Hello NetBeans Platform

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NetBeans Team
NetBeans

- NetBeans IDE
- NetBeans Platform
- NetBeans Community
NetBeans Platform

• Overview

  > Framework for developing large Java desktop applications.

  > Provides
    > Runtime container.
    > APIs solving typical desktop problems.
Why Use a Rich-Client Platform?

- Pre-defined generic features.
- Code generators for custom features.
- Less boilerplate code, less cycles.
- Consistency of user interface.
- Modularity & loose coupling.
NetBeans Platform Features

- Pluggable:
  - menubar
  - toolbar
  - window system/docking framework
  - Options settings
  - JavaHelp
  - custom features

- Update Mechanism

- Modularity

- Generators for launchers, ZIP distributions, installers, and JNLP.
Examples

http://platform.netbeans.org/screenshots.html

- Boeing
- Northrop Grumman
- South African Defence Force
- Swedish Defence Force
- Banks
- Bioinformatics
- Mining
- ...
Oracle JDeveloper 11g
Learn how to:
- Model Applications
- Design Databases
- Build Applications
- Integrate Applications

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Common Basis

Runtime container handles lifecycle.

APIs provide extension points & utilities.
Demo

Let's take an existing application... and move it to the NetBeans Platform... and see the steps and the advantages.
Migrating to NetBeans Platform

• Keep all algorithms, processors, etc.
• Port everything to modules.
• Wrap JPanels in TopComponents.
• Wrap business objects in Nodes.
• Move to BeanTreeView from Jtree, etc.
• Integrate NetBeans RCP features.
• Leverage/reuse as much as you can.
• Focus on domain, not infrastructure.
• Porting is a process.
Technical Concepts

- Module
- Lookup for Loose Coupling
- Central Registry
- TopComponent
- Cookies/Capabilities
- Node
- Explorer Views
- Actions: Global/Context Sensitive
Summary

• NetBeans Platform:
  > Framework simplifying the development of modular, scalable, Swing applications.
  > Free & open source.
  > Stable & very extensive.
  > Used internationally in many companies.
Books

- Rich Client Programming
  PLUGGING INTO THE NETBEANS™ PLATFORM
  Tim Boudreau • Jaroslav Tulach • Geertjan Wielenga

- NetBeans Platform 6
  Rich-Client-Entwicklung mit Java
  Heiko Böck

- NetBeans RCP
  Das Entwicklerheft
  Jürgen Petri
Course

• Basic Course
  > Cover all the basic NetBeans APIs.
  > A lot of hands on work & coding.
  > One lecture/one workshop pattern.
  > Very practically oriented, free book.

• Porting Workshop
  > Brief overview of NetBeans APIs.
  > Step by step guided migration of your app.
  > Simple prototype ready for demo.

• 3 or 5 days, X number of engineers

Resources

- http://platform.netbeans.org/tutorials/nbm-porting-basic.html
- dev@openide.netbeans.org
- http://platform.netbeans.org
- geertjan.wielenga@oracle.com