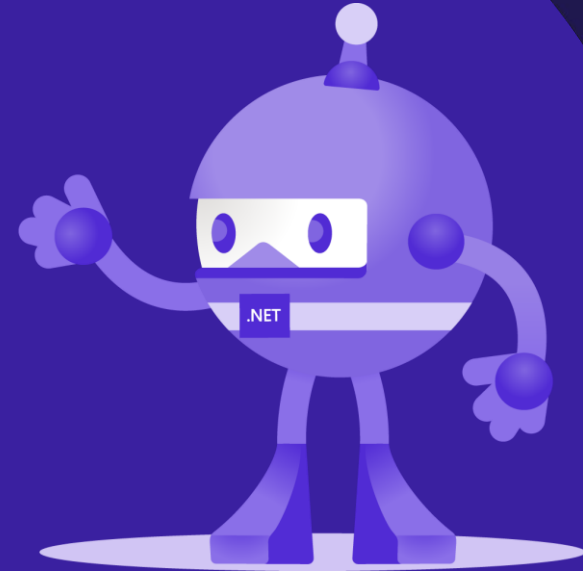




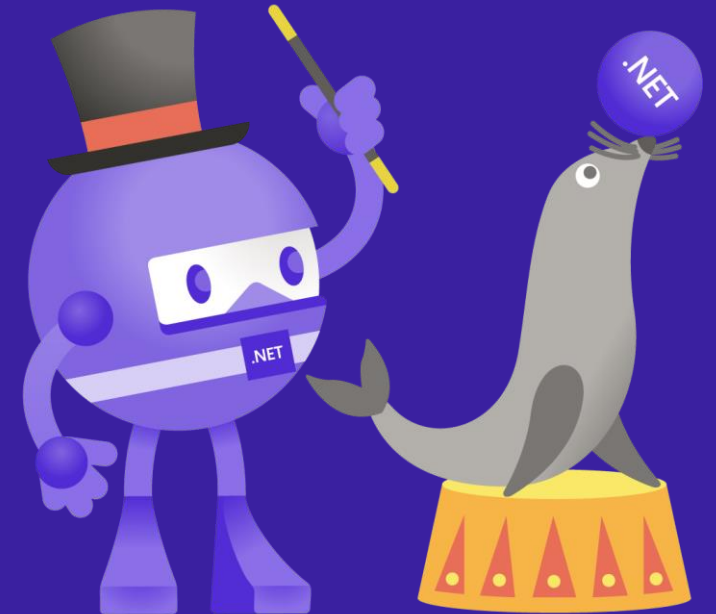
Blazor a trail with .NET 8

Peter Bull

Software Engineer, Bede Gaming



What is .NET?



.NET

A large, white ".NET" logo centered within a solid blue square.

