

JetBRAINS

R# ReSharper



ReSharper by JetBrains

Intelligently enhancing Visual Studio 2005

Key Features of ReSharper™

Error highlighting and quick fixes –

ReSharper analyzes and highlights errors in your code while you type, without having first to compile. It also helps you solve problems instantly, by suggesting quick-fixes for most errors.

Advanced coding assistance – to help improve your productivity, ReSharper takes care of almost all coding aspects. It not only extends and improves native Visual Studio features, such as code completion, but also enables you to quickly generate code using various templates, view documentation for types and their members right in the editor and perform code transformations using context actions.

If you are a C# developer you simply owe it to yourself to get this tool. It has dramatically made my life better (SERIOUSLY!). I put it up there with amazing tools... “

*Damon Wilder Carr
Chief Technologist and CEO
Agilefactor*

What is ReSharper™?

ReSharper from JetBrains is a state-of-the-art add-in for Visual Studio 2005 which has been designed to help your development team become significantly more productive.

ReSharper's extensive set of productivity-boosting features includes:-

- **Error highlighting and quick fixes** – ReSharper analyzes your code while you type to identify problems and is usually able to suggest a quick fix for any problems found.
- **Code generation** – quick generation of type constructors, properties, delegation methods and more!
- **Refactoring** – ReSharper has 27 built-in refactorings to help you easily and speedily improve both the structure and the maintainability of your code.
- **Code formatting** – fully customizable code style configuration, syntax highlighting and more!
- **Coding assistance** – quick and easy code completion and transformation; ReSharper intelligently extends Visual Studio's native capabilities.
- **Navigation and search** – rapid navigation and search capabilities via a single shortcut.
- **Visual Basic .NET support** – newly introduced in version 3.0, VB.NET developers can now also benefit from ReSharper's powerful features!
- **And much more** – ReSharper also provides code templates, unit testing and support for ASP.NET, VB, NAnt and MS Build Scripts.

But I'm already productive! Why should I use ReSharper?

ReSharper fully integrates with Visual Studio providing you with new and speedy ways to generate, format, analyze and fix your code directly from within Visual Studio.

ReSharper is extremely easy to use and will help boost your productivity by enabling you to work both significantly faster and much more accurately than would be possible using only plain vanilla Visual Studio 2005.

But doesn't Visual Studio 2005 already do the exact same things as ReSharper?

Yes and no. ReSharper intelligently and powerfully extends functionality that is native to Visual Studio. Take refactoring, for example. Visual Studio natively provides 7 refactorings – *extract method*, *encapsulate field*, *extract*

More Key Features

Numerous refactorings –

ReSharper now provides a much wider set of automated code refactorings than Visual Studio 2005. In total, 27 different refactorings are available that allow you to rename, move, and safely delete symbols; introduce and inline fields, variables, and parameters; and more.

Navigation and search –

whenever you need to find a certain type, field, method, or any other symbol, ReSharper provides you with a variety of ways to do it. You can find a symbol by name, navigate to a symbol declaration from its reference in the code, or find and highlight symbol usages. ReSharper also allows you to thoroughly review type hierarchies and file structures, with dedicated tool windows that are smartly integrated into Visual Studio user interface.

Unit testing –

ReSharper automatically detects whether your project contains unit tests of the supported test. It allows you to run and debug tests right from the code editor and at the same time provides you with a dedicated window where you can analyze test results and re-run unit tests.

interface, reorder parameters, remove parameters, rename and promote local variable to a parameter. ReSharper, on the other hand, provides 27 refactorings including introduce parameter, copy type, move type and change method signature.

But what else does ReSharper add to Visual Studio 2005? Read on!

What ReSharper adds to Visual Studio 2005

ReSharper extends Visual Studio's functionality with a set of cutting-edge enhancements. While ReSharper's features are too many to list in detail in this document, the following should be sufficient to whet your appetite:-

- **Error highlighting and quick fixes** – Visual Studio 2005 highlights compiler errors, but only after you compile. ReSharper takes things to the next level by analyzing your code while you type, and highlighting errors before you compile. But that's not where it ends: ReSharper uses different highlighting to indicate different types of errors. Undefined symbols are highlighted in red, all other errors are underlined in red. Warnings about dead code, such as redundant using directives and unused private methods, are highlighted in grey.

Hover the mouse over any highlighted or underlined text, and you'll see some additional information relating to the error.

Errors can be easily and instantly fixed simply by hitting **Alt+Enter** or by clicking on the light bulb symbol, which appears to the left of the error, and selecting the desired fix:-

ReSharper's warnings about dead code are completely customizable; any type of warning can be easily switched on/off.

Additionally, ReSharper makes it possible to instantly see whether your project contains errors. Simply check the color of the status bar: if it's red, there are errors in your code.

To find errors, it's not necessary to manually scroll through and scan your code. ReSharper adds a sidebar to Visual Studio's UI in which all errors are listed. To navigate to a section of code which contains error, you simply need to click on the appropriate entry in the sidebar. And, to make navigation even faster, you can move between errors simply by hitting **F12** (to go the next error) or **Shift+F12** (to go to the previous error).

The ability to quickly identify and fix errors might well be sufficient in itself to convince you to invest in ReSharper but, should you need more reasons, keep on reading!

- **Refactoring** – ReSharper includes a range of powerful refactorings. To apply a refactoring, simply select it from the Refactor Menu or, to see an intelligently targeted context menu listing with only those refactorings which can be applied to the current position or selection, you

Key Features

ASP.NET editing –

now you can edit ASP.NET files with both pleasure and increased productivity. Take advantage of error highlighting, quick-fixes and context actions, coding assistance, navigation, refactoring, and other features. With ReSharper, you can easily edit and refactor C# code within ASP.NET, as well as Web control properties and events, data sources and content placeholders.

