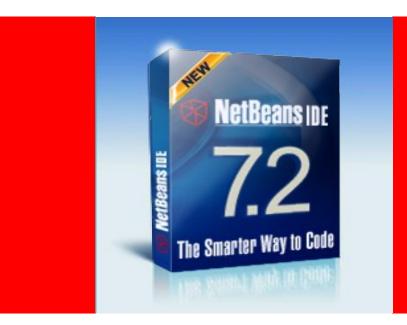
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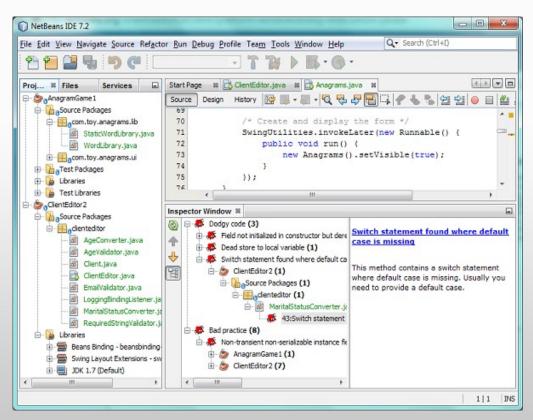
What's New in NetBeans IDE 7.2

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

What is NetBeans?



- A comprehensive, modular IDE
 - Ready to use out of the box
 - Support for latest Java specifications& standards
 - Other languages too (PHP, C/C++, etc)
 - Intuitive workflow
 - Debugger, Profiler,
 Refactoring, etc.
 - Binaries & ZIPs for Mac,
 Solaris, Linux, Windows
- Simply download and run on any OS!



What is NetBeans?





What is NetBeans?



A Thriving Open Source Community



Growing list of 3rd party modules (plug-ins)

Over 20 Million Downloads





Active blogging community

Available in many languages



Why use NetBeans?



Increase Development Productivity

Works Out-of-the-box

Freely Available

Open Source

Support for Java Standards & Platforms

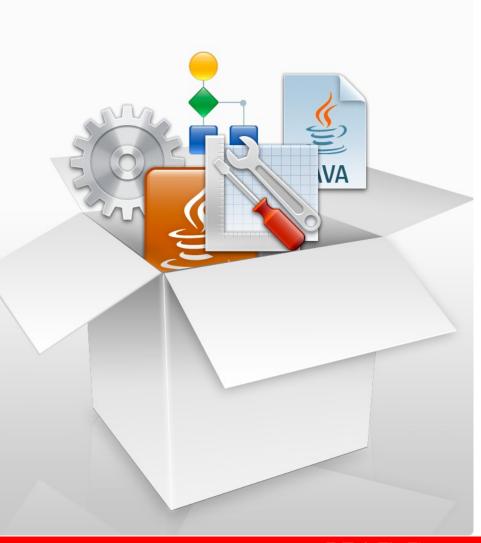
Extensible Java Desktop Framework

Powerful, Award Winning GUI Builder

Profiling & Debugging Tools

Ant & Maven Based Projects

Customizable Projects



Focus Areas of NetBeans IDE 7.2



- Improved performance
- Be more productive when coding
- Easily analyze large code bases
- Seamless development with JavaFX Scene Builder
- New features & enhancements to existing features

About the Performance Boost



- What was done in NetBeans IDE 7.2?
 - Significantly improved NetBeans startup time
 - Significantly improved scanning to sync your code with NetBeans
- Result
 - Up to 65% improvement in startup time at first startup
 - Up to 25% improvement in project scanning speed
- Example: SilverPeas.org
 Time to open very large project until ready-to-code:
 - 44 seconds in NetBeans IDE 7.2
 - 2 minutes and 37 seconds in NetBeans IDE 7.1.1

About the Performance Boost



NetBeans 7.2 beta: Faster and More Helpful

There has been significant excitement about the beta release of NetBeans 7.2. In this post, I look briefly at what makes this release so exciting (including better performance, providing more hints, and integrating FindBugs).

NetBeans 7.2 beta easy as ever and t

C/C++, and PHP b NetBeans IDE 7.2: Smarter & **Faster**



The NetBeans IDE 7.2 release, with its Beta having made available today, comes with significantly improved performance and many new features in the Java Editor, with a special focus on new static code analysis capabilities. Along with a vastly improved developer experience that helps you write good, bug-free code quickly, it also delivers improvements in other areas, notably in its support for JavaFX, Java EE, Maven, PHP, and Groovy.

