



# What's New in NetBeans IDE 7.3





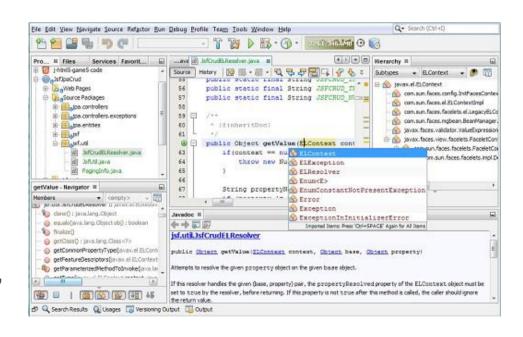


# What is NetBeans IDE?



### A Comprehensive & Modular IDE

- Ready to use out of the box
- Support for latest Java specifications & standards
- Other platforms too (HTML5, PHP, C/C++)
- Intuitive workflow
- Debugger, Profiler, Refactoring, etc.
- Binaries and ZIPs for Mac OS, Linux, and Windows



Simply download and run on any operating system!





# What is NetBeans IDE?



A Comprehensive & Modular IDE







# What is NetBeans IDE?



# A Comprehensive & Modular IDE







# Why Use NetBeans IDE?

# **Increase Developer Productivity**

- Works out of the box
- Freely available
- Open source
- Support for Java standards & other popular platforms, such as HTML5
- Deeply integrated Maven support
- Extensible Java desktop framework
- Powerful, award winning GUI Builder
- Profiling and debugging tools
- Customizable and extensible









# Focus Areas of NetBeans IDE 7.3



- HTML5 rich client-side web and mobile development
- Java Editor enhancements
- Miscellaneous Enhancements
  - Java EE
  - JavaFX
  - Maven
  - Groovy
  - PHP
  - C/C++

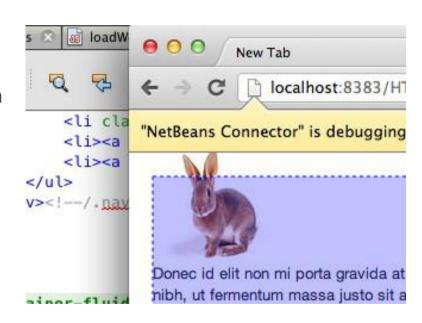




# **HTML5** Rich Client Development



- Accelerated HTML5 Development
- Live Web Preview and Responsive Web Design
- Rewritten JavaScript Editor on Nashorn
- JavaScript Debugger
- CSS3 Editor, Style Editor, and Rule Editor
- Backbone.js Client Generation from Existing RESTful Web Service Project







# **Accelerated HTML5 Development**



### The Smarter and Faster Way to Code

- Create applications from popular templates
- Open existing HTML5 applications
- Open applications from ZIP file
- Use popular tutorial samples
- New JavaScript Library Manager

Local archive file or a URL pointing to rea specified.

Download Online Template:

#### AngularJS Seed

Initializr: Bootstrap Initializr: Classic Initializr: Responsive

Description:

Site template for AngularJS projects.

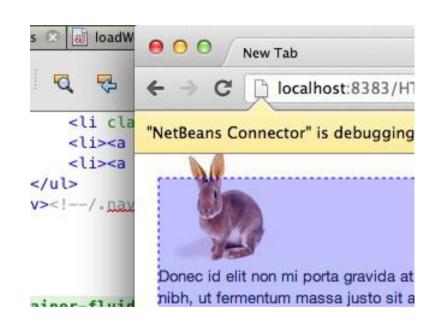




# Live Preview & Responsive Design



- Deep integration with WebKit API
- Integration with embedded browser
- Instant feedback from page design
- Select in browser, see related code in IDE, and reverse... without needing to save
- Multiple form factors, e.g., desktop or mobile, in browser







# JavaScript Editor on Nashorn



- Early build of Nashorn used for parsing
- Syntax coloring, code completion, pattern recognition, jQuery, and JSON
- JavaScript refactoring
- Many customization settings in Options window

```
$(document).readv(function() {
    $('#navBar input').click(function(event)
        //$('#navBar
                       Oclick(): jQuery jquery-api.xm
        //$(this).ad 4 -> -
        var targetId
                        .click( handler(eventObject) )
        var globalBu
                        Bind an event handler to the "click" JavaScri
        if (globalBu
                        element.
             return:
        globalButton
                              .click( handler(eventObject) )
         $('#pageBody
                             handler(eventObject): A function to
         $ ('#productNa
                             triagered.
        //console.lo
```





