

Apache NetBeans Zoran Ševarac, FON

Overview

- About NetBeans
- Migration to Apache Foundation
- NetBeans for teaching introductory programming
- NetBeans for teaching advanced programming
- NetBeans for building professional software and tools
- NetBeans for research projects
- " Download, build, use
- " Call to action: Join the community and contribute!

About NetBeans

What is Netbeans

- . NetBeans IDE (development tools)
- . Netbeans Platform (application framework)
- . Community (1 000 000 active users)

Quick History

- . University project, at University or Prague
- . Sun Microsystems
- . Oracle
- . Apache

Migration to Apache Foundation

- "Two years, incubation process
- " Legal licensing issues
- Community guides development
- Dukes Choice Award 2018
- " Offical page: http://netbeans.apache.org/
- " Who is who http://netbeans.apache.org/community/who.html
- " GitHub: https://github.com/apache/incubator-netbeans

Where we are

NetBeans is at the moment the biggest Apache project and only IDE in Apache foundation

7 million lies of code, 4.4% from all Apache projects

"Ready to get out of incubation aand become full Apache project

Teaching introductory programming

- Easy to use and understand for beginners
- "Out-of-the-box philosophy easy to start with
- Integrated Git and Maven support
- " No too many options that confuse users,
- No workspaces, perspective, project imports, ... (like Eclipse)
- Easy to use debugger
- " Integrated and easy to use profiler
- " Support for Java EE, Glassfish, Derby database
- Easy additional plugins installation through Plugin portal
- " Primary Java, but also support for PHP, C++, Python

NetBeans for teaching advanced programming

- Software engineering
 - . Architecture of complex application
 - Design Patterns in real life (singleton, observer, factories)
 - . Module system
- " Courses at FOS:

Open source software development (undr grad)
Advanced Java Technologies 2 (master)

NetBeans Platform for building professional software and tools

- " Framework for development of software desktop applications
- " Used by big companies as a base for applications in many different domains:
 - . Oracle
 - . NASA
 - . Boeing
 - . NATO
 - . European Space Agency
 -
 - . More: https://netbeans.org/features/platform/showcase.html

Provides: architectures, professional GUI components, plugin and update system, windows and menu system and all other standard GUI components based on Swing.

NetBeans for research projects

- " Free, open source, commercial friendly Apache License
- Saves a lot of development time
- Provides high quality base for building professional looking products
- Support for the latest Java technologies
- " Great for educational research projects
- " Friendly community, and available free support

Download and Run

Download zip binaries

https://www.apache.org/dyn/closer.cgi/incubator/netbeans/incubating-netbeans/incubating-10.0/incubating-netbeans-10.0-bin.zip

- Start From netbeans/bin/netbeans64.exe
- Sources download
- " https://www.apache.org/dyn/closer.cgi/incubator/netbeans/incubating-netbeans/incubating-netbeans-10.0-source.zip
- Installer coming soon
- " **nb-javac** (install on first run)

How to Build Project

" Prerequisites

- . Install Oracle's Java 8 or Open JDK v8 (nashorn issues on win)
- . Install Apache Ant 1.10 or greater (<u>https://ant.apache.org/</u>).
- Clone github repo https://github.com/apache/incubator-netbeans (ili download zip source)
- Enter the incubator-netbeans directory and type:

ant

- Once built, the IDE bits are placed in the ./nbbuild/netbeans directory. You can run the IDE from within the incubator-netbeans directory by typing ./nbbuild/netbeans/bin/netbeans on unixes (for Windows the command is equivalent).
- ant tryme to run the Apache NetBeans IDE.
- Detaljnije: https://cwiki.apache.org/confluence/display/NETBEANS/Development+
 Environment
- " Traje 37 min na i7 sa 16GB

How to Build Project from NetBeans

- "NetBeans Build System, otvoriti nbbuild
- " Run Ant Target **build-nozip**
- " Run Ant Target Target try me
- " Izbildovani projekat se nalazi u **nbbuild** dir

How To Contribute

- Sign Contributor Agreement
- " https://cwiki.apache.org/confluence/display/NETBEAN
 S/Becoming+a+committer
- Participate in discussions on mailing lists, submit bug reports, participate in testing, documenting build new features
- " https://cwiki.apache.org/confluence/display/NETBEAN
 <a href="https://cwiki.apache.org/conf
- Contributors
- " https://cwiki.apache.org/confluence/display/NETBEANS/Who%27s+Who

Important Links

Glavni sajt

https://netbeans.apache.org/

GIT HUB REPOZITORIJUM

https://github.com/apache/incubator-netbeans

Download i Build

https://netbeans.apache.org/download/index.html#source

https://cwiki.apache.org/confluence/display/NETBEANS/Development+Environment

PRIJAVE BUGOVA - JIRA

https://issues.apache.org/jira/projects/NETBEANS/issues/NETBEANS-1138?filter=allopenissues

NET CAT – program za testiranje

http://netbeans-vm.apache.org/synergy/client/app/#/

CONTRIBUTE (Submiting pull request)

https://netbeans.apache.org/participate/submit-pr.html

Mailing lista: dev@netbeans.incubator.apache.org

https://netbeans.apache.org/participate/submit-pr.html

NetBeans Wiki at Apache

https://cwiki.apache.org/confluence/pages/viewpage.action?pageId=65873923

Join the Apache NetBeans community and contribute