Community Feedback





Robert Basic @robertbasic odd. #netbeans 7.2b feels much snappier/faster than 7.1.x Expand

1h



Romain N @romainneutron

31 May

@netbeans testing the 7.2 beta. Awesome work, no more freeze while "scanning", more responsive interface. Good job guys!



Skye Book @sbook

21m

Definitely feeling the speed improvements in NetBeans 7.2 today



Faissal Boutaounte @bfaissal

26 May

WOW #netbeans 7.2 open faster than #FireFox;). Great JOB @netbeans team, thank you!

Be More Productive When Coding Improved Java Editor



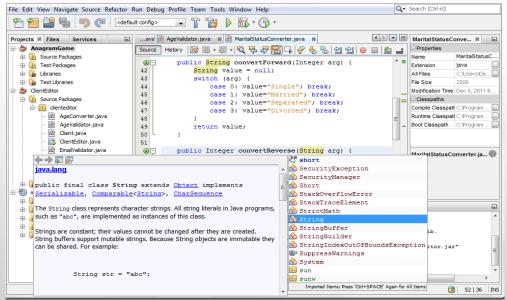
The main feature of NetBeans IDE

Developed in close co-operation

with Java SE Team in Sun and in Oracle

 First editor to support Java 7 & JavaFX 2.0

"javac" is our parser
 all language features
 always in sync with Java



New in the NetBeans Java Editor Static Analysis Tools Integration



- FindBugs Integration
 - Popular open source static analysis tool for Java

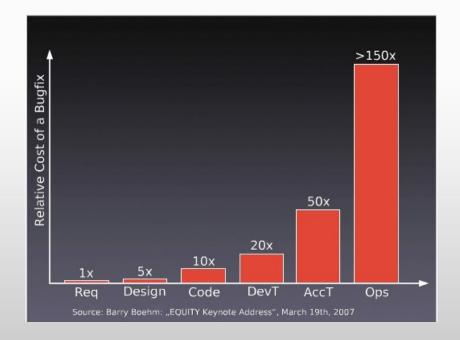


- Identifies bugs in many categories
 - Bad Practice Eg: Method may fail to close stream
 - Correctness Eg: equals method always returns false
 - Internationalization Eg: Reliance on default encoding
 - Malicious code vulnerability Eg: Expose internal rep by reference to mutable object
 - Multithreaded correctness Eg: method calls Thread.sleep() with a lock held
 - Performance Eg: Huge string constants duplicated across multiple class files
 - Security Eg: Hardcoded constant database password
 - "Dodgy code" Eg: Method ignores return value, is this OK?

Why FindBugs? Cost of Bug Fixing



- The earlier the better
- The larger the software system, the more pronounced is the cost difference across the stages



Why FindBugs? Preventing Bugs

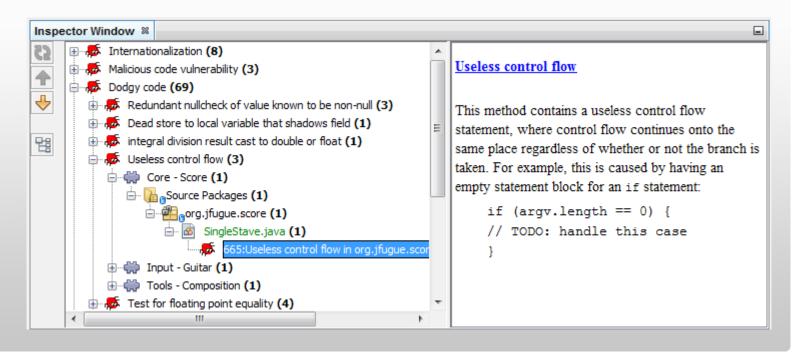


- Programming style
 - Helps in making it easier to spot bugs in code
 - Defensive Programming
- Programming techniques
 - Programed to self monitor or check consistency of internal data
- Development methodologies
- Programming language support
 - Eg. Type systems leading to compile time type checks
 - Decision to not support pointers in Java
- Code analysis
 - Inspect the code for errors beyond what the compiler catches

