ReSharper

The most intelligent extension for Visual Studio

Key Facts

ReSharper is the leading productivity tool for .NET developers, which fully integrates with Microsoft Visual Studio. It makes thousands of .NET developers worldwide more productive by providing code inspections, automated refactorings, blazing fast navigation, and coding assistance.

Key Benefits

ReSharper advocates best development and design practices with global cross-language code refactorings, hundreds of code transformations, code formatting and cleanup. ReSharper ensures continuous .NET code quality inspection by instantly highlighting errors and code smells in your solution and provides multiple automated quick-fixes. Superior unit testing tools, navigation and search features, automatic code generation and templates complete the picture of a cutting-edge productivity tool that empowers any .NET developer.

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Key features

Full integration with Visual Studio 2010, 2012, 2013, 2015, and 2017.

Support for a variety of **languages and technologies**, including C#, VB.NET, JavaScript, TypeScript, CSS, HTML, XML, XAML.

Great value for developers working with various Microsoft development **frameworks and platforms** such as ASP.NET, ASP.NET MVC, ASP.NET Core, WinForms, WPF, WCF, Windows Phone, Silverlight, and SharePoint.

Code quality and solution-wide analysis. ReSharper executes over 2000 code inspections on the fly, letting you instantly see whether a file or the entire solution contains any errors, warnings, or bad practices.

Incremental build tool. ReSharper Build extends Visual Studio's native build system to safely skip rebuilding projects that don't need updating, and makes Visual Studio run builds while staying responsive.

Navigation and search. You can jump to any file, type, or member in your code base, or navigate from a specific symbol to its usages, base and derived symbols, or implementations.

Over 50 solution-wide **automated refactorings** targeted at reducing duplication, building efficient inheritance hierarchies, maintaining a clean project structure and otherwise implementing best development practices.

Code generation and templates. Boilerplate code such as type constructors, properties, comparers, dispose pattern implementations, delegating or equality members can be created in no time. In addition, ReSharper provides live templates with an extensible collection of intelligent code snippets, surround templates to wrap code blocks, as well as file and multifile templates to quickly create new project items.

Code cleanup helps apply team-wide code formatting and ordering preferences, get rid of redundant code, and optimize namespace import directives.

Dependency analysis tools. ReSharper builds dependency graphs of types and projects in your solution, all without compiling anything. Project dependency snapshot can be saved and then compared with new solution states at various stages. ReSharper also lets you create assembly dependency diagram from any number of assemblies and explore how they reference each other.

Internationalization. ReSharper greatly simplifies working with localizable resources by providing a full stack of features for resx files and resource usages in C#, VB.NET, ASP.NET, and HTML.

Exploring library code. With ReSharper, you can fetch original source code from source servers, decompile libraries that have no debug information available, or reconstruct library types' structure from metadata — all this without leaving Visual Studio.

Unit testing. ReSharper automatically detects NUnit, xUnit, and MSTest unit tests in your projects, helping you manage, run, and debug them. Other unit testing frameworks such as MSpec are supported via ReSharper extensions.

Extensibility. The NuGet-based Extension Manager makes discovery, installation, and removal of ReSharper extensions (full-fledged plug-ins, sets of templates or SSR patterns) extremely easy.

Command-line version of ReSharper. In your CI server or version control system, you can use a free standalone tool with full set of ReSharper inspections and additionally a duplicate code finder.

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