.NET

Build web apps & services for Windows, macOS, Linux & Docker

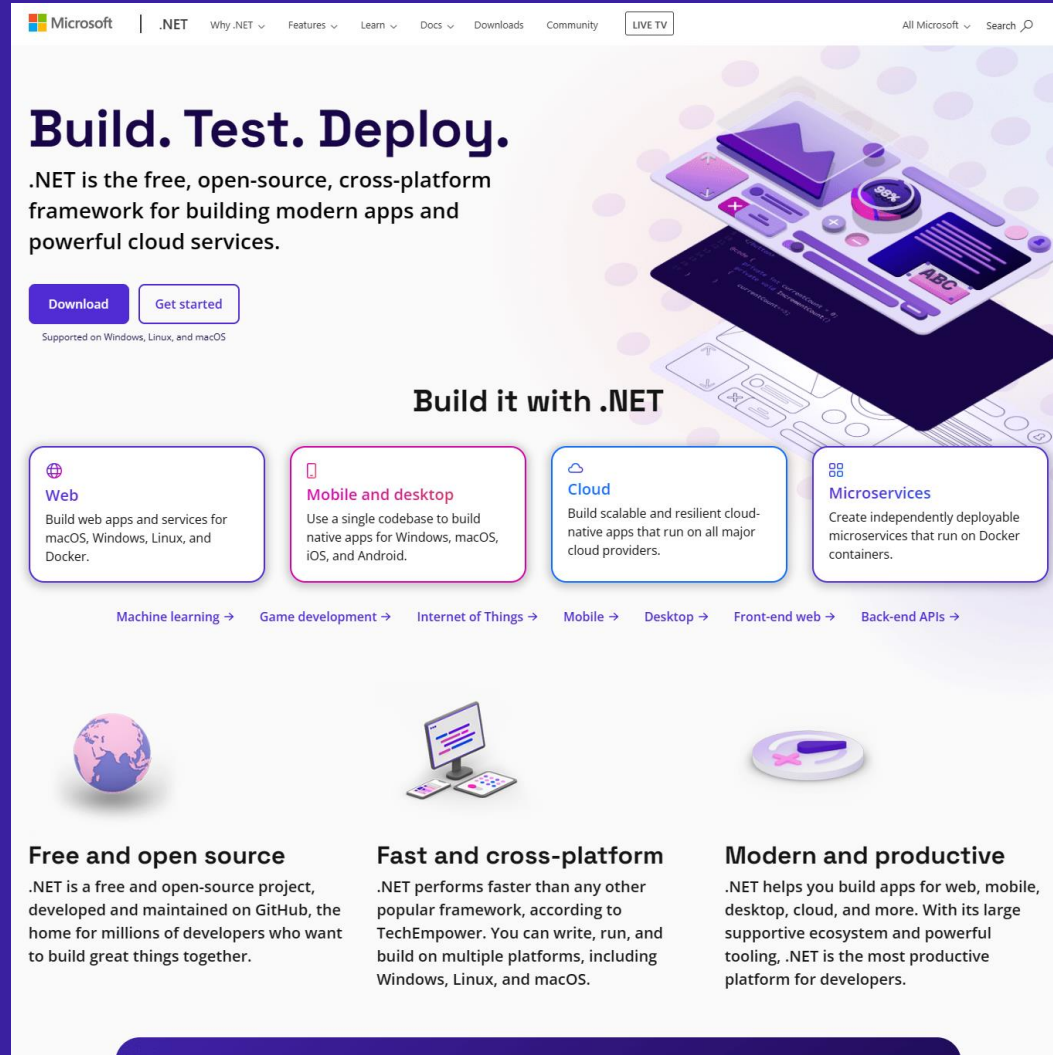
Build native apps for Windows, macOS, iOS & Android

Build cloud-native apps or Docker microservices

Faster than any other popular framework

Build anything on any platform

What is .NET?

A screenshot of the Microsoft .NET website. The page has a white background with a purple header bar containing the Microsoft logo and navigation links. The main content area features a large heading "Build. Test. Deploy." followed by a description of .NET as a free, open-source, cross-platform framework. Below this are two buttons: "Download" and "Get started". To the right is a large illustration of a smartphone and a laptop displaying code. Further down, there's a section titled "Build it with .NET" with four colored boxes representing different use cases: Web (purple), Mobile and desktop (pink), Cloud (blue), and Microservices (light blue). Below these boxes is a horizontal navigation bar with links to various development areas. At the bottom, there are three columns highlighting key benefits: Free and open source, Fast and cross-platform, and Modern and productive, each with an icon and a brief description.

Microsoft | .NET Why .NET Features Learn Docs Downloads Community LIVE TV All Microsoft Search


Build. Test. Deploy.

.NET is the free, open-source, cross-platform framework for building modern apps and powerful cloud services.


[Download](#) [Get started](#)

Supported on Windows, Linux, and macOS


Build it with .NET

 **Web**


Build web apps and services for macOS, Windows, Linux, and Docker.

 **Mobile and desktop**

Use a single codebase to build native apps for Windows, macOS, iOS, and Android.


 **Cloud**

Build scalable and resilient cloud-native apps that run on all major cloud providers.


 **Microservices**

Create independently deployable microservices that run on Docker containers.


[Machine learning →](#) [Game development →](#) [Internet of Things →](#) [Mobile →](#) [Desktop →](#) [Front-end web →](#) [Back-end APIs →](#)

 **Free and open source**

.NET is a free and open-source project, developed and maintained on GitHub, the home for millions of developers who want to build great things together.

 **Fast and cross-platform**

.NET performs faster than any other popular framework, according to TechEmpower. You can write, run, and build on multiple platforms, including Windows, Linux, and macOS.

 **Modern and productive**

.NET helps you build apps for web, mobile, desktop, cloud, and more. With its large supportive ecosystem and powerful tooling, .NET is the most productive platform for developers.

What's new in .NET 8?



.NET 8 will be released during .NET Conf 2023 in November

JSON Serialisation and Deserialisation Enhancements

Validation Attributes for Cloud-Native Configuration

Keyed Dependency Injection for scoping services

Time abstraction with Time Provider for tests

What is .NET?