FindBugs Integration



- Set scope of analysis on projects, packages, or files
- Examine results and jump into editor



New in the NetBeans Java Editor

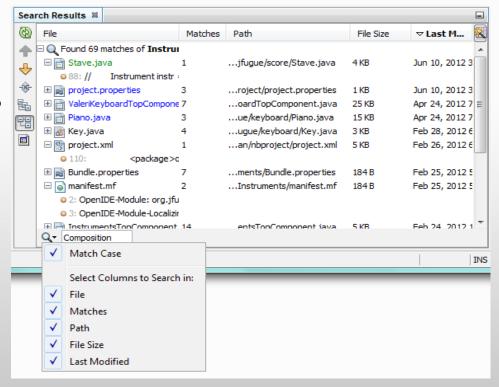


- Remove Surrounding Code
 - Quickly remove enclosing parts of nested statements
 - Source > RemoveSurrounding Code
 - Alt-Backspace

New in the NetBeans Java Editor



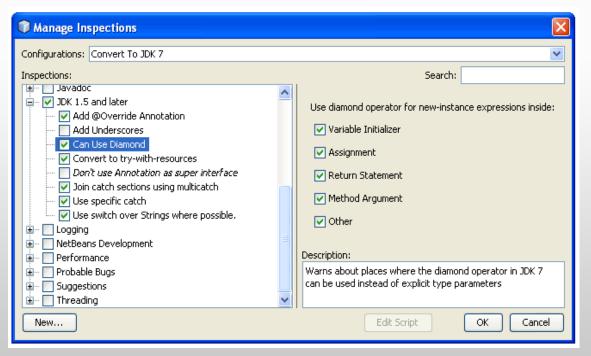
- Reformat all code across all projects, packages, files
- Better Search Results
- New package view collapses empty packages
- Export projects to ZIP and import from ZIP
- Replace constructor with builder or factory
- Multi-tab editor and change position of tabs
- And more!



NetBeans Java EditorOther Key Features



- Batch Refactoring
 - Fix problems across packages and projects
 - Upgrade projects
 completely to JDK 7
 - Customized scopes for refactoring
 - Expression language for defining rules
 - Introduced in 7.1



NetBeans Java EditorOther Key Features



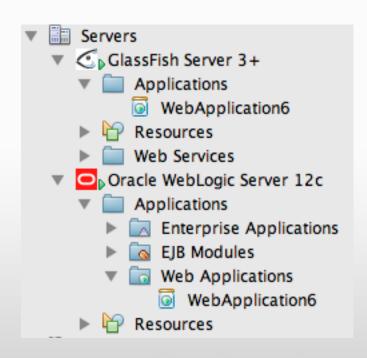
- Block Selection
 - One-click toggle button for selecting code blocks across multiple lines
 - Scenarios:
 - Delete rectangular block
 - In-place editing
 - Cut/Copy/Paste
 - Move up/down
 - Introduced in 7.1

```
🚳 CheckName.java 🗴
             Source
      History
      #/
10
     public class CheckName {
11
12
13
         private String name;
14
         private String title;
15
         private String address;
         private float width;
16
         private float height:
18
```

NetBeans Java EE Support



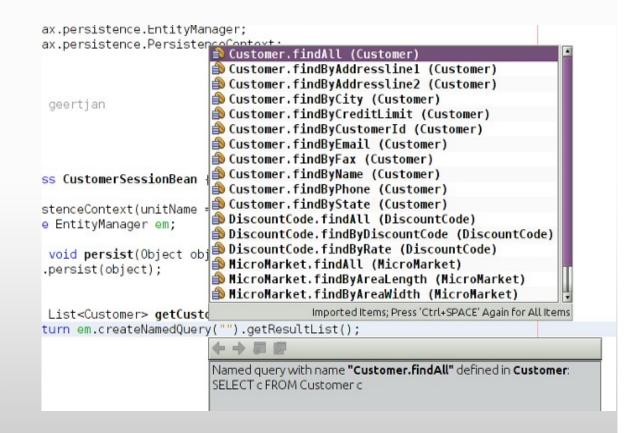
- Developed in co-operation with GlassFish Team and WebLogic Team
- Best-in-breed GlassFish integration, strong support for WebLogic and other servers
- Support for standards, e.g., Java EE 6
- Ready to use out of the box



