

# Descargas



## Visual Studio 2022 |

El IDE más completo para desarrolladores de .NET y C++ en Windows para crear aplicaciones web, en la nube, de escritorio, móviles, servicios y juegos.

### Versión preliminar

Obtenga acceso anticipado a las características más recientes que aún no están en la versión principal

[Obtener más información →](#)

### Community

IDE eficaz, gratuito para estudiantes, colaboradores de código abierto e individuos

[Descarga gratuita](#)

### Professional

IDE profesional más adecuado para equipos

[Prueba gratuita](#)

### Enterprise

Escalable, solución integral para equipos de cualquier tamaño

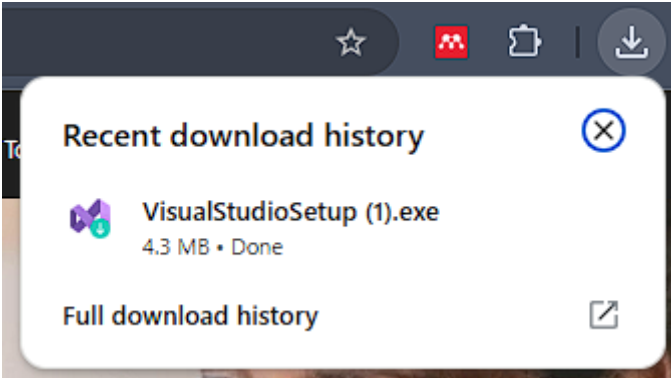
[Prueba gratuita](#)

[Notas de la versión →](#)

[Comparar ediciones →](#)

[Cómo instalarlo sin conexión →](#)

[Términos de licencia →](#)





## Visual Studio Installer

Before you get started, we need to set up a few things so that you can configure your installation.

To learn more about privacy, see the [Microsoft Privacy Statement](#).

By continuing, you agree to the [Microsoft Software License Terms](#).

Continue

## Visual Studio Installer

Getting the Visual Studio Installer ready.

Downloading: 6.67 MB of 31.5 MB

707.8 KB/sec

Installing

Cancel



### Update available



#### Visual Studio Community 2022

Update version: 17.14.9 (July 2025)

Download size: 2.03 GB

Progress: 100% downloaded

[Release notes](#)

Current version: 17.14.7

Last updated: 6/25/2025

#### What's new in 17.14.9 (July 2025)

A cumulative update with new features, updated components, and servicing fixes issued.


This update may include new Microsoft or third-party software that is licensed separately, as set out in the [3rd Party Notices](#) or in its accompanying license.


Update


Close


Need help choosing what to install? [More info](#)

Web & Cloud (4)

**ASP.NET and web development**  
Build web applications using ASP.NET Core, ASP.NET, HTML/JavaScript, and Containers including Docker supp...☒

**Azure development**  
Azure SDKs, tools, and projects for developing cloud apps and creating resources using .NET and .NET Framework....☐

**Python development**  
Editing, debugging, interactive development and source control for Python.☐

**Node.js development**  
Build scalable network applications using Node.js, an asynchronous event-driven JavaScript runtime.☐

Desktop & Mobile (5)

**.NET Multi-platform App UI development**  
Build Android, iOS, Windows, and Mac apps from a single codebase using C# with .NET MAUI.☐

**.NET desktop development**  
Build WPF, Windows Forms, and console applications using C#, Visual Basic, and F# with .NET and .NET Frame...☒

Location  
C:\Program Files\Microsoft Visual Studio\2022\Community [Change...](#)

By continuing, you agree to the [license](#) for the Visual Studio edition you selected. We also offer the ability to download other software with Visual Studio. This software is licensed separately, as set out in the [3rd Party Notices](#) or in its accompanying license. By continuing, you also agree to those licenses.

### Installation details

**.NET desktop development**

Included

- ✓ .NET desktop development tools
- ✓ .NET Framework 4.7.2 development tools
- ✓ C# and Visual Basic

Optional

- ☒ Development tools for .NET
- ☒ .NET Framework 4.8 development tools
- ☒ Entity Framework 6 tools
- ☒ .NET profiling tools
- ☒ IntelliCode
- ☒ Just-In-Time debugger
- ☒ Live Share
- ☒ ML.NET Model Builder
- ☒ Blend for Visual Studio
- ☐ F# desktop language support
- ☐ PreEmptive Protection - Dotfuscator
- ☐ .NET Framework 4.6.2-4.7.1 development t...
- ☐ .NET Portable Library targeting pack

[Remove out-of-support components](#)

Total space required 8.97 GB

[Install while downloading](#) [Install](#)

# Visual Studio 2022

## Open recent

As you use Visual Studio, any projects, folders, or files that you open will show up here for quick access.

