



# Estruturas de Dados 1

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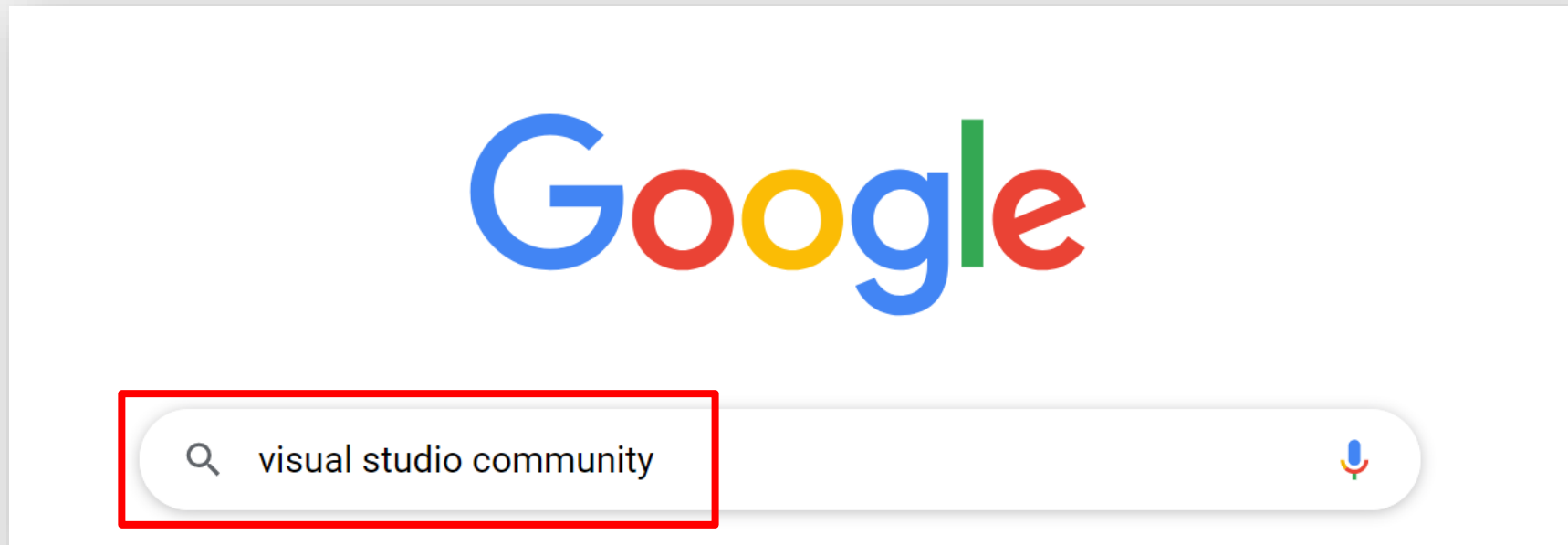
Passos para Instalação do Microsoft Visual Studio Community

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Busque por "*Visual Studio Community*"



# Abra o link vinculado ao site oficial da Microsoft

The image shows a Google search interface. The search bar contains the text "visual studio community". Below the search bar, there are navigation options: "Todas", "Imagens", "Vídeos", "Notícias", "Shopping", "Mais", and "Ferramentas". The search results show "Aproximadamente 541.000.000 resultados (0,63 segundos)". The first result is a link from "https://visualstudio.microsoft.com > pt-br > vs > commu..." with the title "Visual Studio Community 2019 - Free IDE and Developer Tools". This title is enclosed in a red rectangular box, and to its right, the text "1º link" is written in red. Below the title, the date "26 de out. de 2020" and a snippet of text are visible: "Para todos os outros cenários de uso: Em organizações não-empresariais, até cinco usuários podem usar o **Visual Studio Community**. Em ...".

