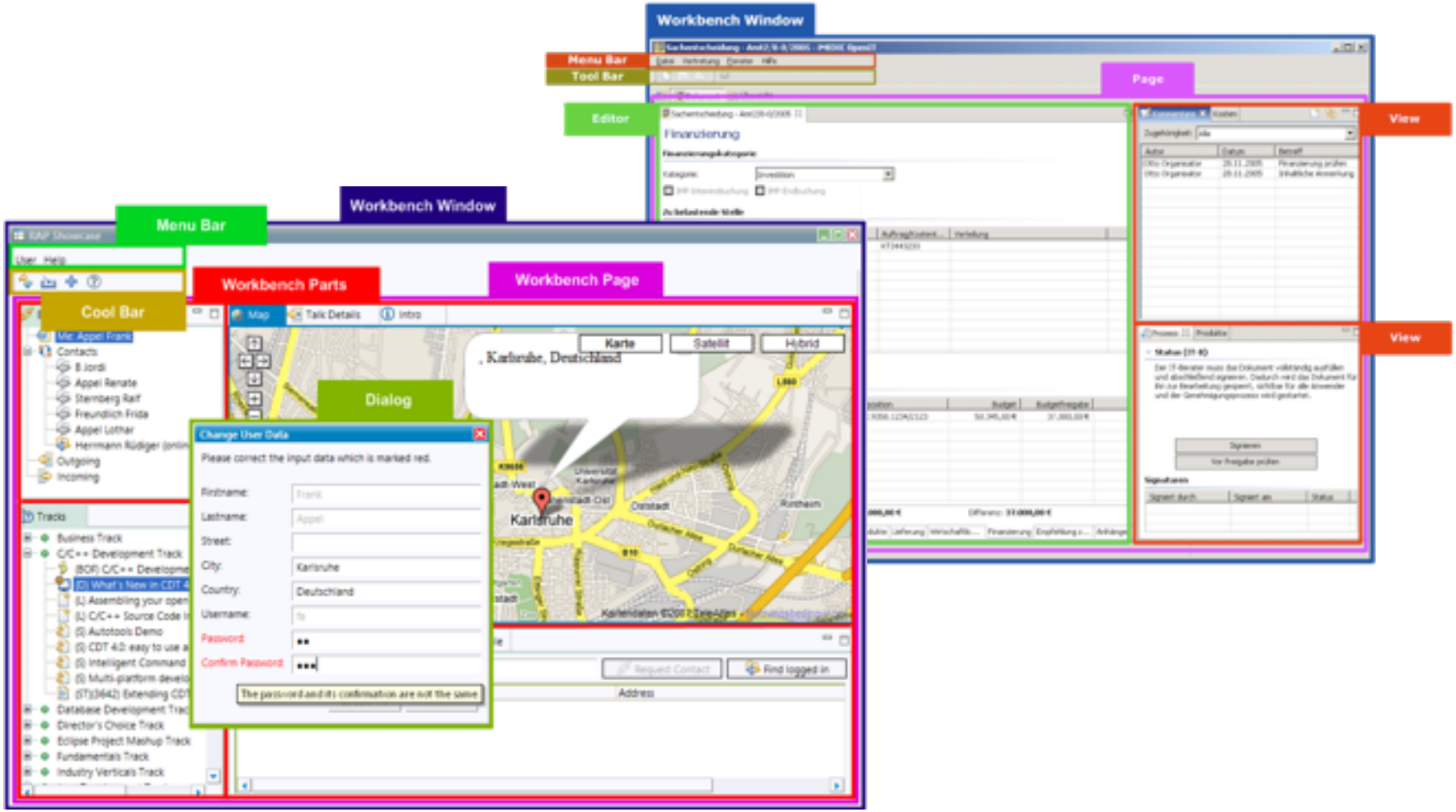
Qooxdoo?

A Swing/Qt/Cocoa type framework for the web...

On the Surface... RCP-ish



Best of both worlds...

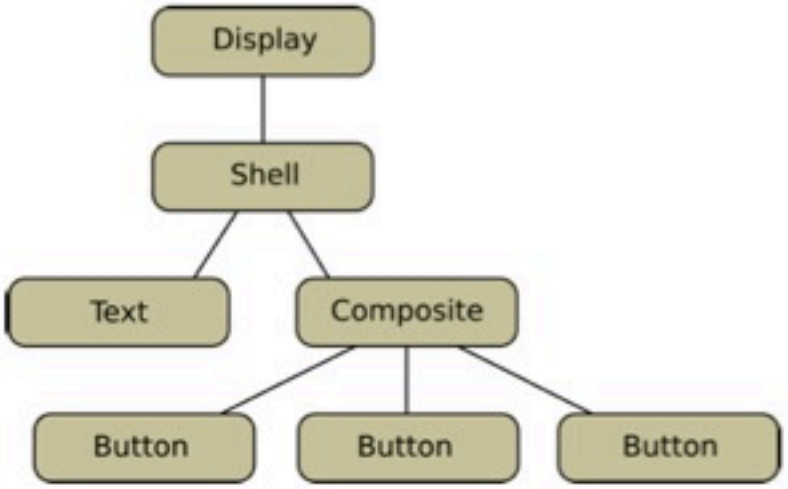


Theming Possibilities!

How does it work?