The screenshot shows the Visual Studio website homepage. At the top is a navigation bar with links for Microsoft, Visual Studio, Developer Tools, Downloads, Buy, Subscriptions, and a button for Free Visual Studio. The main heading is "GitHub Copilot and Visual Studio 2022" with the subtext "Get more done with your AI pair programmer". Below this, a paragraph describes how Copilot helps with coding. A "NEW" badge highlights that Copilot for Business adds security vulnerability filtering, proxy support, and industry-leading privacy. Three statistics are shown: 55% faster coding, 46% code written, and 75% more fulfilled. A "Get GitHub Copilot" button is present. To the right, a code editor snippet shows C# code for a REST client. Below the main section, "Meet the Visual Studio family" introduces Visual Studio and Visual Studio Code with their respective descriptions and download buttons. A footer note asks if the user is wondering which tool is best for them.

Microsoft | Visual Studio Developer Tools Downloads Buy Subscriptions Free Visual Studio

GitHub Copilot and Visual Studio 2022

Get more done with your AI pair programmer

Stay in your flow and complete tasks faster with the help of multi-line suggestions prompted by your code and code comments. Building new functionality, writing unit tests, and learning new technologies has never been easier or more fun.

NEW GitHub Copilot for Business adds security vulnerability filtering, proxy support, and industry leading privacy.

55% faster coding
46% code written
75% more fulfilled

 [Get GitHub Copilot](#)

```
14 [TestMethod]
15 0 references | 0 changes | 0 authors, 0 changes
16 public async Task ReturnsNotFoundGivenInvalidId()
17 {
18     var response = await ProgramTest.NewClient.GetAsync
19     Assert.AreEqual(HttpStatusCode.NotFound, respons
20 }
21
22 [TestMethod]
23 public async Task ReturnsItemGivenValidId
24     ReturnsItemGivenValidId
25     TaskAsync
26     GetTaskAsync
27     GetTask
```

Meet the Visual Studio family



Visual Studio | Windows

The most comprehensive IDE for .NET and C++ developers on Windows. Fully packed with a sweet array of tools and features to elevate and enhance every stage of software development.

[Learn more →](#)

[Download Visual Studio](#)



Visual Studio Code | Windows macOS Linux

A standalone source code editor that runs on Windows, macOS, and Linux. The top pick for JavaScript and web developers, with extensions to support just about any programming language.

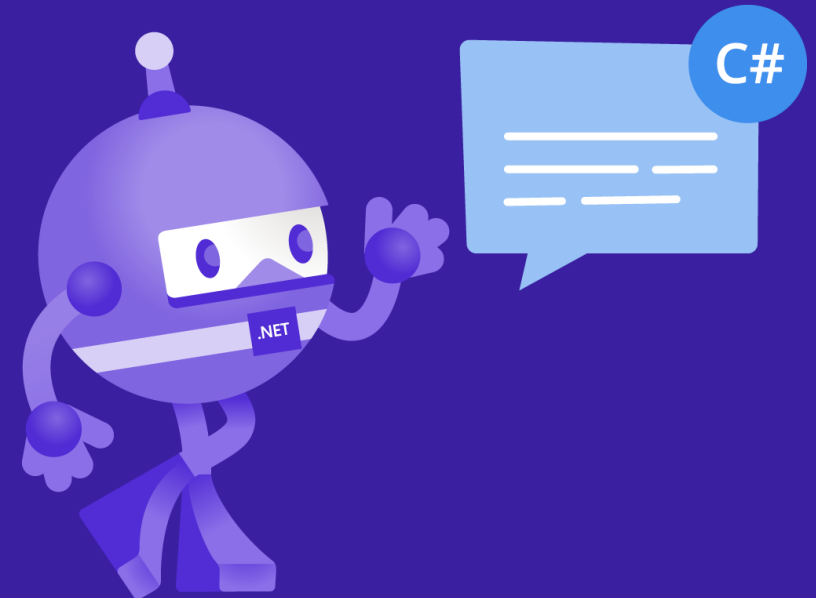
[Learn more →](#)

By using Visual Studio Code you agree to its [license](#) & [privacy statement](#)

[Download Visual Studio Code](#)

🔗 Wondering which tool is best for you? We can help.

What is C#?