NAnt and MS Build Scripts Editing –

advanced editing capabilities, previously available only for C#, are now extended to NAnt and MSBuild scripts. As soon as you open a build script file in Visual Studio.NET with ReSharper installed, full coding assistance is available immediately.

VB features –

ReSharper now extends its smart features to Visual Basic code, including ASP pages written in VB. These include all of ReSharper's navigation and search features, coding assistance, refactorings, as well as syntax highlighting, quick documentation lookup, and more.

can hit **Ctrl+Shift+R**. Some of the refactorings bundled with ReSharper include:-

- **Move type:** enables you to quickly move a class, struct, delegate or enum to another namespace or isolate in a separate file.
- **Introduce parameter:** using this refactoring you can quickly add a new parameter to a function from a local variable or a constant inside its body with all calls being automatically updated.
- **Make method non-static:** enables you to easily convert a static method into an instance method with all calls being automatically updated.
- **Pull members up:** using this refactoring you can quickly move class members to a superset or interface.
- **And more:** in fact, ReSharper includes 23 more refactorings all of which can be used to help you simplify your code and make it significantly more maintainable. Furthermore, ReSharper 3.0 introduces cross-platform refactoring: if you refactor in C#, the refactoring will be applied in VB.NET too.
- **Code Templates** – enable you to automatically generate commonly-used blocks of code. Fast! ReSharper provides a number of templates which help you work more efficiently:-
 - **Live Templates** – enable you to speedily and automatically insert the most frequently used constructs into your code. Live Templates are a supercharged version of Visual Studio's Code Snippets. But unlike Code Snippets, Live Templates predict the variables, types and fields which could be used and present those to you in the form of a list. With Live Templates you usually don't need to type anything at all – you simply make a selection from the list.
 - **“Surround with” Templates** – simply select an expression, statement or block of code, and “Surround with” Templates can be used to quickly and easily enclose the selection with try/catch, if/else or other construct.
 - **File Templates** – enables you to speedily add a file containing a piece of predefined code to a project

The templates included with ReSharper are completely customizable and can be edited to match your specific needs. Additionally, you can easily create your own templates and share those templates with other members of your development team.

- **Code formatting** – ReSharper takes code formatting to a whole new level. Format your code according to a predefined style setting, optimizing *using* directives, remove redundant *this* directives, arrange *modifier keywords* and a whole bunch more! ReSharper makes it a snap to beautify and simplify your code!

Pricing

Starting from version 3.0, ReSharper is available in 3 editions:

- Full edition
- C# Edition
- VB.NET Edition

Each of them is priced separately, and with respect to the license type: Commercial, Personal or Academic.

For more detail, please check the Licensing page of ReSharper 3.0.

- **Coding assistance** – ReSharper intelligently and powerfully extends Visual Studio's coding assistance capabilities with:
 - *Code completion* – context sensitive pick lists can save you hours of typing by enabling you to quickly insert values into your code. *Basic completion* completes the names of currently visible types, *type name completion* completes the names of *types* located anywhere in the solution (whether visible or not) and *smart code completion* filters the list of *C# types, methods, and variables* to match the expected *type* of an expression when completing code.
 - *Context actions* – to quickly implement small code transformations.
 - *Parameter info* – extends the similar functionality of Visual Studio by displaying all possible parameters and method signatures and graying out incompatible signatures as new arguments are added.
 - *And more* – ReSharper further extends the functionality of Visual Studio's auto-completion with bracket matching, brackets and quotes auto-insertion, comment and uncomment code, extend or shrink selection and duplicate line block.
- **Visual Basic .Net Support** – many of the powerful features outlined above are now also available to VB.NET developers, including:-
 - Type and smart code completion.
 - Many cross-language refactorings.
 - Coding assistance
 - And more!

Summary

This document provides only a brief outline of some of ReSharper's innovative and easy-to-use features.

To find out more about how ReSharper can help improve your team's productivity, either visit our website or, better yet, download a copy of ReSharper and take it for a test drive. You'll soon be wondering how you ever lived without ReSharper!

Try ReSharper today

Like all JetBrains' products, ReSharper can be downloaded from our website and tested for a period of 30 days. No cost. No risk.

About JetBrains

In February 2000, JetBrains was founded by three engineers with years of front-line experience in the programming industry. Since the launch of its first award-winning product, IntelliJ IDEA, JetBrains has been recognized by industry leading media figures and development professionals for its brilliant innovations in the Java development tools market.

Today, JetBrains is a technology-leading software development company with an international presence and rapidly surging annual sales. Headquartered in Prague, Czech Republic, JetBrains maintains two research and development laboratories, one in St. Petersburg, Russia and the other in Boston, Massachusetts, USA, plus three sales and support offices in North America. JetBrains restricts its teams to high-level professionals with rich experience developing for world-class companies in a diverse array of software development projects.

Since introducing its award-winning IntelliJ IDEA, JetBrains has been dedicated to creating highly intelligent, easy-to-use, up-to-date productivity-enhancing tools for software development professionals, with an emphasis on the advancement of software development technologies.

Our Mission

To apply advanced technologies in the software development industry, and to provide the software market with most intelligent tools that help developers and users of such software work faster, better and more efficiently than ever before.

For more information

To find out more about JetBrains and our products, please visit our website at www.jetbrains.com or e-mail us at info@jetbrains.com.