Client

Server

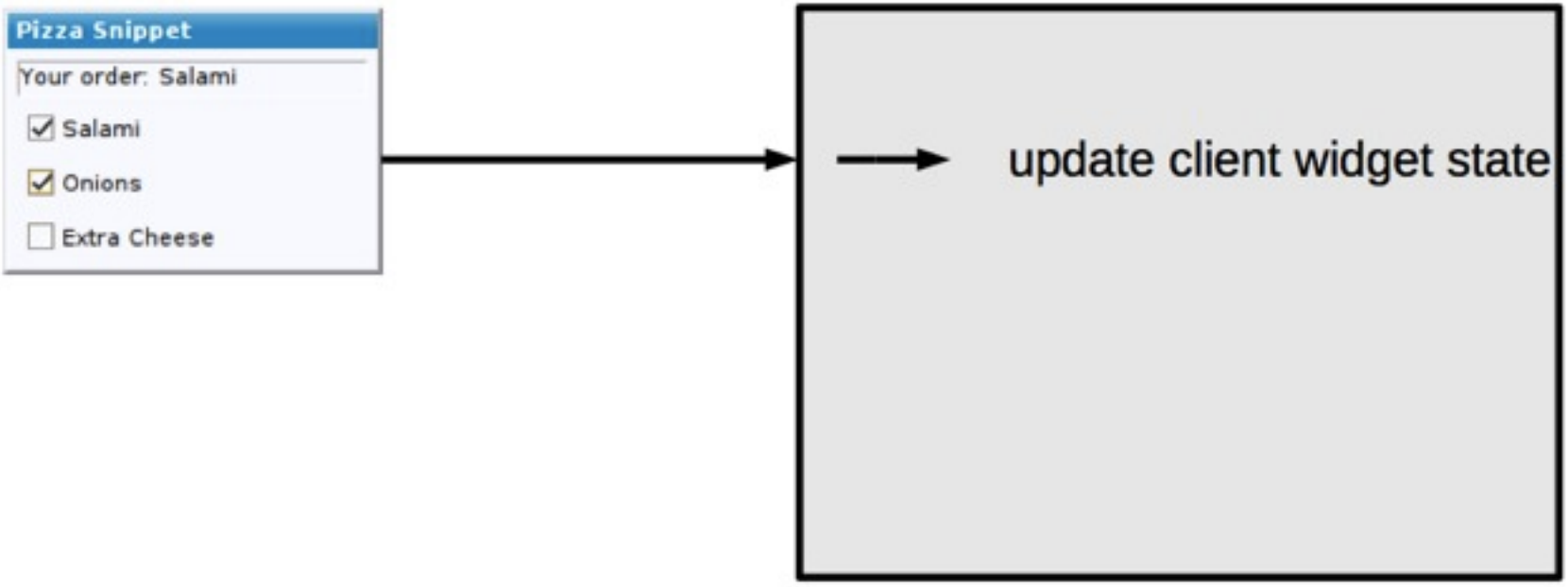


Request Life Cycle

An event triggers a request...

Request Life Cycle

Request is processed on the server...
updates server-side widgets...
process events...
generate response...



Request Life Cycle

The user interface changes are rendered on the client...

Why!?

It’s possible!

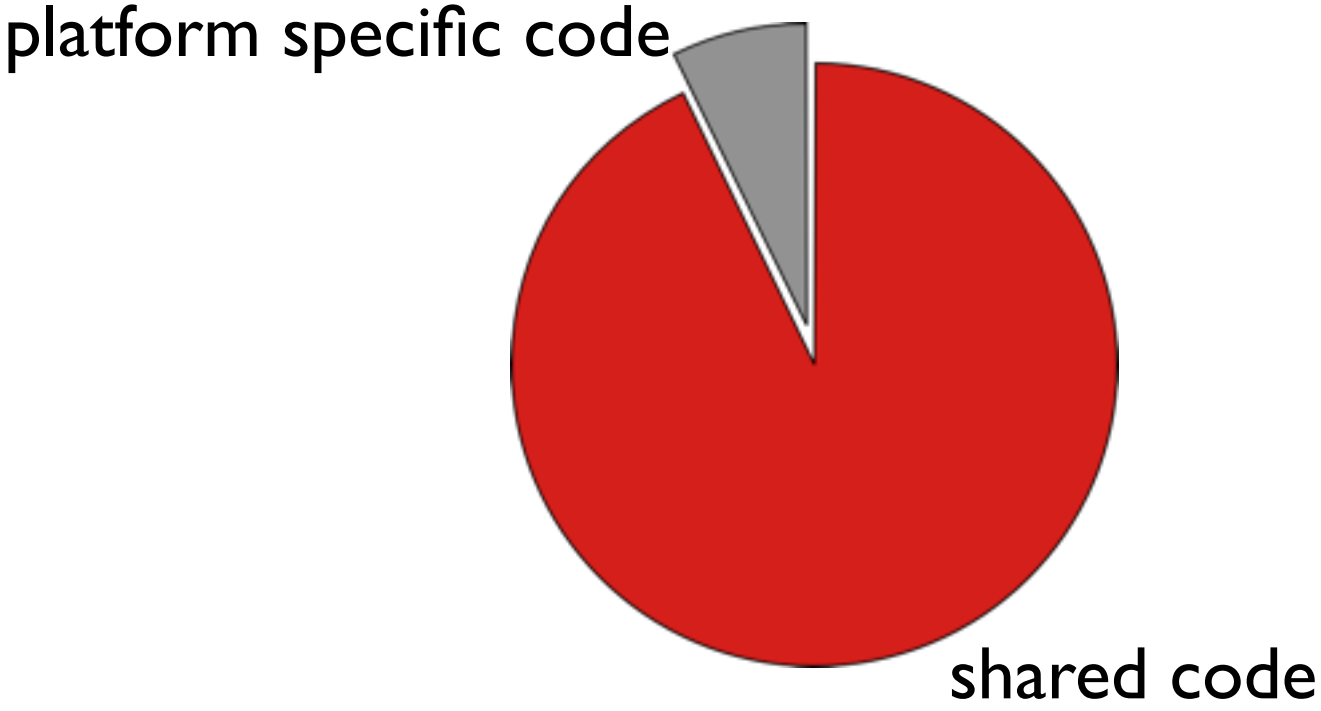
It saves time...

...and money!

How much reuse!?

Code Reuse

80%–98% is possible



What about the 2-20%?