# JavaScript Debugger

- HTML5 applications are automatically in debug mode
- Set breakpoints in JavaScript file, on Line, DOM, Event, or XMLHTTPRequest
- Refresh the browser and immediately you can step through code
- Use Debugger windows to monitor watches, threads, and breakpoints









# **CSS3 Editors**

# **NetBeans**

- Inspect and edit CSS from CSS Styles window
- Inspect styles applied to HTML elements in Navigator window
- Change in CSS Editor is immediately reflected in the browser

index.html - CSS Styles 🔕	
Selection Document	
img – Properties	
Property	Value
▶ border	1px solid
float	left
margin-right	20px
color	#333333

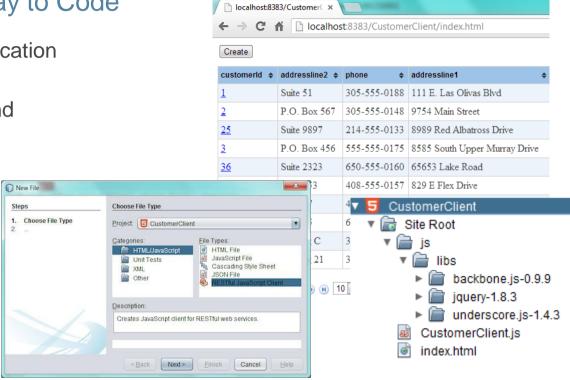




# **Backbone.js Client Generation**



- Create or open an HTML5 application
- Generate a Backbone.js frontend from RESTful web services
- JavaScript file
   with HTML file is generated
   and can immediately
   be opened in the browser
- Expose a database in an HTML5 application within 5 minutes







# **Community Feedback**



### The Smarter and Faster Way to Code



Andrea Panisson @andypanix

Feb 11

The new support for HTML5 projects in NetBeans 7.3 is really cool! bit.lv/14N8vzK



Shorty Dre 8) @StrictlyGeeky

Feb 16

I am already in love with **Netbeans** RC2. I cannot wait for the official release, #Web #Dev #Netbeans #HTML5



John Yeary @jyeary

Feb.1

@NetBeans 7.3 RC1 is smooth. Its new editor found some HTML/JS errors in existing files that were previously undetected. Very cool.



Bruno Borges [] @brunoborges

Jan 28

By the way #NetBeans 7.3 RC1 comes with Project #Easel! Debug HTML5 and JavaScript apps between NB and your browser! netbeans.org/community/rele...



JavaScript News @javascript\_news
NetBeans 7.3 will have first class support for
HTML5/JavaScript/CSS3 bit.ly/Uj4x0g



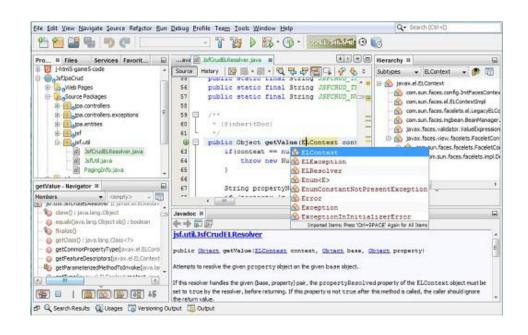


# **Be More Productive When Coding**



### Improved Java Editor

- Java Editor is main feature of NetBeans IDE
- Developed in close co-operation with Java SE Team
- First editor to support Java technologies, e.g., Java, Java EE, JavaFX
- "javac" is our parser, all language features are always in sync with Java





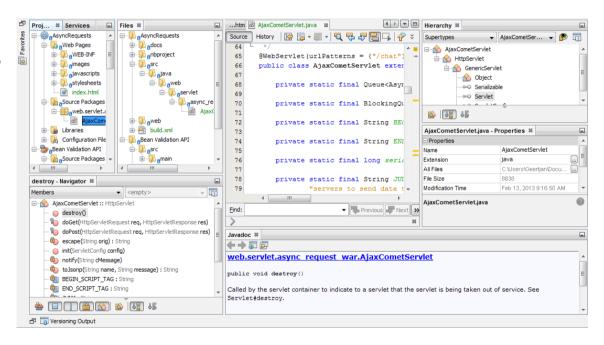


# Improved Java Editor

# **NetBeans**

# **Enhanced Code Navigation**

- Rewritten Hierarchy window for supertypes and subtypes
- New Breadcrumb Toolbar beneath editor
- New Brace Matching Bar above editor