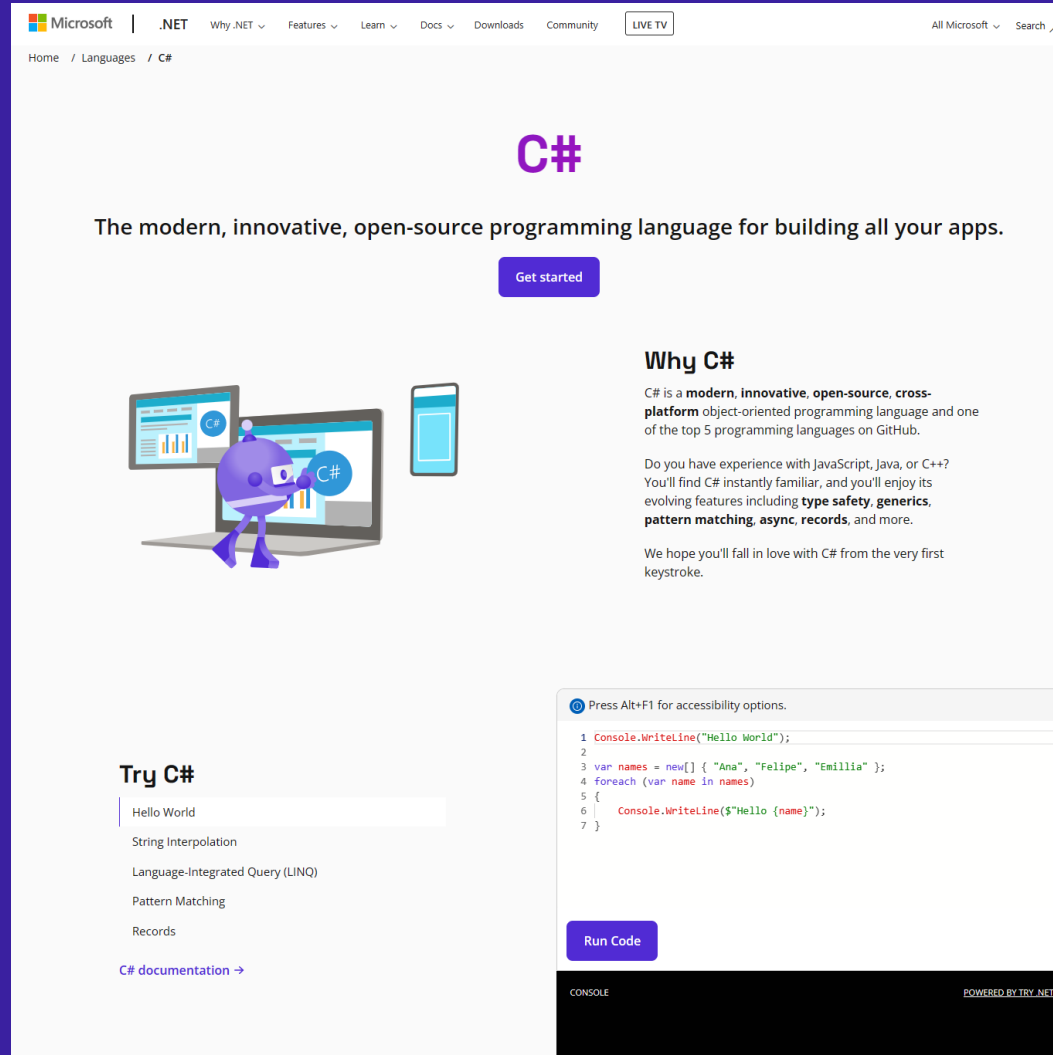
Any application on any platform, easy to learn & readable

Supports type-safety, generics & pattern matching

Provides properties, string interpolation & async

Leverage power of Language Integrated Query

Open-source & constantly evolving language

A screenshot of the Microsoft C# website. The page has a white background with a purple header bar containing the Microsoft logo, ".NET", and navigation links like "Why .NET", "Features", "Learn", "Docs", "Downloads", and "Community". A "LIVE TV" button is also present. Below the header, the text "Home / Languages / C#" is visible. The main content area features a large purple "C#" logo, followed by the text "The modern, innovative, open-source programming language for building all your apps." and a "Get started" button. To the left, there's an illustration of a purple robot character standing next to a laptop and a smartphone, both displaying C# code. To the right, the "Why C#" section explains that C# is a modern, innovative, open-source, cross-platform object-oriented programming language. It also mentions that C# is instantly familiar to those with experience in JavaScript, Java, or C++, and lists features like type safety, generics, pattern matching, async, records, and more. Below this, a "Try C#" section offers a list of examples: "Hello World", "String Interpolation", "Language-Integrated Query (LINQ)", "Pattern Matching", and "Records". A "C# documentation" link is also provided. At the bottom right, there's a "Run Code" button and a code editor showing a C# program that prints "Hello World" and iterates over an array of names. A "CONSOLE" section at the bottom right indicates it's powered by TRY.NET.