RAP Runs in a Browser

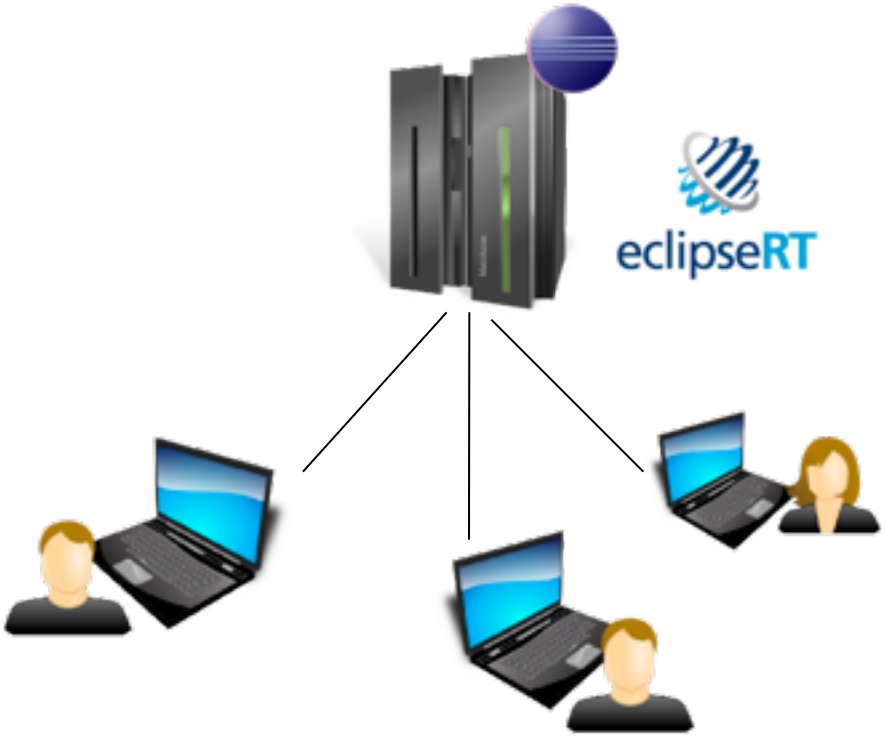
File system
GraphicsContext*
MouseMove*

RCP

File upload
Theming*

RAP

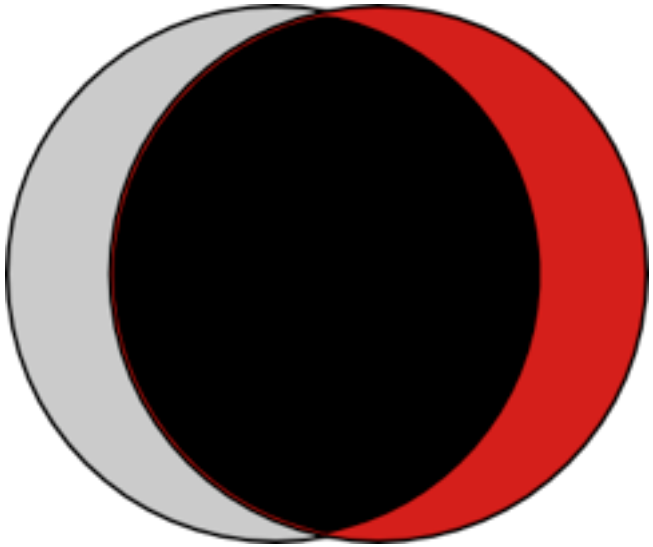
RAP is Multi-User!