# Baixando o Visual Studio Community



The screenshot shows the Microsoft Visual Studio website. At the top left is the Microsoft logo. Next to it is the text 'Visual Studio' followed by a dropdown menu labeled 'Mais'. To the right is a search bar containing the text 'Visual Studio gratuito'. Further right is a link 'Toda a Microsoft' with a dropdown arrow, a search icon, and a user profile icon. The main heading is 'Visual Studio Community' in a large, bold, black font. Below the heading is a paragraph: 'Um IDE gratuito, completo e extensível para a criação de aplicativos modernos para Android, iOS e Windows, bem como aplicativos Web e serviços de nuvem.' Below this paragraph is a purple button with the text 'Baixar o Visual Studio' and a download icon. The button is highlighted with a red rectangular border. To the right of the button, the text 'Baixar e executar...' is written in a bold, red font.

Microsoft | Visual Studio Mais  Toda a Microsoft  

## Visual Studio Community

Um IDE gratuito, completo e extensível para a criação de aplicativos modernos para Android, iOS e Windows, bem como aplicativos Web e serviços de nuvem.

[Baixar o Visual Studio](#)  **Baixar e executar...**

# Escolhas os Pacotes a Seguir

Installing — Visual Studio Community 2019 — 16.10.3

Workloads Individual components Language packs Installation locations

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

**1**

Web & Cloud (4)

- ASP.NET and web development  
Build web applications using ASP.NET Core, ASP.NET, HTML/JavaScript, and Containers including Docker supp...
- Python development  
Editing, debugging, interactive development and source control for Python.
- Azure development  
Azure SDKs, tools, and projects for developing cloud apps and creating resources using .NET and .NET Framework...
- Node.js development  
Build scalable network applications using Node.js, an asynchronous event-driven JavaScript runtime.

**2**

Desktop & Mobile (5)

- .NET desktop development  
Build WPF, Windows Forms, and console applications using C#, Visual Basic, and F# with .NET and .NET Frame...
- Universal Windows Platform development  
Create applications for the Universal Windows Platform with C#, VB, or optionally C++.
- Desktop development with C++  
Build modern C++ apps for Windows using tools of your choice, including MSVC, Clang, CMake, or MSBuild.
- Mobile development with .NET  
Build cross-platform applications for iOS, Android or Windows using Xamarin.
- Mobile development with C++  
Build cross-platform applications for iOS, Android or Windows using C++.

Gaming (2)

Location  
C:\Program Files (x86)\Microsoft Visual Studio\2019\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.