# Improved Java Editor

#### **Enhanced Tools**

- Access to clipboard
- Specify "save actions" to be performed when files are saved
- New hints and refactorings, e.g., identify potential NullPointerExceptions

57

58 59

Find Usages filters



```
Usages >
                                           Usages of pos [274 occurrences, 149 filtered
                                             nb-iavac
                                             Annotate java
                                                  259: tree = make.at(tree.pos).
                                                        prepend(memberEnter.SuperCall(make.at(body.pos),
                                                        clazzid1 = make.at(clazz.pos).Select(make.Type(encltype),
                                                        clazz = make.at(tree.pos).
                                                        JCUnary tree = make.at(arg.pos).Unary(optag, arg);
                                                        if ((env.info.enclVar == v || v.pos > tree.pos) &&
                                                   3115: JCClassDecl cd = make.at(tree.pos).ClassDef(
                                                        classDef.pos == exit.tree.pos) {
                                                        classDef.pos == exit.tree.pos) {
                                                                                   nException() {
                                             4 The plug-in will provide an ad...
                                             5 Oracle Cloud. The O ...
                                                                                   nException (String message, Thre
                                             6 The Oracle Cloud is an enterpr...
                                                                                   use ):
                                              7 webapp-contextmen
public int test2 (String str)
                                                                           nException (Throwable cause) {
       if (str == null)
 Dereferencing possible null pointer In ("Passed null!.");
 (Alt-Enter shows hints)
       return str.length();
```

# **New Features & Enhancements**



- Java EE
- JavaFX
- Maven
- Groovy
- Profiler
- PHP
- C/C++



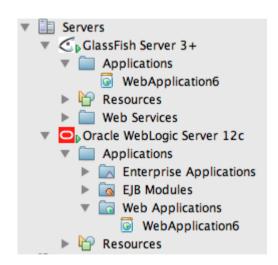


# **Support in NetBeans for Java EE**



# Out of the Box Java EE Support

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





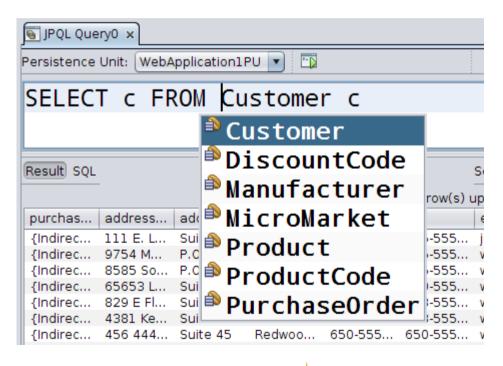


# New in Java EE

### Out of the Box Java EE Support

- JPQL Query Tester
- From RESTful Web Services to JavaScript without coding
- Groovy integration







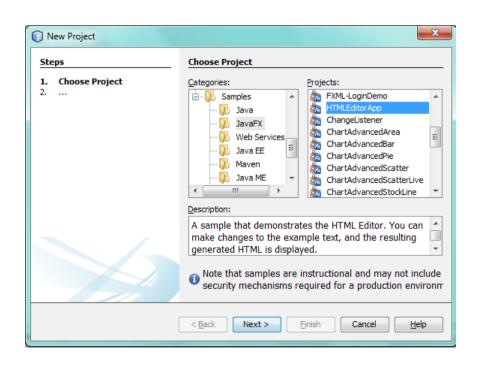


# **Support in NetBeans for JavaFX**



# Out of the Box JavaFX Support

- First IDE to provide JavaFX tools
- Developed in close co-operation with the JavaFX team
- Supports create, edit, compile, deploy cycle
- Integrated with Scene Builder
- Library of ready to use samples out of the box







# New in JavaFX



### Out of the Box JavaFX Support

- Code completion for FXML Source Editor
- Generate controllers or update existing controllers
- Partial validation with error hints
- JavaScript event handler syntax colors and code completion

```
</Label>

<p
```