RCP

RAP

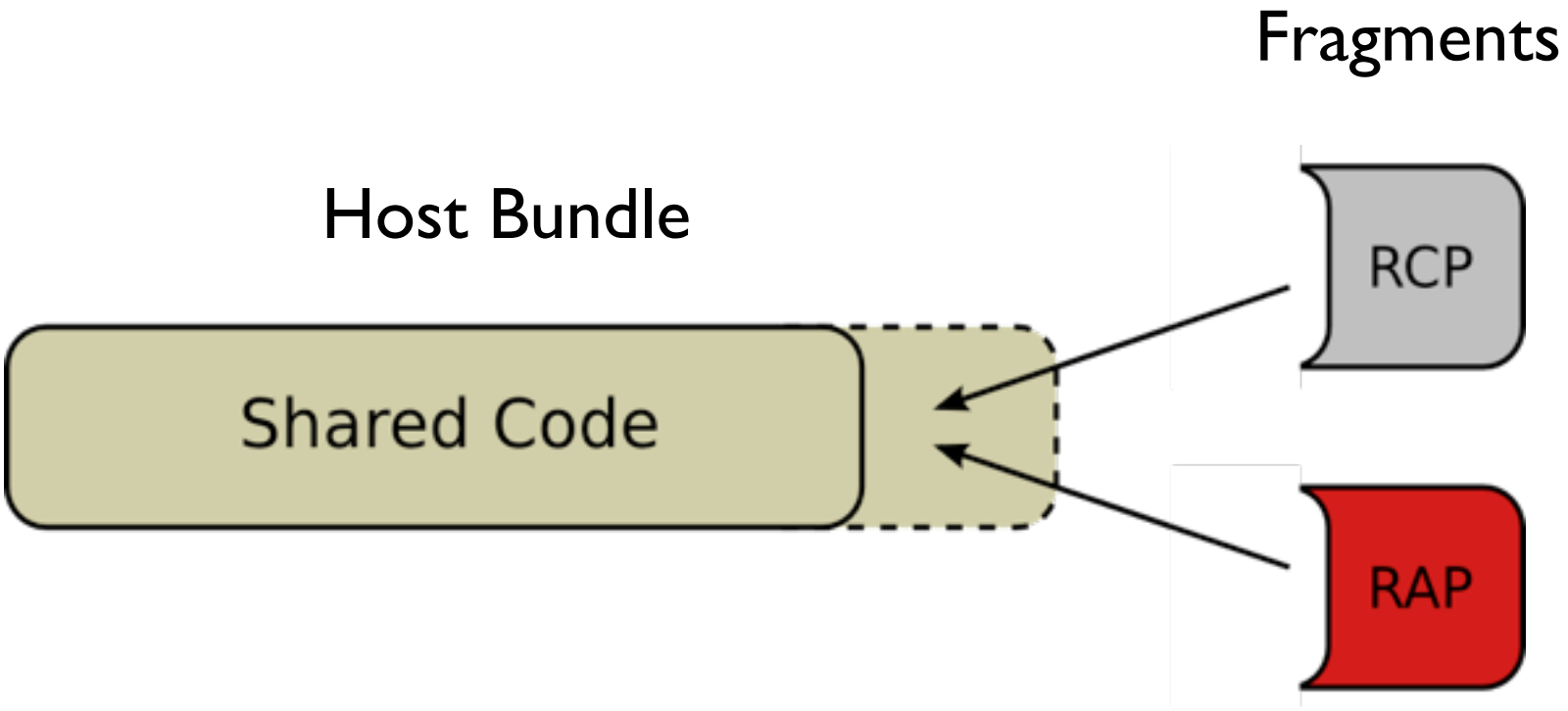
API Differences



Desktop-only features

Web-specific features

SingleSourcing via Fragments



MESSAGE
Demo
DATE
SCENE
TAKE

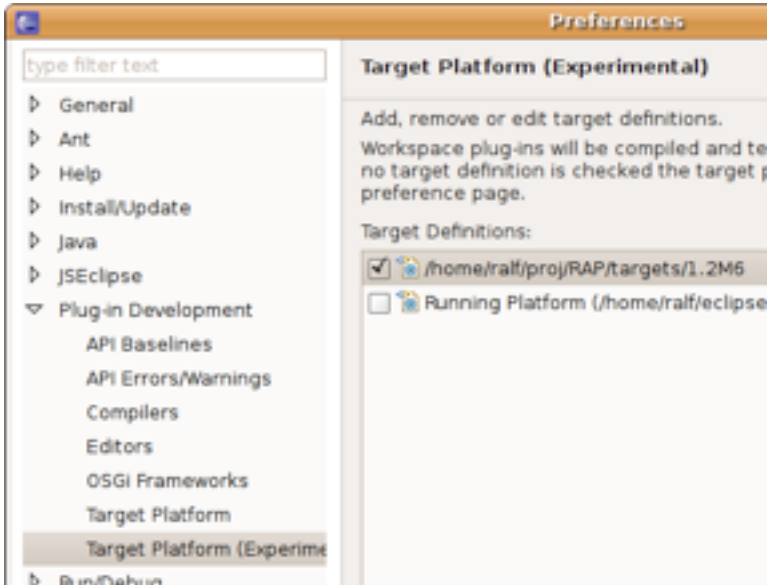
Handy Tools

Eclipse SDK