You can pin anything that you open frequently so that it's always at the top of the list.

## Get started



### Clone a repository

Get code from an online repository like GitHub or Azure DevOps



### Open a project or solution

Open a local Visual Studio project or .sln file



### Open a local folder

Navigate and edit code within any folder



### Create a new project

Choose a project template with code scaffolding to get started

[Continue without code →](#)

# Create a new project

## Recent project templates



ASP.NET Core Web App (Model-View-Controller)

C#

Search for templates (Alt+S)



Clear all

C#

Windows

Console



Console App

A project for creating a command-line application that can run on .NET on Windows, Linux and macOS

C#

Linux

macOS

Windows

Console



Console App (.NET Framework)

A project for creating a command-line application

C#

Windows

Console

Not finding what you're looking for?  
[Install more tools and features](#)

Back

Next

# Configure your new project

Console App (.NET Framework) C# Windows Console

Project name

HolaMundo

Location

C:\Users\kralos\source\repos

...

Solution name ⓘ

HolaMundo

☐ Place solution and project in the same directory

Framework

.NET Framework 4.7.2

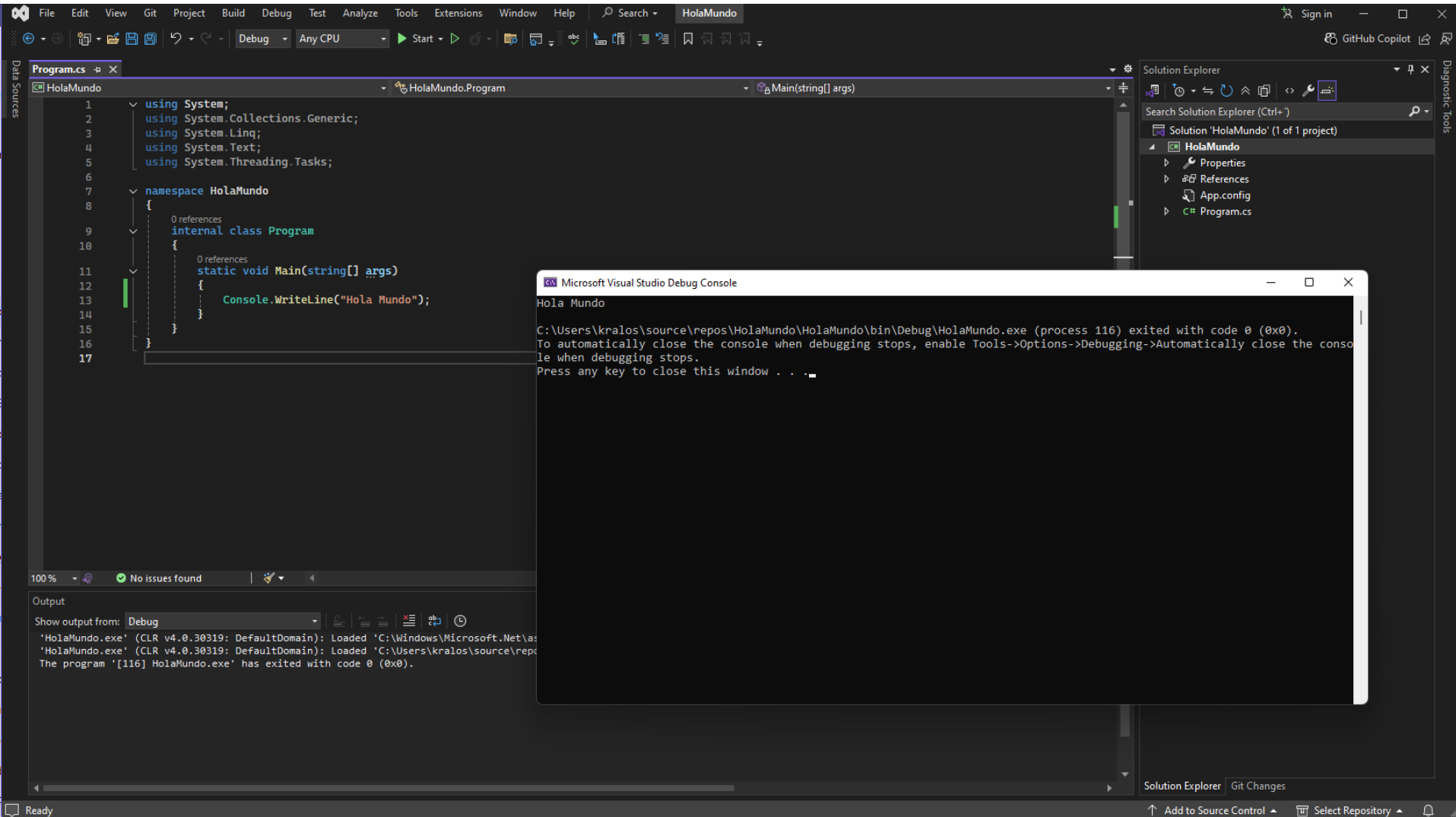
Project will be created in "C:\Users\kralos\source\repos\HolaMundo\HolaMundo\"

