# RD Rider

## Feature-rich and fast cross-platform .NET IDE based on ReSharper and IntelliJ Platform

## Key facts

Rider is a cross-platform .NET IDE that helps you develop ASP.NET, .NET Core, .NET Framework, Xamarin and Unity applications. Rider uses UI and multiple features of IntelliJ Platform, which powers IntelliJ IDEA, WebStorm, and other JetBrains IDEs used by millions of developers. On top of that, Rider adds navigation and search, refactorings, code quality inspections, unit testing and more features that help read, write and navigate large .NET codebases. Most of these features are shared with ReSharper, a popular Visual Studio plugin by JetBrains.

## Key benefits

Rider is designed to be smart and fast. Our top priority is to deliver a highly responsive IDE while at the same time enabling greater .NET code intelligence than Visual Studio. Available on Windows, Mac, or Linux, Rider provides .NET developers with a consistent cross-platform environment, whether they're developing desktop applications on a Windows workstation or hacking ASP.NET Core web applications on their MacBook Pros.

## System requirements

- Windows 10, 8.1, 8 or 7 (64-bit distributions only)
- OS X 10.10 or higher (64-bit distributions only)
- Linux (64-bit distributions only)
- 4 GB free RAM or higher
- Using SSD instead of HDD is recommended for optimal performance

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# Key features

**Cross-platform:** available on Windows, macOS and Linux with a single product license.

Support for **most languages used in .NET development**: C#, VB.NET, F#, ASP.NET's Razor syntax, XAML, XML, JavaScript, TypeScript, JSON, HTML, CSS, and SQL.

Supports a wide range of **frameworks and platforms** such as .NET Framework, .NET Core, and Mono-based projects. This lets you develop a variety of applications including .NET desktop applications, services and libraries, Unity games, Xamarin apps, and ASP.NET and ASP.NET Core web applications.

**Continuous code quality analysis.** Rider provides over 2500 on-the-fly code inspections to detect compiler and runtime errors, suggest corrections and improvements before you even compile, and help resolve most of the discovered code issues automatically.

**Powerful navigation and search.** Jump to any file, type, or member in your code base, and find usages of any symbol, including cross-language and string literal usages. Navigate from a symbol to its base and derived symbols, extension methods or implementations. Multiple results can be displayed in the Find Results window, which provides multiple ways to use the search results.

Rider provides an extensive set of **automated solution-wide code refactorings** focused on reducing duplication and keeping your project structure neat and clean.

A **built-in decompiler** allows you to decompile third-party libraries to C# in a regular editor tab and easily navigate decompiled code as you normally navigate your source code, as well as find and highlight usages.

**Code generation and templates.** Rider provides a variety of code generation actions to instantly produce boilerplate code such as type constructors, properties, override members, and delegating and equality members, with hundreds of context actions. Furthermore, live templates help you create smart, quickly deployable snippets for code structures that you write most frequently.

**Unit testing.** Rider lets you run and debug unit tests based on NUnit, XUnit, or MSTest in applications targeting .NET Framework, .NET Core and Mono. You can explore tests, group them in different ways, break them down into individual sessions, see test output, and navigate to source code from stack traces.

Rider includes an **integrated debugger** that supports .NET Framework, .NET Core, Mono, Xamarin, Unity, ASP.NET, and ASP.NET Core, and lets you debug full applications or modular unit tests. You can create multiple debug configurations, attach to external processes, set and manage breakpoints and breakpoint conditions, step into, over and out, run to cursor, set watches, evaluate expressions, and explore threads.

Integration with **Version Control Systems** including Git, GitHub, Subversion, Mercurial, Perforce, CVS, and TFVC.

**Databases and SQL.** You can work with SQL and most popular database management systems such as Oracle, PostgreSQL, MySQL, SQL Server, all without leaving Rider. Connect to databases, edit schemas and table data, run queries, and even analyze schemas with UML diagrams. Rider's rich SQL editor comes with syntax highlighting, smart code completion, on-the-fly code analysis, code formatting, and navigation.

Rider's **rich plugin ecosystem** includes a wide array of plugins originally developed for IntelliJ Platform and ReSharper.