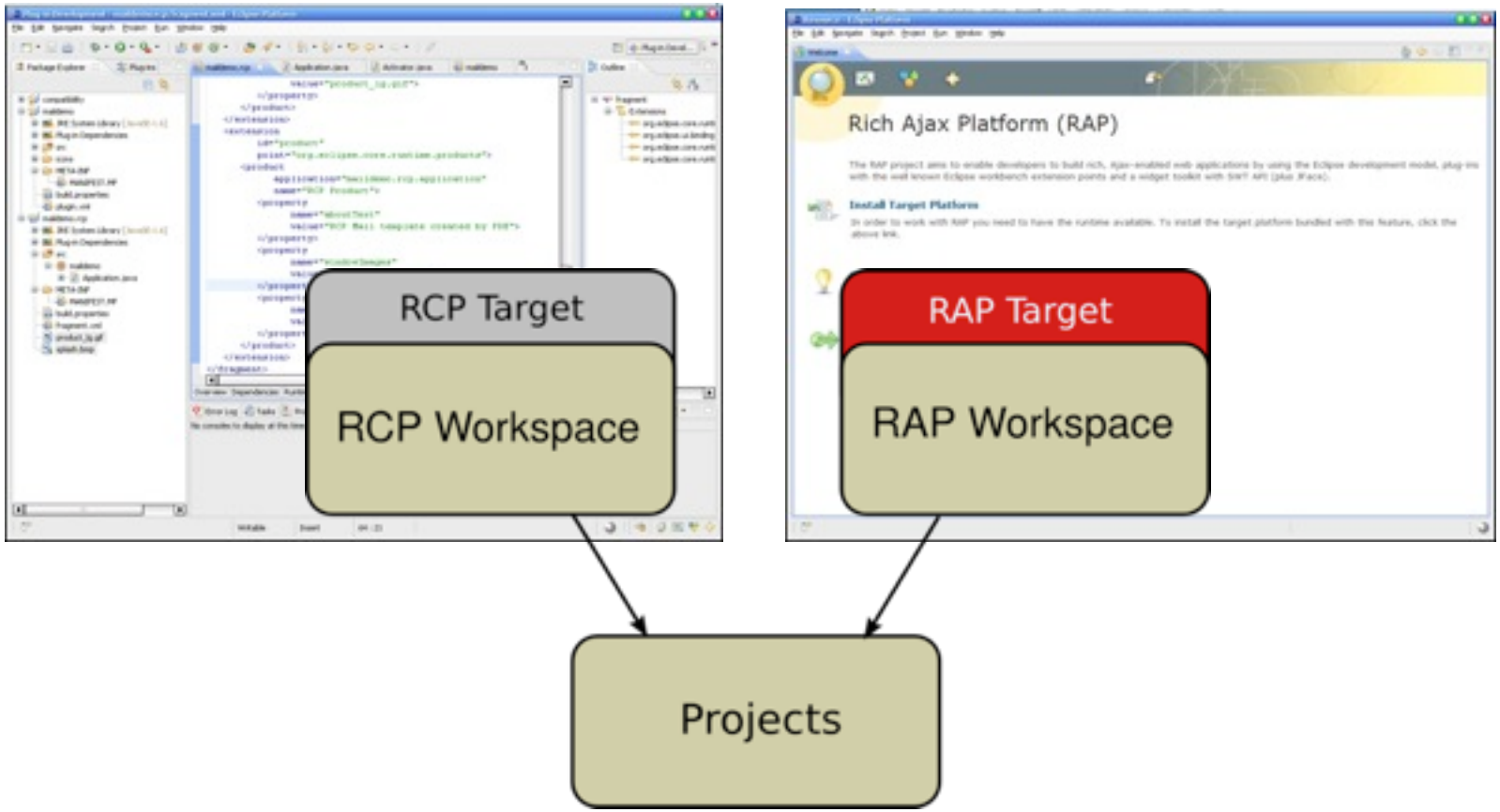
RAP SDK

includes

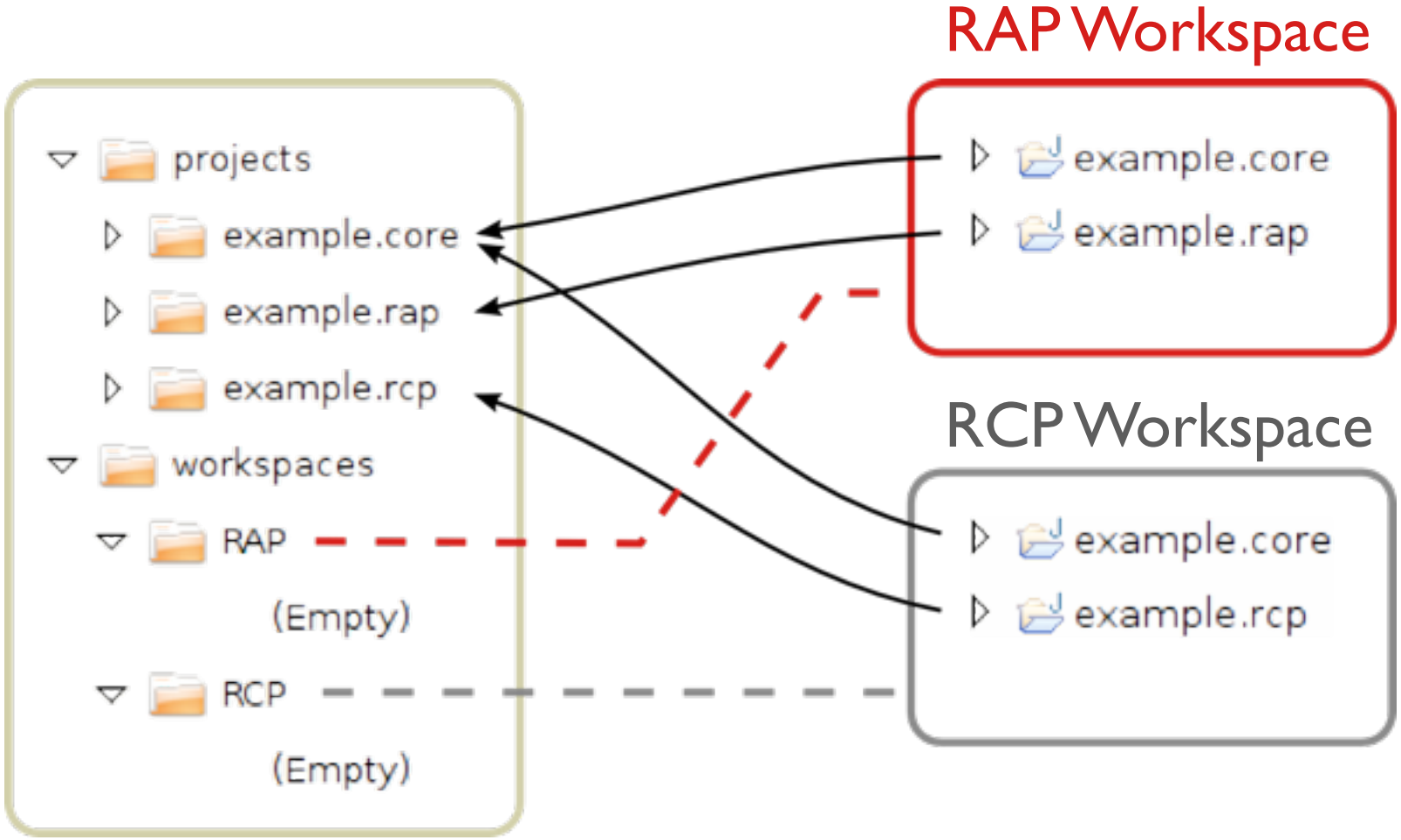
- RAP Runtime
- Tooling
- Help



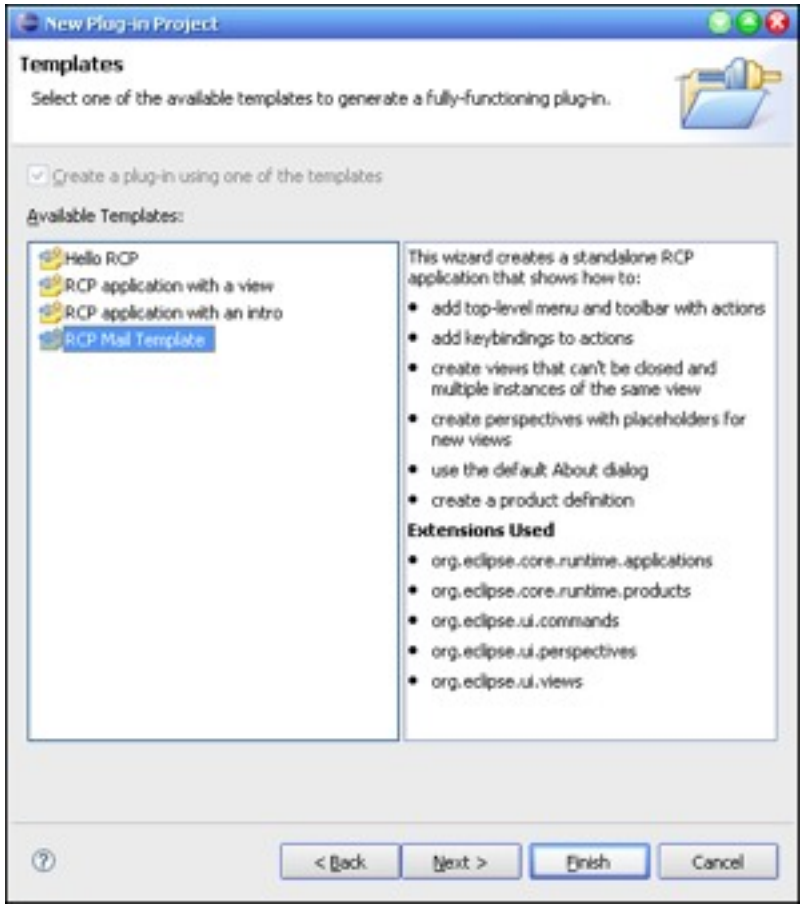
Workplace


RCP Target
RCP Workspace
Rich Ajax Platform (RAP)
RAP Target
RAP Workspace
Projects