New in NetBeans Java EE Support



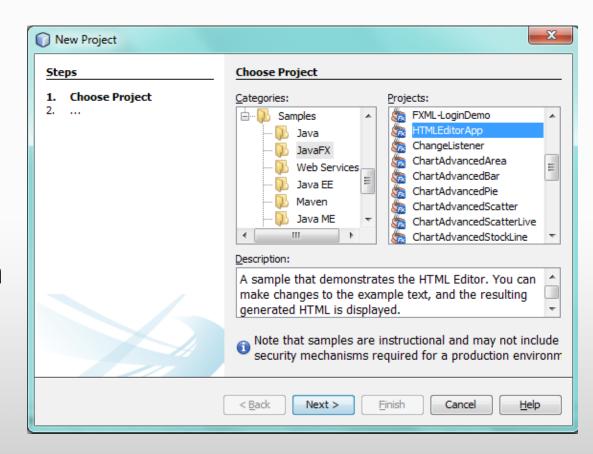
- JPA code completion in named queries and SQL queries
- PrimeFaces 3.2
- Spring 3.1.1



NetBeans JavaFX Support



- First IDE to provide
 JavaFX tools
- Developed in co-operation with JavaFX Team
- Create, edit, compile, deploy



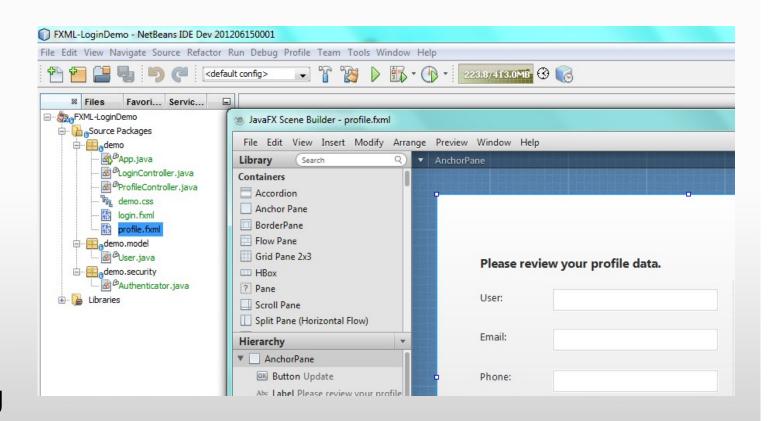
Library of ready to use samples out of the box

New in NetBeans JavaFX Support



- Open

 JavaFX
 files in
 Scene
 Builder
- Project type for JavaFX in Swing



CSS code completion for JavaFX elements

New Features & Enhancements

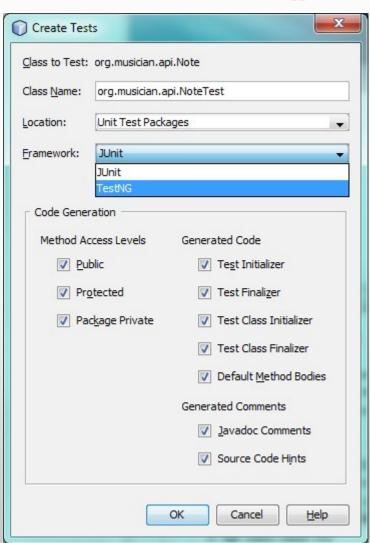


- TestNG
- Maven
- Groovy & Grails
- Debugger & Profiler
- PHP
- C++

TestNG



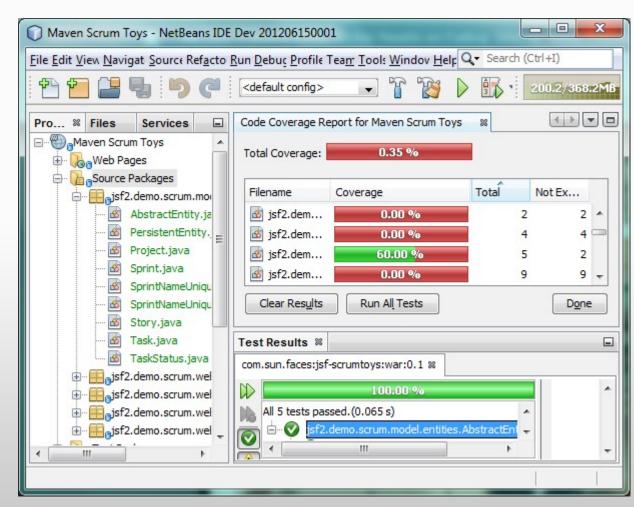
- Both TestNG and JUnit supported
- Create new tests, test cases, test suites
- Test results in output window