What's new in C# 12?



Latest C# releasing during .NET Conf 2023 in November

Primary constructors supported for any class

Collection expressions for defining values

Using alias directive for any type

Default lambda parameters

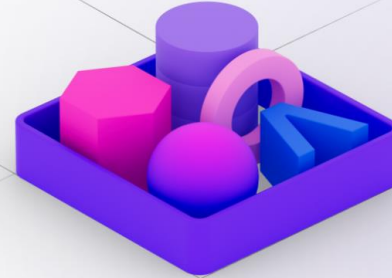
.NET Conf 2023

.NET Conf 2023

The largest .NET event hosted online
November 14 - 16.

Add to calendar

Subscribe for updates →



Host a .NET Conf Community Event!

Would you like to organize an event for your community? Take a look at our previous "[Event-in-a-box](#)" on GitHub to help you. Let us know about your event by filling out the form below.

Host an event

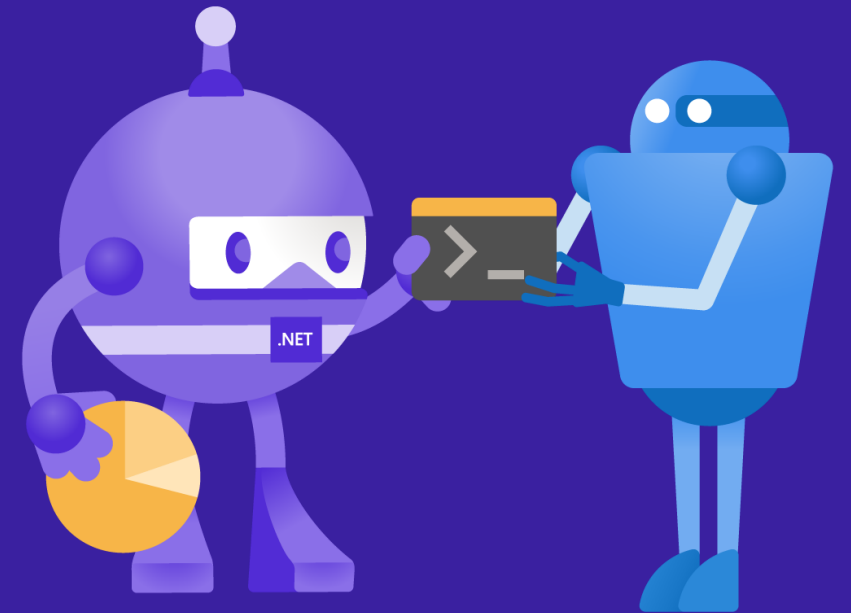
The biggest .NET virtual event

.NET Conf has been a virtual event since the beginning, and this year we're celebrating our 13th online conference. We always strive to create a world class, engaging, virtual experience for all our attendees no matter where they are. Over the years we've expanded our content and our reach. We now draw over 100 thousand live viewers and sponsor hundreds of local events around the world.

What to expect at the conference

Over the course of the three days we provide a wide selection of live sessions that feature speakers from the community and .NET team members. We have sessions streaming 24/7 between day two and three of the conference so everyone can get involved no matter what their time zone. You can ask questions live on Twitter, join the fun on Twitch, attend the virtual attendee parties where you can play trivia games and win

What is Blazor?