Shared Projects

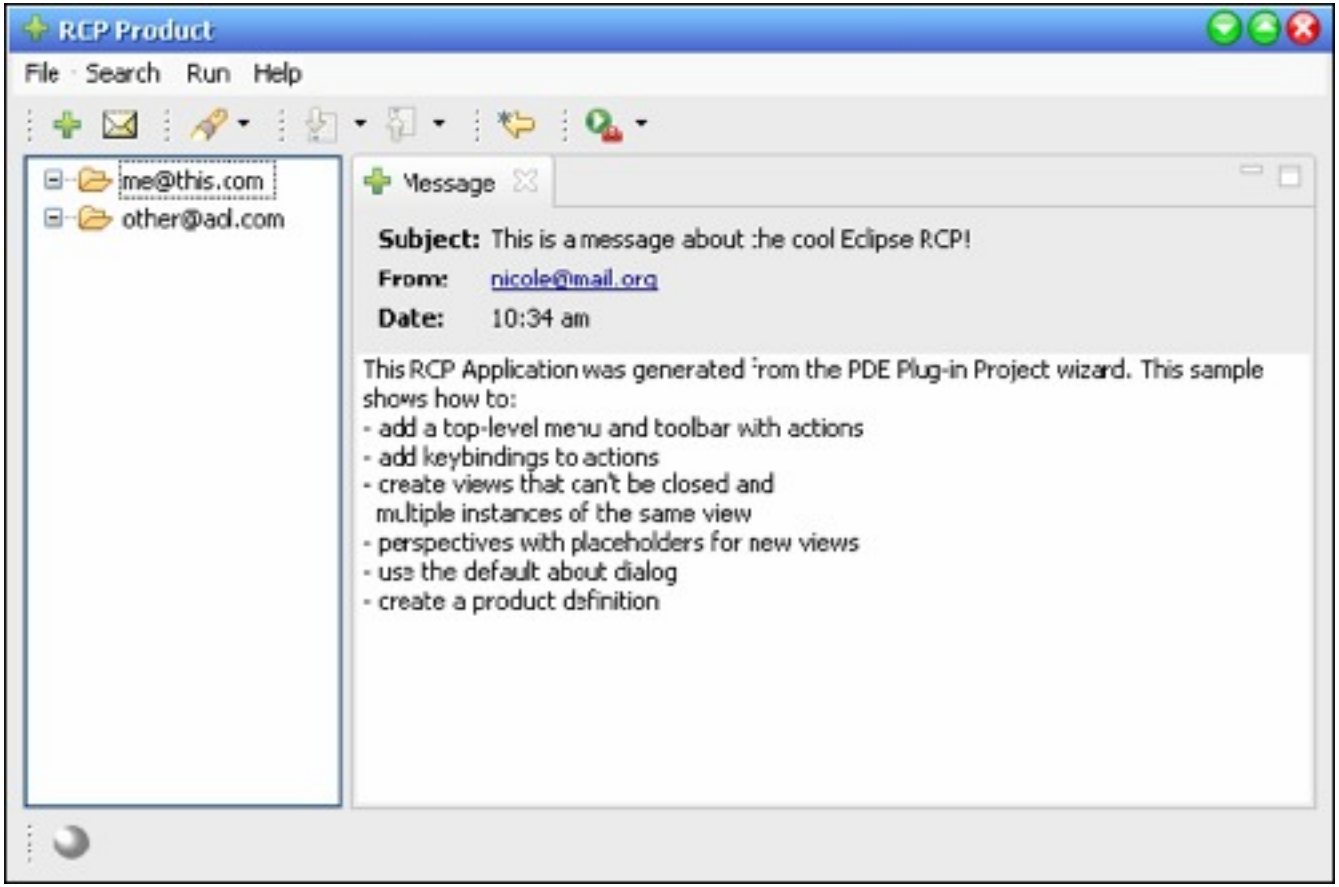


Example Application

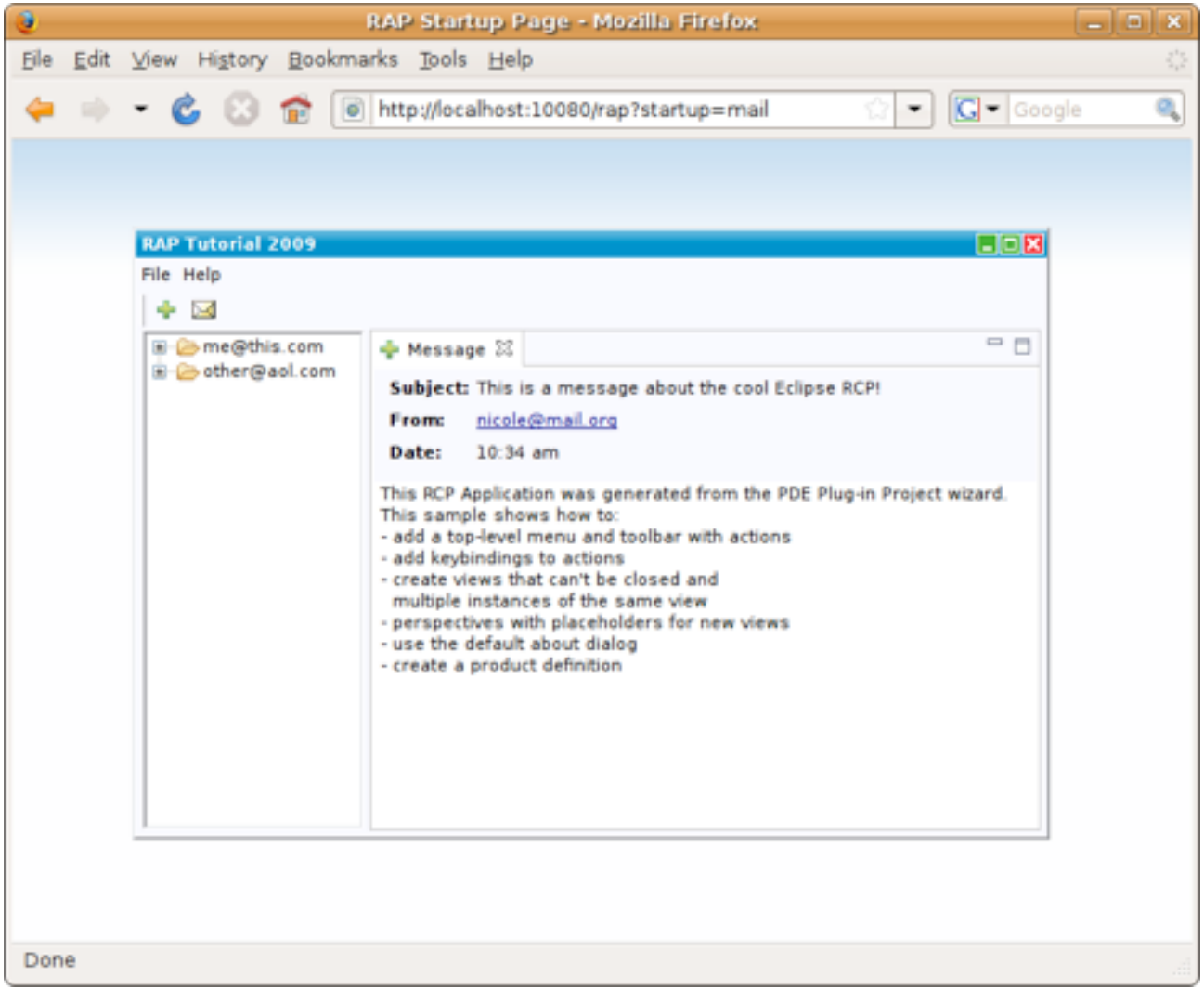


RCP Mail Demo

Runs immediately...