Maven



- Maven 3.0.4
- New JaCoCo for code coverage
- Enhanced scanning performance
- No. 1 reason users switch to NetBeans IDE



Groovy & Grails



- Groovy 1.8.6
- Faster
 Groovy
 indexing &
 parsing
- Faster
 Groovy
 code
 completion

```
Bike.groovy 🔉
            Source
      History
     package demo
                              彈 manufacturer
      class Bike {
                              metaClass
                                                         MetaClass
                              model 🎾
       String manufacturer
                             MalformedURLException
       String model
                             ∝ Map
       Integer frame
                             MapEntry
       String serialNo
                             MapWithDefault
       Double weight
                             Math.
       String status
10
                             MetaArrayLengthProperty
       BigDecimal cost
11
                             MetaBeanProperty
12
                             ∝ MetaClass
       public void setCost(Bigl
13 -
                             MetaClassImpl
14
         cost = newCost.setSca

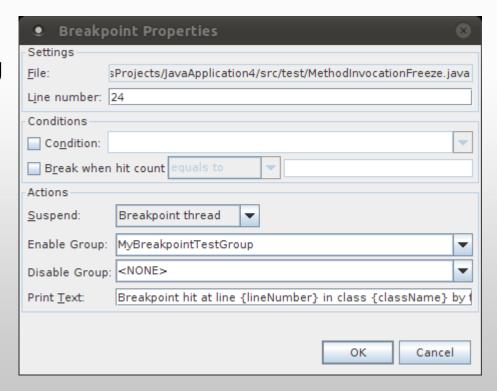
    MetaClassRegistry

15
                             MetaClassRegistryChangeEvent
16
                             MetaClassRegistryChangeEventListener
17
       public String toString( MetaExpandoProperty
18
                             MetaMethod
         return """Bike:
19
              manufacturer -- ${manufacturer}
20
              model -- ${model}
21
              frame -- ${frame}
22
              serialNo -- ${serialNo}
23
24
25
```

Debugger & Profiler



- Debugger
 - Breakpoints enable/disable other breakpoints
 - Source scanning does not block debugger stepping
 - Zoom added toVisual Debugger snapshots
 - Tree view in Variables and Watches
 - Code completion in New Breakpoint dialog



PHP 5.4



- PHP 5.4
- Support for
 - Symfony2
 - Twig
 - Doctrine2
 - ApiGen
 - Neon
- Tools
 - New hints
 - Hudson
 - PHPUnit & Annotations

```
History 🔯 👨 🔻 🗸 🔁 📑
Source
    <?php
  □ trait Foo {
         * Pretty Trait method.
        public function bar() {}

□ class ClassName {
11
12
        use Foo;
13
14 🗀
        function baz() {
            $this-≥
16
                 bar()
17
                 baz() ClassName
18 L }
                 bar
                 Pretty Trait method.
```

C++



- C++11 Standard
- Faster "Find in Projects"
- Shell Syntax in Run Command
- Remote Toolbar

```
#include <algorithm>
113
114 □ void foo5() {
115
          char s[] = "Hello C++11!";
116
          int uppercase = 0;
117
118
          std::for each(s, s + sizeof (s), [&uppercase] (char c) {
              if (isupper(c))
119
120
                      uppercase++;
121
              });
122
    L }
123
      template<class Lhs, class Rhs>
124
125 \square auto adding func(const Lhs &lhs, const Rhs &rhs = lhs) -> decltype(lhs+rhs) {
          return lhs + rhs;
126
127
```

Next Steps





1. Download Netbeans IDE



2. Create a user account



3. Participate in NetBeans community



4. Blog about NetBeans

Resources:

- NetBeans product site: http://netbeans.org
- NetBeans wiki: http://wiki.netbeans.org
- NetBeans blog aggregation: http://planetnetbeans.org

Thank You!

SOFTWARE. HARDWARE. COMPLETE.

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