Blazor a trail with .NET 8

Blazor



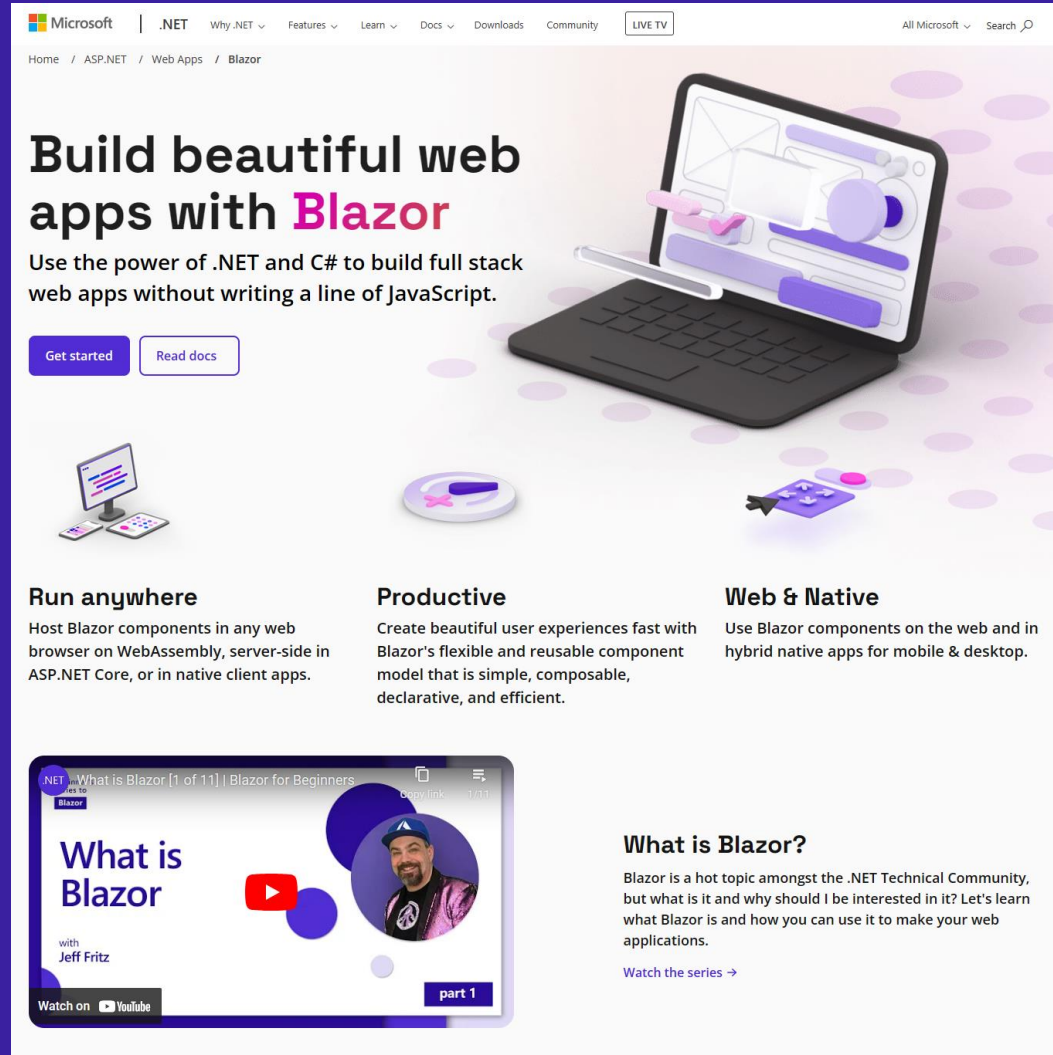
Build web apps with Blazor without writing any JavaScript

Host in any web browser, server-side & native apps

Reusable component model for web & hybrid

Bind to data models to visualise & edit data

Access existing JavaScript Libraries & APIs

A screenshot of the Microsoft Blazor landing page. The page has a white background with a light blue and purple color scheme. At the top, there's a navigation bar with the Microsoft logo, ".NET", and links for "Why .NET", "Features", "Learn", "Docs", "Downloads", and "Community". A "LIVE TV" button is also present. Below the navigation bar, the main heading reads "Build beautiful web apps with Blazor" in a large, bold font. Underneath, a subheading states "Use the power of .NET and C# to build full stack web apps without writing a line of JavaScript." There are two buttons: "Get started" and "Read docs". To the right of the text is an illustration of a laptop displaying a web application interface. Below the main heading, there are three columns of text, each with an icon and a title. The first column is titled "Run anywhere" and features an icon of a laptop and a smartphone. The second column is titled "Productive" and features an icon of a clock and a pencil. The third column is titled "Web & Native" and features an icon of a smartphone and a game controller. At the bottom, there's a video player showing a video titled "What is Blazor [1 of 11] | Blazor for Beginners" by Jeff Fritz. The video player includes a play button, a progress bar, and a "Watch on YouTube" button. To the right of the video player, there's a section titled "What is Blazor?" with a brief description and a link to "Watch the series".

Microsoft | .NET | Why .NET | Features | Learn | Docs | Downloads | Community | LIVE TV | All Microsoft | Search

Home / ASP.NET / Web Apps / Blazor

Build beautiful web apps with Blazor

Use the power of .NET and C# to build full stack web apps without writing a line of JavaScript.