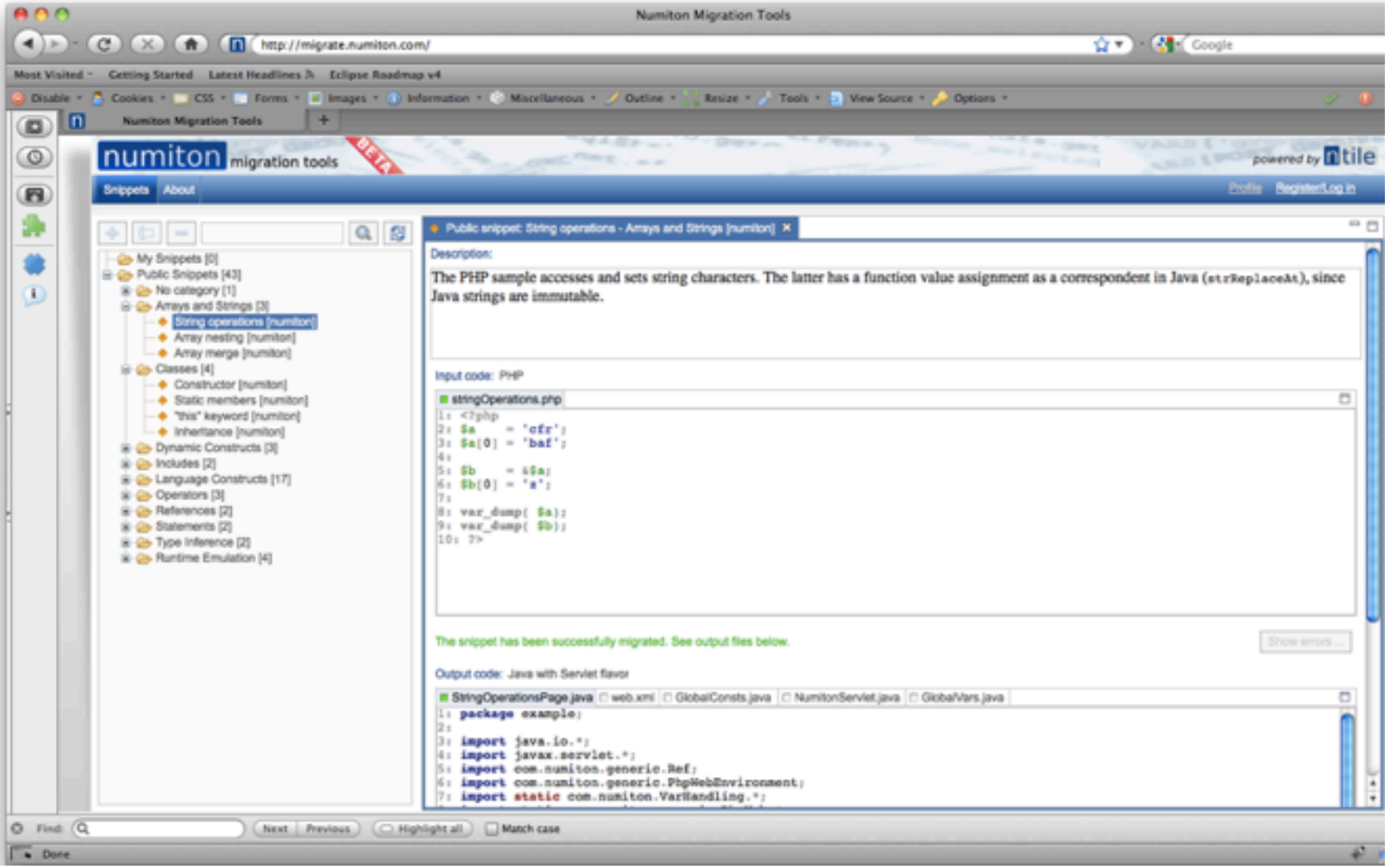
Runs in a browser...