# **New in Maven**

# **NetBeans**

### Out of the Box Maven Support

- Less memory needed for Maven projects
- Effective POM tab shows origin of elements
- Code Generator for POM files to generate license headers

```
effective pom tab
pom.xml [mayen-core]
        Graph
                        History
                 <?xml version="1.0" encoding="UTF-8"?>
                xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    maven-core
                   <modelVersion>4.0.0</modelVersion>
    maven-core
                  <parent>
    maven-core
                    <groupId>org.apache.maven</groupId>
    maven-core
                    <artifactId>maven</artifactId>
                                                          Originating model's ID shown on each line (when known)
                    <version>3.0.5=SNAPSHOT
    maven-core
                                                          Action on popup menu allows to jump to the definition.
                  </parent>
    maven-core
    maven-parent
                  <groupId>org.apache.maven
11
    maven-core
                   <artifactId>maven-core
                   <version>3.0.5=SHOT</version>
12
    maven
                  <name>Maver re</name>
13
    maven-core
                  <description>Maven Core classes.</description>
14
    maven-core
15
                      http://maven.apache.org/ref/3.0.5-SNAPSHOT//maven-core</url>
    maven
                  <inceptionYear>2001</inceptionYear>
    maven
     apache
                    me>The Apache Software Foundation
19
         Go to Source
                       1>http://www.apache.org/</url>
20
                    rurganization>
21
                  censes>
22
     apache
                    cense>
     apache
                      <name>The Apache Software License, Version 2.0
24
     apache
                      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
25
     apache
                      <distribution>repo</distribution>
26
    apache
                  </licenses>
27
28
                   <developers>
29
                    <developer>
    maven-parent
                      <id>jdcasey</id>
    maven-parent
    maven-parent
                      <name>John Casey</name>
```



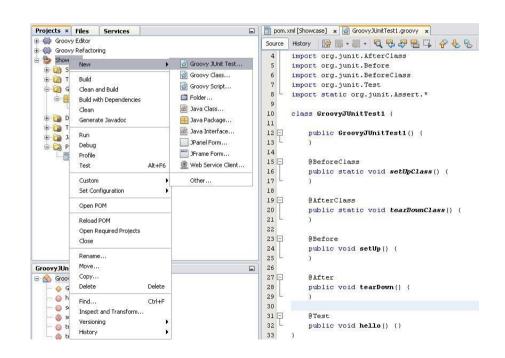


# **New in Groovy**

# Out of the Box Groovy Support

- Groovy 2.0.5
- Integration with Java EE
- Groovy JUnit
- Find Usages
- Rename Refactoring









# **New in the NetBeans Profiler**



# Out of the Box Java Profiler Support

- Simplified memory profiling
- Memory profiler provides sampled histograms of live objects
- CPU snapshots can be compared, just like memory snapshots





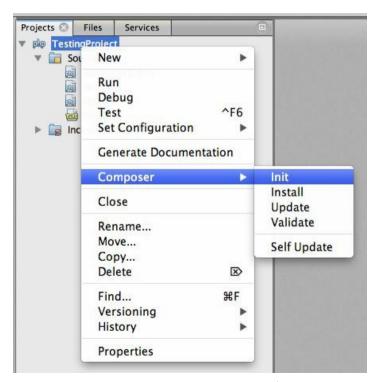


# **New in PHP**

### Out of the Box PHP Support

- Composer integration
- Detect and resolve memory problems
- Enhancements for
  - Smarty
  - Twig









# New in C/C++



### Out of the Box C/C++ Support

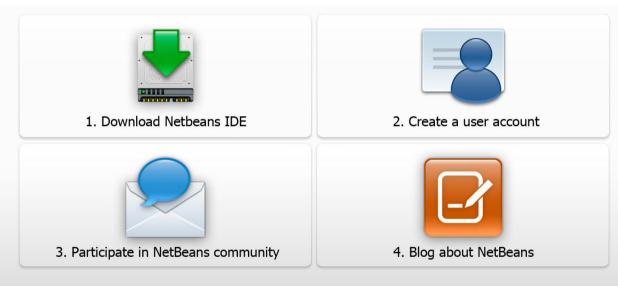
- Memory usage improvements. Requires 2x less memory for big projects.
- Parser. Speed and scalability improvements.
- Relocatable Index. Project index may be kept with the project metadata and used when project is moved.
- VCS Ready Projects. Major improvements in how projects are stored.
- Breakpoint Groupings. Per file, per project, per type.





# **Next Steps**





#### Resources:

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





# **Oracle Technology Network**

### For Java Developers

#### Resources for You

- Technical Content on <u>oracle.com/technetwork/java</u>
- Java Magazine (100K subscribers)
- Java Developer Newsletter (700K subscribers)
- Free Developer Days <u>events.oracle.com</u>
- Project space on java.net (7K+ projects)
- @java, Facebook/IloveJava

#### Path to Recognition

- Content by You!
- Send links to blogs, videos, and proposals for articles to <u>otnfeedback\_us@oracle.com</u>











