



Netbeans 6.0

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Agenda



What is Netbeans?

What's in Netbeans 6.0?

Coollest Features

Netbeans 6.0 Demo!

What To Do/Where To Go

What Is NetBeans?

- A comprehensive, modular Java IDE
 - > Out-of-box support for Java SE, Java EE, Java ME
 - > Large set of 3rd party modules (plug-in's)
 - > Intuitive drag-and-drop development
 - > Debugger, Profiler, Refactoring, etc...
- Free and open-source based
 - > Open source since June, 2000
 - > Large community of users and developers
- A platform for building applications
 - > Rich client Java applications
 - > Rich framework of windows, menus, tool bars, actions

What's New In NetBeans 6.0?

- Code editor enhancements
- Ruby, JRuby, & Ruby on Rails support (*)
- Easier installation and upgrading
- Swing GUI data binding (+)
- Integrated profiling, profiling points (+)
- Integrated visual web features (*)
- Mobility graphical game builder (*)
- SOA & UML enhancements
- Netbeans platform enhancements

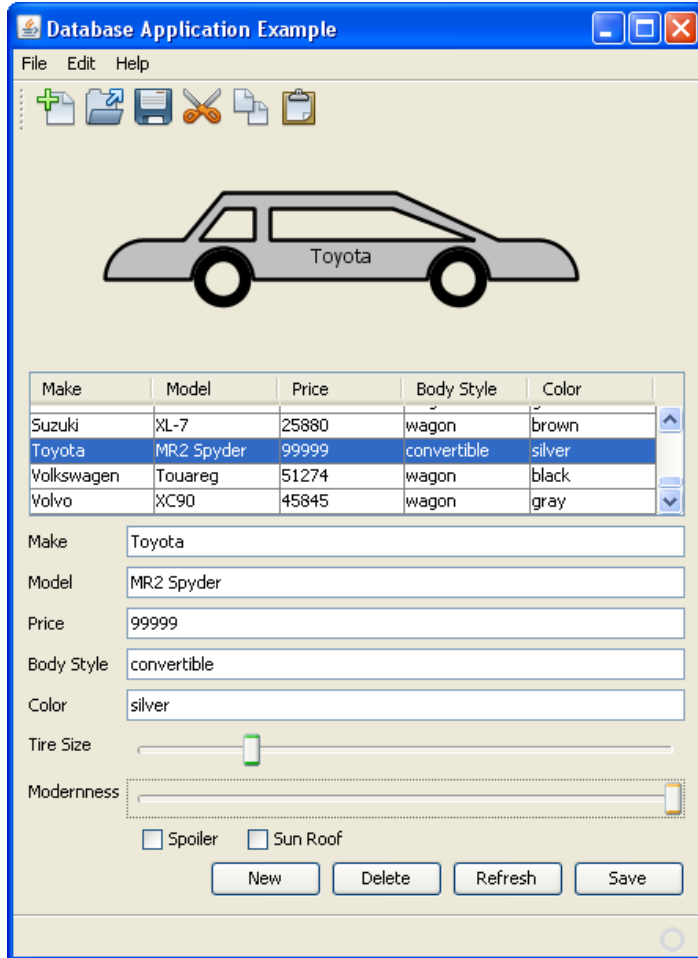
(*) Topic of an additional tech demo session

(+) Will see later in this tech demo session

Matisse GUI Builder

- Issues building GUIs without Matisse:
 - > Complex Swing APIs
 - > e.g. GridBagLayout
 - > Resizing and alignment is hard
 - > Handling of locales is hard
 - > Different OS behaviors
 - > Binding data to your GUI
- Matisse handles these for you!

Matisse GUI Builder (Demo)



Java Desktop Database App

- Swing Application Framework
- Beans Binding
- Java Persistence API
- Matisse GUI Builder

<http://www.netbeans.org/kb/60/ide-gui-db-prev.html>

Developer Collaboration

- Develop applications collaboratively
- Code-aware instant messaging
- Share entire development environment
- Multi-party file editing
- Conduct code reviews
- Collaborative debugging
- share.java.net public collaboration server

Developer Collaboration (Demo)