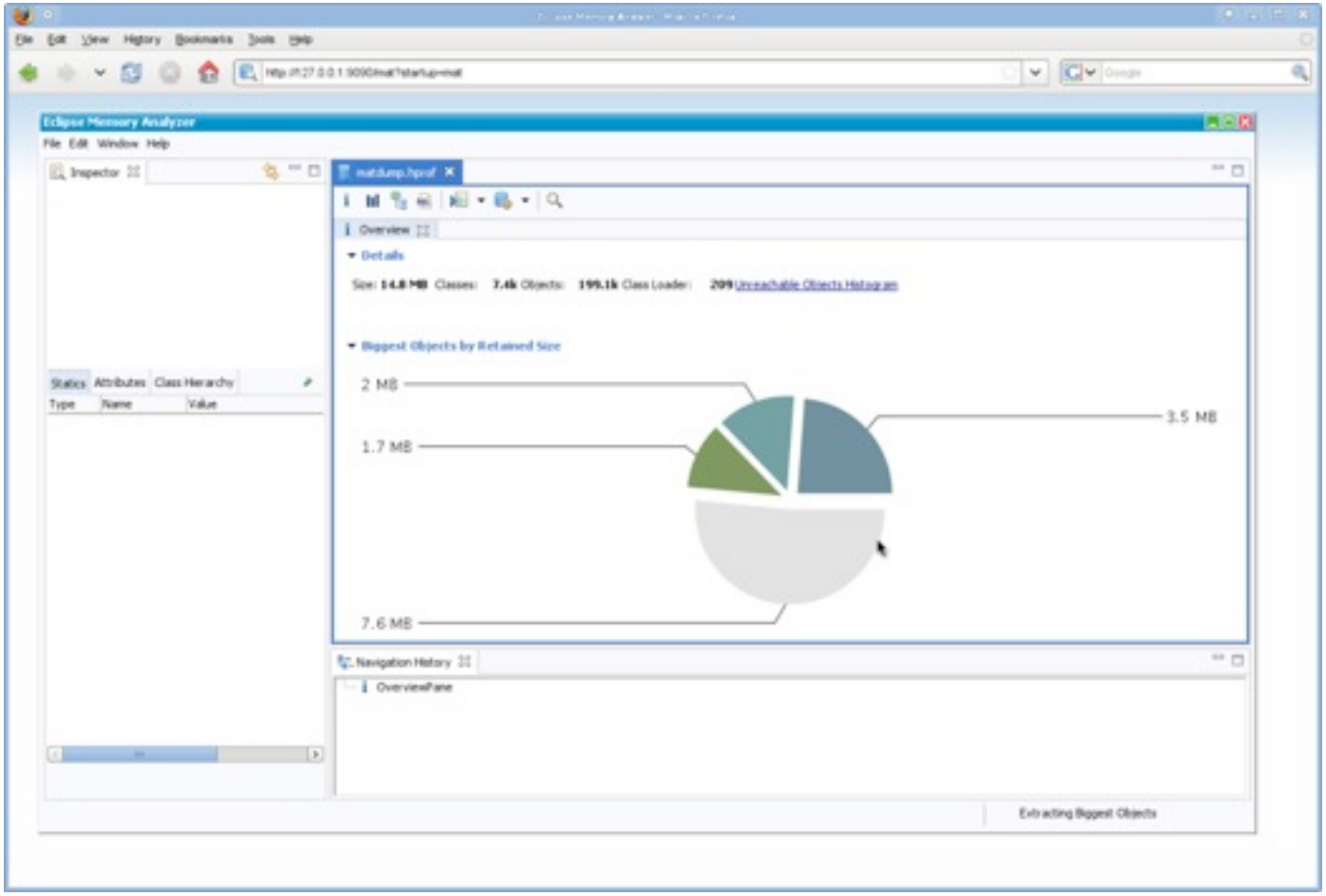
MESSAGE
Demo
DATE
SCENE
TAKE

Real World Examples?

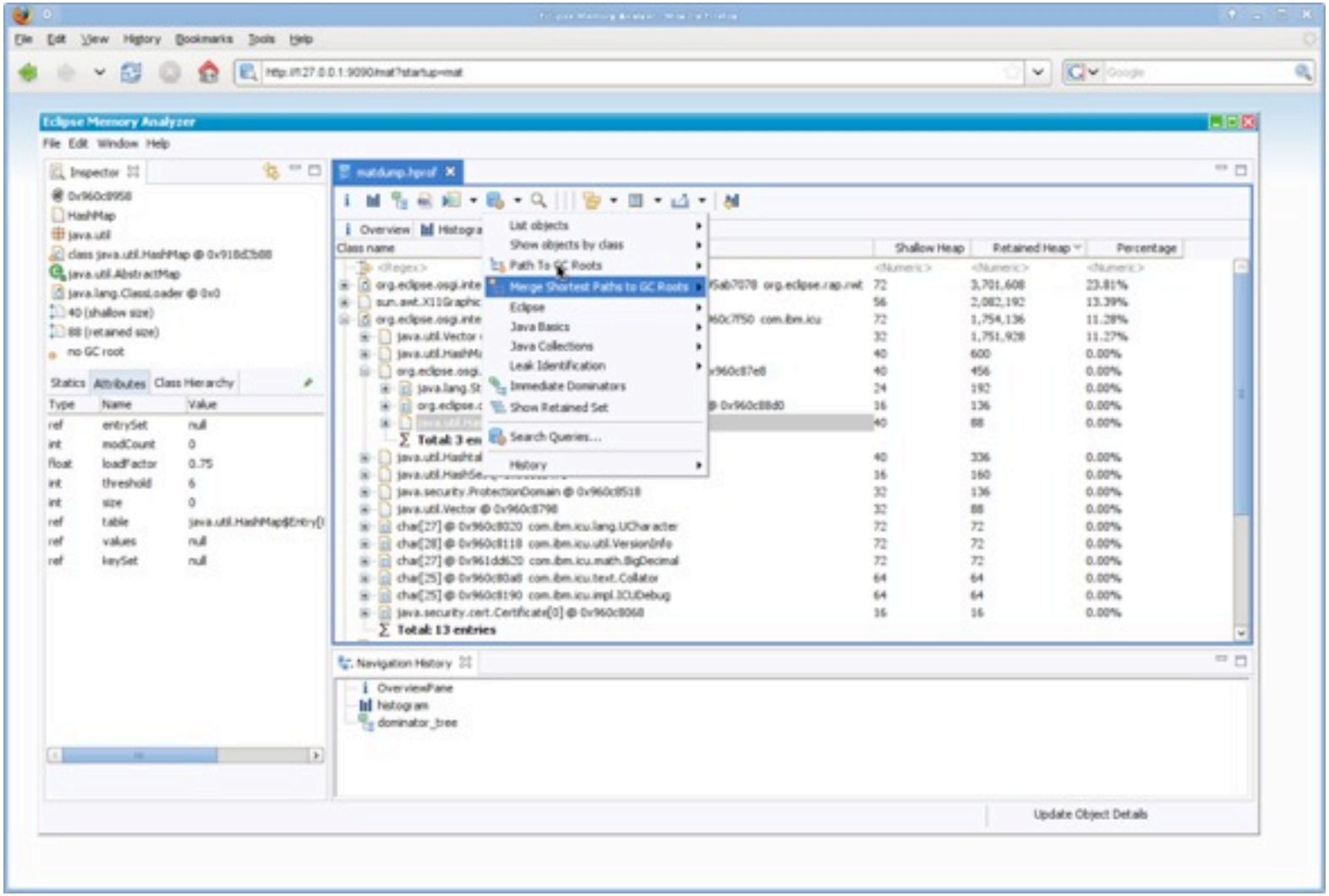
Numiton PHP->Java



Memory Analyzer I

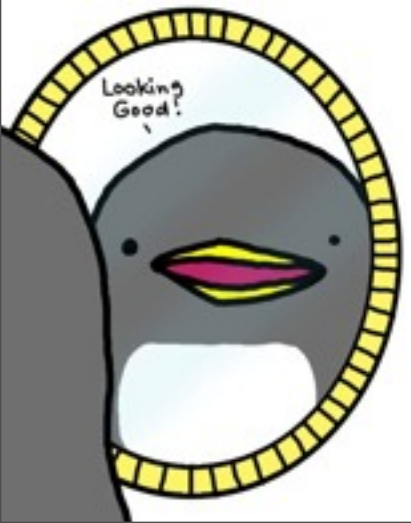


Memory Analyzer II



Conclusion

RAP enables reuse
RAP enables modularity
Give it a try!



www.eclipse.org/rap

Q&A

Thanks for listening!
Questions!?

www.eclipsesource.com
www.eclipse.org/rap