blueMarine
Sailing with NetBeans Platform

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Agenda

● Java, NetBeans and the Desktop
● Some cool Java stuff
  ● SwingLabs, TimingFramework
  ● Visual Library
  ● NASA World Wind
  ● Jini, Rio, Sun Grid
A little ad first...

- NetBeans Platform & IDE Italian Localization Project
  - http://translatedfiles.netbeans.org/index_it.html
  - Giorgio Franceschetti (giorgiofran@gmail.com)
  - it@translatedfiles.netbeans.org

- 5.5.1 daily localized build
Java, NetBeans and the Desktop
blueMarine

● Photo workflow management
  ● Pluggable single platform for everything
  ● Community-specific plug-ins
  ● 0.9.RC2 is coming

● Open Source
  ● Apache License, business friendly
From pain...

● Troubled history
  ● 2003-2005: Swing was not ready, didn't like Eclipse RCP
    ● BTW, Fabrizio is an Ex-clipse user...
  ● 2006-2007: SwingLabs, NetBeans RCP (complete re-design)
  ● Read "From Pain to Gain“, NetBeans Magazine, Issue 3
... to gain

- SwingLabs
- NetBeans
- RCP
Platforms

● blueMarine Core
  ● Foundation APIs
● blueMarine
● blueMarine Incubator
● blueBill
● blueMoon
● azureRiver
Demo (splash)
Why NetBeans RCP?

● “Cool stuff”, means complexity
  ● Go quickly from idea to prototype
  ● Integrate quickly others' stuff
  ● NIH isn't a killer-idea, but an idea-killer
Why NetBeans RCP?

- A rich and robust set of features for a “serious”, application

  - Don't write (and maintain) your own, soon-to-be-messy framework

  - It's Swing, lots of third parties' stuff (e.g. SwingLabs) can be integrated

  - And you have control on the l&f (à la Romain Guy)
Some RCP stuff

- Rich MVC
- Lookup API
- Publish and Subscribe
Demo: Explorers and Viewers
Visual Library

- General visualization library
- Support for graph-oriented modeling
- Really cool stuff
- Can be used with plain Swing apps
Demo:
Light Table,
Geo Viewer
(thanks to David Kaspar)
NASA WWJ

- Java version of NASA World Wind
  - 3D software that renders the Earth
  - NASA terrain imagery, other data sets can be plugged in (if legal stuff is ok)
  - Based on JOGL
Demo:
Geo Viewer 3D
(thanks to Patrick Murris)
Update centers

● NetBeans components
  ● can be added / removed on the fly
  ● can be versioned

● Pretty good for plugins

● Pretty good for blueMarine's concept of “communities”
blueMoon

- A plugin for amateur astrophotographers
- Developed by Emmanuele Sordini
  - www.bloomingstars.com
- Initial feature: “image stacking”
Demo: blueMoon
Parallel Computing

- Parallel Computing is a must
  - Multi Core Computers
  - Small, local mini-grids
  - Massive Grid Computing

- Mistral
  - blueMarine's graphic library
  - supports various kinds of PC
Jini, Rio

• Jini
  • SOA building *federations of services*
  • Auto-discovery
  • Now Apache River

• Rio
  • Jini-based technology
  • Provides containers, *beans*, QoS, *dynamic deployment*, monitoring and management and more
Local mini-grids
Sun Grid

- Grid computing as a service (utility computing)
  - Massive grid facility (1000 CPUs)
  - Made available to users on an as-needed basis ($1 per CPU-hour)
  - Not only Java, but with Java is much easier (e.g. NetBeans plugin)
Roadmap (perhaps)

- 0.9.RC2 (a few days) - “Giannutri”
- 0.9.RC3 (Oct 28, 2007) - “Capraia”
  - Web publishing (Flickr, Panoramio)
- 0.9.GA (Nov 30, 2007) - “Pianosa”
  - Grid computing available out of the box
  - RDF and metadata support
Roadmap (perhaps)

● 1.0.RC1 (Dec 31, 2007) - “Montecristo”
  ● Non-destructive editing
● 1.0.RC2 (Mar 2, 2008) - “Giglio”
● 1.0.GA (Apr 27, 2008) - “Elba”
Current work

- L10N
- RDF and XMP support
- Editor
- Movies
- Spinning off ForceTen
We want you

- Testing
- Developing new stuff
  - Scripting support (JavaScript? Ruby?)
  - Import from Scanner and Camera
  - CD/DVD Burning
  - The Plugin Contest
Conclusion

Medium-large desktop apps?

Get NetBeans RCP - make it better, make it quicker
Resources

- Fabrizio.Giudici@tidalwave.it
- bluemarine.tidalwave.it
- mistral.tidalwave.it
- www.tidalwave.it
- www.bloomingstars.com
- www.swinglabs.org
- graph.netbeans.org
Resources

- worldwind.arc.nasa.gov/java
- www.jini.org
- rio.dev.java.net
- www.netbeans.org/community/magazine/
- www.network.com