



Apache NetBeans
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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 of Prague
- . Sun Microsystems
- . Oracle
- . Apache

Migration to Apache Foundation

- “ Two years, incubation process
- “ Legal licensing issues
- “ Community guides development
- “ Dukes Choice Award 2018
- “ Official 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 lines of code, 4.4% from all Apache projects
- “ Ready to get out of incubation and 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-10.0/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 (<https://ant.apache.org/>).

“ **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 unices (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**
- “ Izbuildovani 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/S/How+to+Participate>

” **Contributors**

” <https://cwiki.apache.org/confluence/display/NETBEAN/S/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 (Submitting 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