[Get started](#) [Read docs](#)

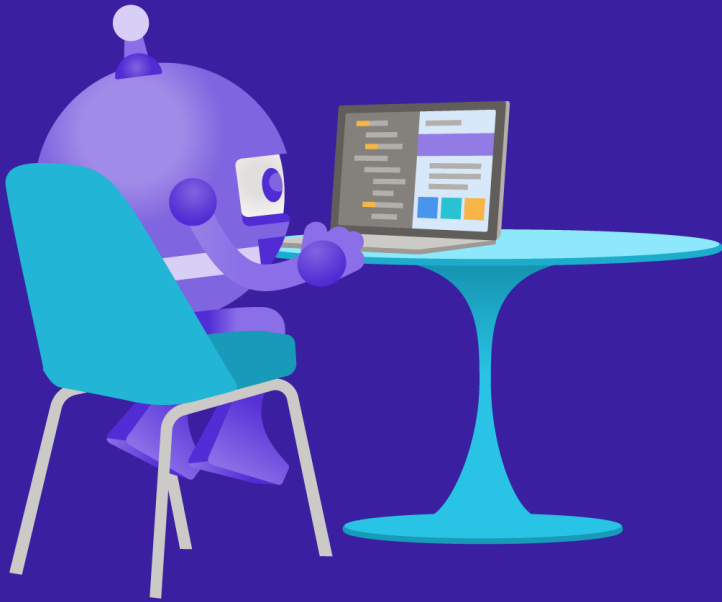
Run anywhere
Host Blazor components in any web browser on WebAssembly, server-side in ASP.NET Core, or in native client apps.

Productive
Create beautiful user experiences fast with Blazor's flexible and reusable component model that is simple, composable, declarative, and efficient.

Web & Native
Use Blazor components on the web and in hybrid native apps for mobile & desktop.

What is Blazor?
Blazor is a hot topic amongst the .NET Technical Community, but what is it and why should I be interested in it? Let's learn what Blazor is and how you can use it to make your web applications.
[Watch the series →](#)

What's new in Blazor?



Streaming & Direct Rendering of Components

Auto Mode for Client / Server Web Apps

Enhanced Navigation & Form Handling

Section Outlet & Content

Debugging in Firefox

asp.net



The screenshot shows the ASP.NET homepage with a navigation bar at the top containing the Microsoft logo, ".NET", and various links like "Why .NET", "Features", "Learn", "Docs", "Downloads", and "Community". A "LIVE TV" button is also present. Below the navigation bar, the main heading "ASP.NET" is displayed in large purple letters. Underneath, it says "Free. Cross-platform. Open source. A framework for building web apps and services with .NET and C#." followed by a purple "Get started" button. A note indicates it is "Supported on Windows, Linux, and macOS".

Interactive web UI with C#

Blazor is a feature of ASP.NET for building interactive web UIs using C# instead of JavaScript. Blazor gives you real .NET running in the browser on WebAssembly.

[Learn about Blazor →](#)

Web Apps
Build full stack web apps with HTML, CSS, JavaScript, and C#

APIs
Develop REST APIs for a range of clients, including browsers and mobile devices

Real-time
Enable bi-directional communication between server and client, in real-time

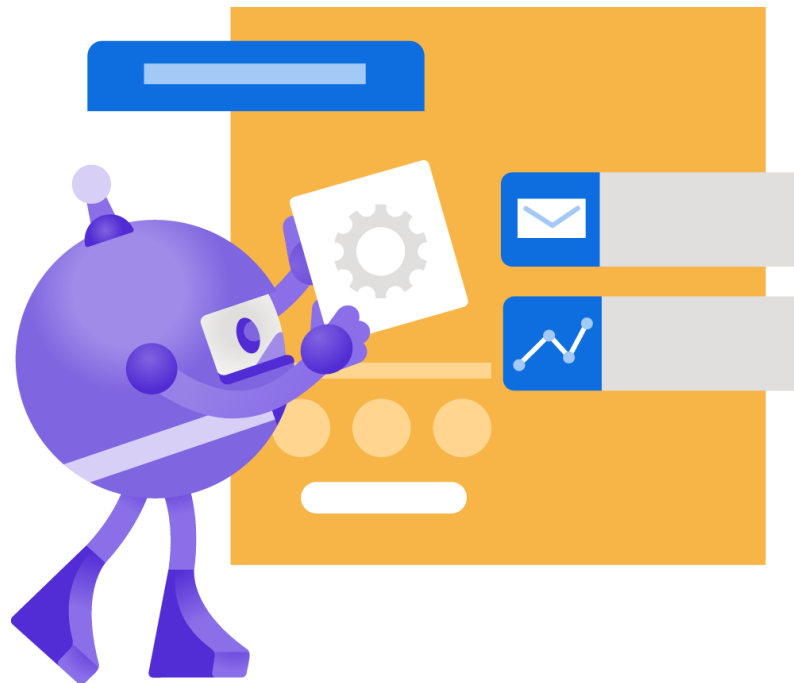
Microservices
Create independently deployable microservices that run on Docker containers

What is ASP.NET?