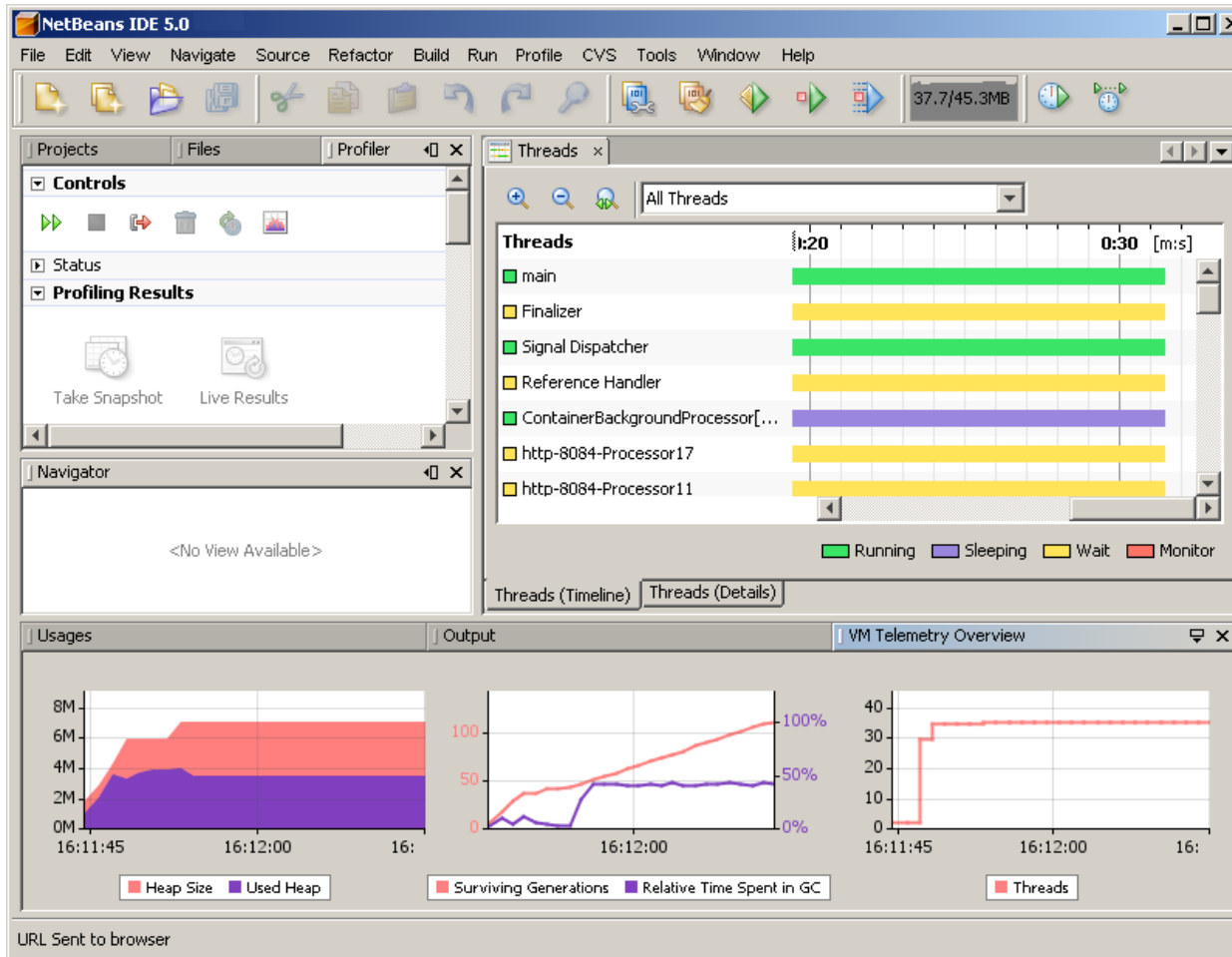
- Register for an account (free)
- Add to your contact list
- Start a conversation
- Share code with others
- Collaborative bug fixing, compilation, and execution

<http://www.netbeans.org/kb/articles/quickstart-collaboration.html>

Debugging & Profiling

- Visual debugging (breakpoints, watchpoints)
- Remote debugging of a process
- On-the-fly code fixing
- Debug JSP, Servlets, monitor HTTP Traffic
- View, suspend, resume threads
- Monitor thread activity
- CPU time & visual method call-graph data
- Object-centric view: # allocated, live, age
- JVM telemetry: heap usage, garbage collection

Debugging & Profiling (Demo)



The screenshot displays the NetBeans IDE 5.0 interface with the Profiler tool active. The main window is titled "NetBeans IDE 5.0" and shows a menu bar (File, Edit, View, Navigate, Source, Refactor, Build, Run, Profile, CVS, Tools, Window, Help) and a toolbar. The Profiler panel is open, showing the "Threads" view. The "Threads" panel displays a list of threads and their execution timelines:

Thread Name	Color	Status
main	Green	Running
Finalizer	Yellow	Wait
Signal Dispatcher	Green	Running
Reference Handler	Yellow	Wait
ContainerBackgroundProcessor[...]	Purple	Sleeping
http-8084-Processor17	Yellow	Wait
http-8084-Processor11	Yellow	Wait

The "VM Telemetry Overview" panel at the bottom shows three graphs:

- Heap Size / Used Heap:** A stacked area chart showing memory usage over time. The y-axis ranges from 0M to 8M. The x-axis shows time from 16:11:45 to 16:12:00. The legend indicates "Heap Size" (red) and "Used Heap" (purple).
- Surviving Generations / Relative Time Spent in GC:** A line chart showing garbage collection metrics. The y-axis ranges from 0 to 100. The x-axis shows time from 16:12:00 to 16:12:00. The legend indicates "Surviving Generations" (red) and "Relative Time Spent in GC" (purple).
- Threads:** A line chart showing the number of threads over time. The y-axis ranges from 0 to 40. The x-axis shows time from 16:11:45 to 16:12:00. The legend indicates "Threads" (red).

The bottom status bar shows "URL Sent to browser".

<http://www.netbeans.org/kb/55/profiler-tutorial.html>

demo



Netbeans 6.0: What to Do



- Download Netbeans 6.0
- Join Netbeans.org project
- Create collab account
- Do Netbeans tutorials
- Participate on Netbeans forums
- Write a new desktop app!
- Collaborate with your friends.

<http://www.netbeans.org>

Netbeans 6.0 Resources

- Netbeans Product Site: <http://www.netbeans.org>
 - > Download: previews, current & past releases of IDE, plugins
 - > Learning: tutorials, technical articles, flash demos
 - > Community: latest news, forums, events, mailing lists
- Netbeans Wiki: <http://wiki.netbeans.org/wiki/>
 - > Open-source documentation site for Netbeans
- Planet Netbeans: <http://www.planetnetbeans.org/>
 - > Aggregate for all Netbeans-related blogs
- Source Code: <cvs.netbeans.org/cvs>
 - > CVS source code access for Netbeans platform + IDE

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<http://www.netbeans.org>

THANK YOU!

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