**3**

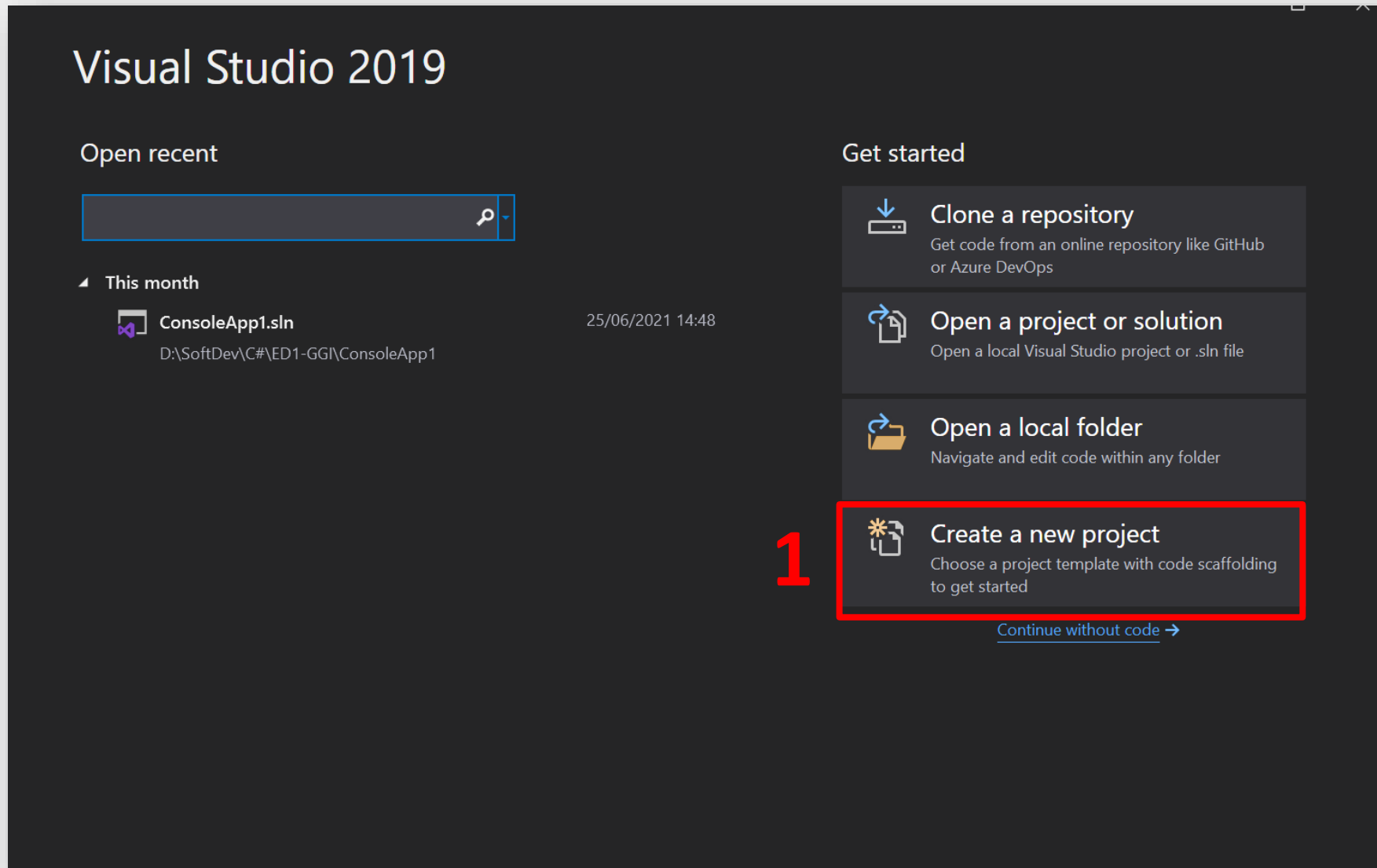
Installation details

- Python development
- .NET desktop development
  - Included
    - .NET desktop development tools
    - .NET Framework 4.7.2 development tools
    - C# and Visual Basic
  - Optional
    - .NET development tools
    - .NET Framework 4 – 4.6 development tools
    - Blend for Visual Studio
    - Entity Framework 6 tools
    - .NET profiling tools
    - IntelliCode
    - Just-In-Time debugger
    - Live Share
    - ML.NET Model Builder (Preview)
    - F# desktop language support
    - PreEmptive Protection - Dotfuscator
    - .NET Framework 4.6.1 development tools
    - .NET Framework 4.6.2 development tools
    - .NET Framework 4.7 development tools
    - .NET Framework 4.7.1 development tools
    - .NET Framework 4.8 development tools
    - .NET Portable Library targeting pack
    - Windows Communication Foundation
    - SQL Server Express 2016 LocalDB
    - MSIX Packaging Tools
    - JavaScript diagnostics
    - .NET Core 2.1 Runtime (LTS)

Total space required 6.27 GB

Install while downloading

# Depois de instalado, crie um novo projeto



# Configurações do Projeto

**Create a new project**

Search for templates (Alt+S) Clear all

**1** C# **2** All platforms Console **2**

**Recent project templates**

A list of your recently accessed templates will be displayed here.