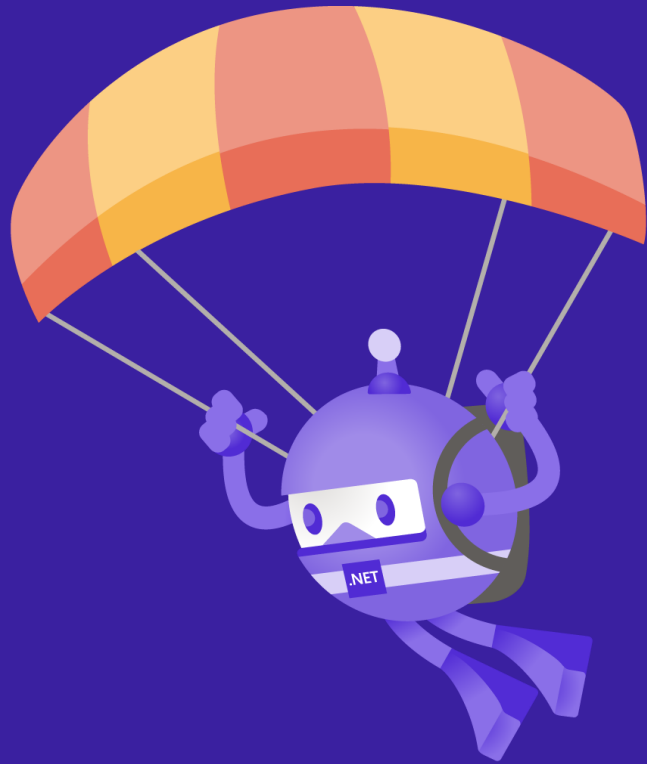
.NET is a developer platform made up of tools, programming languages, and libraries for building many different types of applications.

What is Blazor?

Demo



Overview



Build modern apps & services for any platform using .NET

New .NET release each year & .NET 8 coming November

C# for writing .NET apps & C# 12 coming with .NET 8

Blazor & ASP.NET for .NET web apps & services

Start your .NET, C# or Blazor journey today

Blazor a trail with .NET 8

About



Peter Bull

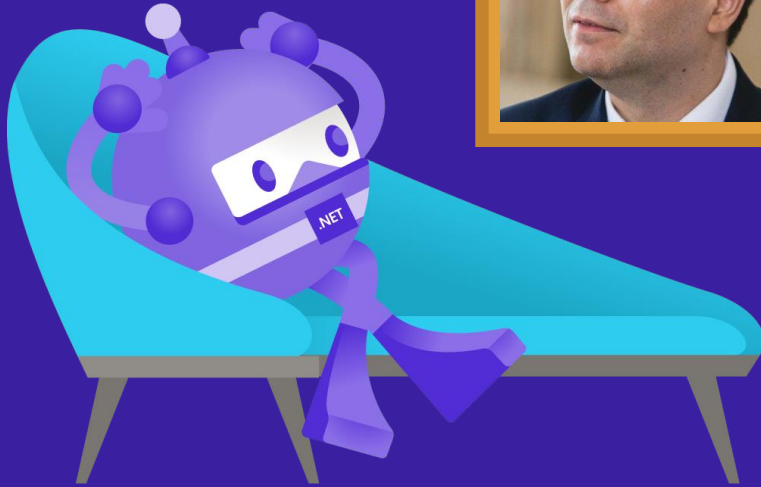
Software Engineer for Bede Gaming – bedegaming.com

Posts, Articles and Podcast – rogueplanetoid.com

Tutorials, talks and workshops – tutorialr.com

LinkedIn – linkedin.com/in/rogueplanetoid

GitHub – github.com/rogueplanetoid





Any Questions?

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dotnetconf.net blazor.net asp.net
bedegaming.com rogueplanetoid.com tutorialr.com

github.com/rogueplanetoid/blazoratrailwithdotneteight

rogueplanetoid.github.io/spotazor