# Sobre el código

```
using System;                // Importa funcionalidades básicas como Console
using System.Collections.Generic; // Colecciones genéricas como List<>
using System.Linq;           // Funciones LINQ para colecciones
using System.Text;           // Funciones para trabajar con texto
using System.Threading.Tasks; // Para tareas asíncronas y concurrencia

namespace HolaMundo          // Define un espacio de nombres llamado HolaMundo
{
    internal class Program    // Clase principal llamada Program
    {
        static void Main(string[] args) // Punto de entrada de la aplicación
        {
        }
    }
}
```





> kralos > source > repos > HolaMundo >

> kralos > source > repos > HolaMundo > HolaMundo >

Name		Name	Date modified	Type	Size
HolaMundo		bin	7/28/2025 6:12 PM	File folder	
HolaMundo.sln		obj	7/28/2025 6:12 PM	File folder	
		Properties	7/28/2025 6:12 PM	File folder	
		App	7/28/2025 6:12 PM	Configuration Sou...	1 KB
		HolaMundo	7/28/2025 6:12 PM	C# Project file	3 KB
		Program	7/28/2025 6:14 PM	C# Source File	1 KB

> kralos > source > repos > HolaMundo > HolaMundo > bin > Debug

Name	Date modified	Type	Size
HolaMundo	7/28/2025 6:14 PM	Application	5 KB
HolaMundo.exe	7/28/2025 6:12 PM	Configuration Sou...	1 KB
HolaMundo.pdb	7/28/2025 6:14 PM	Program Debug D...	20 KB

PowerShell

PowerShell 7.5.2  
Loading personal and system profiles took 3101ms.

[kralos]  
[~\source\repos\HolaMundo\HolaMundo\bin\Debug]  
ls



Directory: C:\Users\kralos\source\repos\HolaMundo\HolaMundo\bin\Debug

Mode	LastWriteTime	Length	Name
-a---	7/28/2025 6:14 PM	4608	HolaMundo.exe
-a---	7/28/2025 6:12 PM	189	HolaMundo.exe.config
-a---	7/28/2025 6:14 PM	19968	HolaMundo.pdb

[kralos]  
[~\source\repos\HolaMundo\HolaMundo\bin\Debug]  
.\HolaMundo.exe  
Hola Mundo

## C# namespace vs Java package

Característica	namespace en C#	package en Java
Propósito	Organizar clases, evitar conflictos	Igual: organizar y evitar conflictos
Sintaxis	<pre>namespace MiAplicacion.Utilidades { ... }</pre>	<pre>package miaplicacion.utilidades;</pre>
Relación con estructura de carpetas	No obligatoria, pero recomendable	Obligatoria: debe coincidir con estructura
Importación	<pre>using MiAplicacion.Utilidades;</pre>	<pre>import miaplicacion.utilidades.*;</pre>
Accesibilidad predeterminada	<code>internal</code> para clases sin modificador	<code>package-private</code> (sin modificador)
Nombre de archivo	Puede diferir del nombre de la clase	El archivo debe llamarse como la clase pública
Alias de importación	Sí, con <pre>using alias = namespace;</pre>	No directamente, se usa <code>static import</code> en algunos casos
Compilación	No requiere estructura de carpetas específica	Requiere que la carpeta refleje el <code>package</code>

Aspecto	 C#	 Java
Sintaxis principal	<code>Console.WriteLine(...)</code>	<code>System.out.println(...)</code>
Estructura del programa	Usa <code>namespace</code>	Usa <code>class</code> , opcionalmente <code>package</code>
Método principal	<code>static void Main(string[] args)</code>	<code>public static void main(String[] args)</code>
Nombre del archivo	No necesita coincidir con la clase	Debe coincidir con el nombre de la clase
Compilación	<code>csc archivo.cs</code> o <code>dotnet run</code>	<code>javac archivo.java</code> y luego <code>java</code>
Requiere entorno	.NET SDK o Visual Studio	JDK (Java Development Kit)