- Console Application**  
A project for creating a command-line application that can run on .NET Core 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](#)

**3** Next

# Nome e Local do Projeto

Configure your new project

Console Application C# Linux macOS Windows Console

Project name

1 ConsoleApp1 Nome da aplicação

Location

2 D:\Ed1\ Escolha a pasta

Solution name ⓘ

ConsoleApp1

3  Place solution and project in the same directory

Back Next 4



# Escolha a versão mais nova do .NET

Additional information

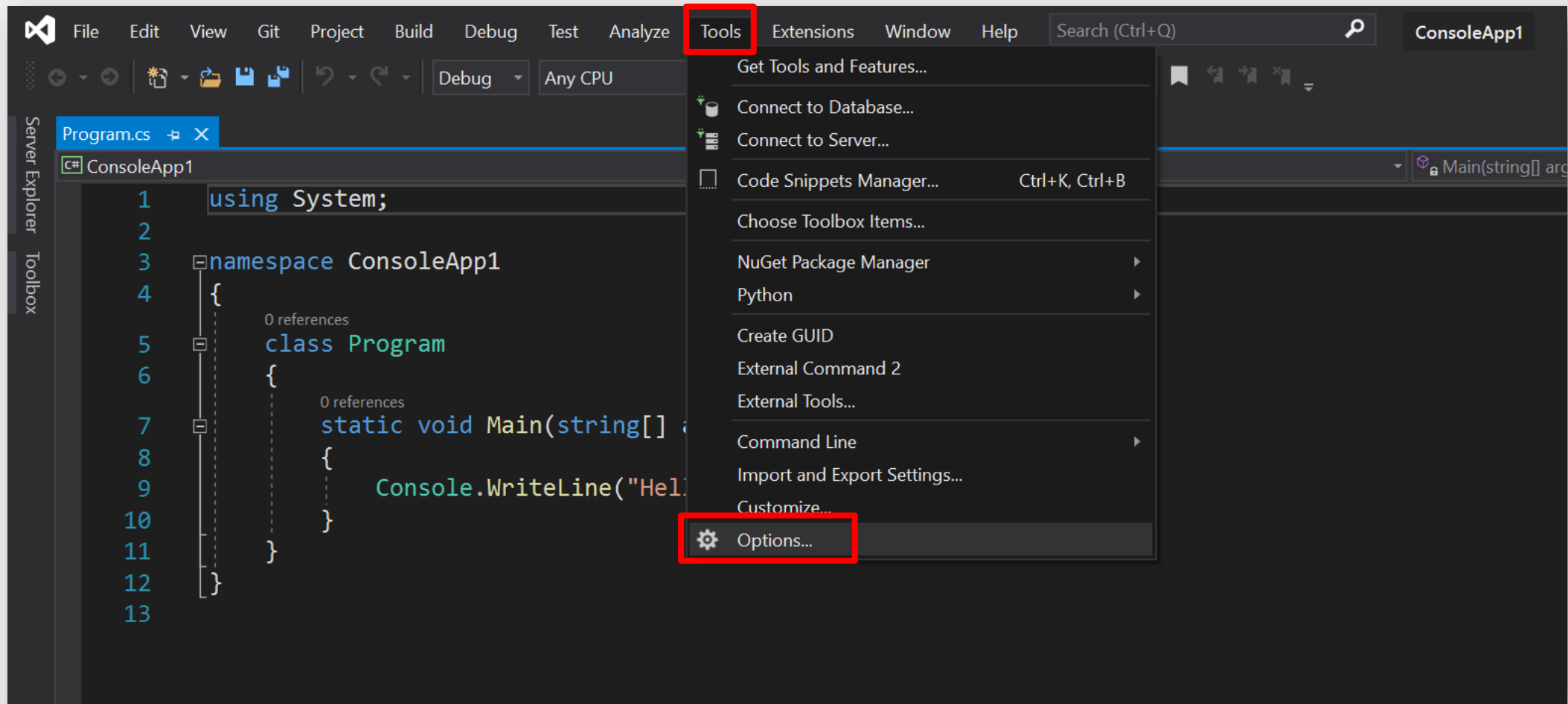
Console Application C# Linux macOS Windows Console

Target Framework ⓘ

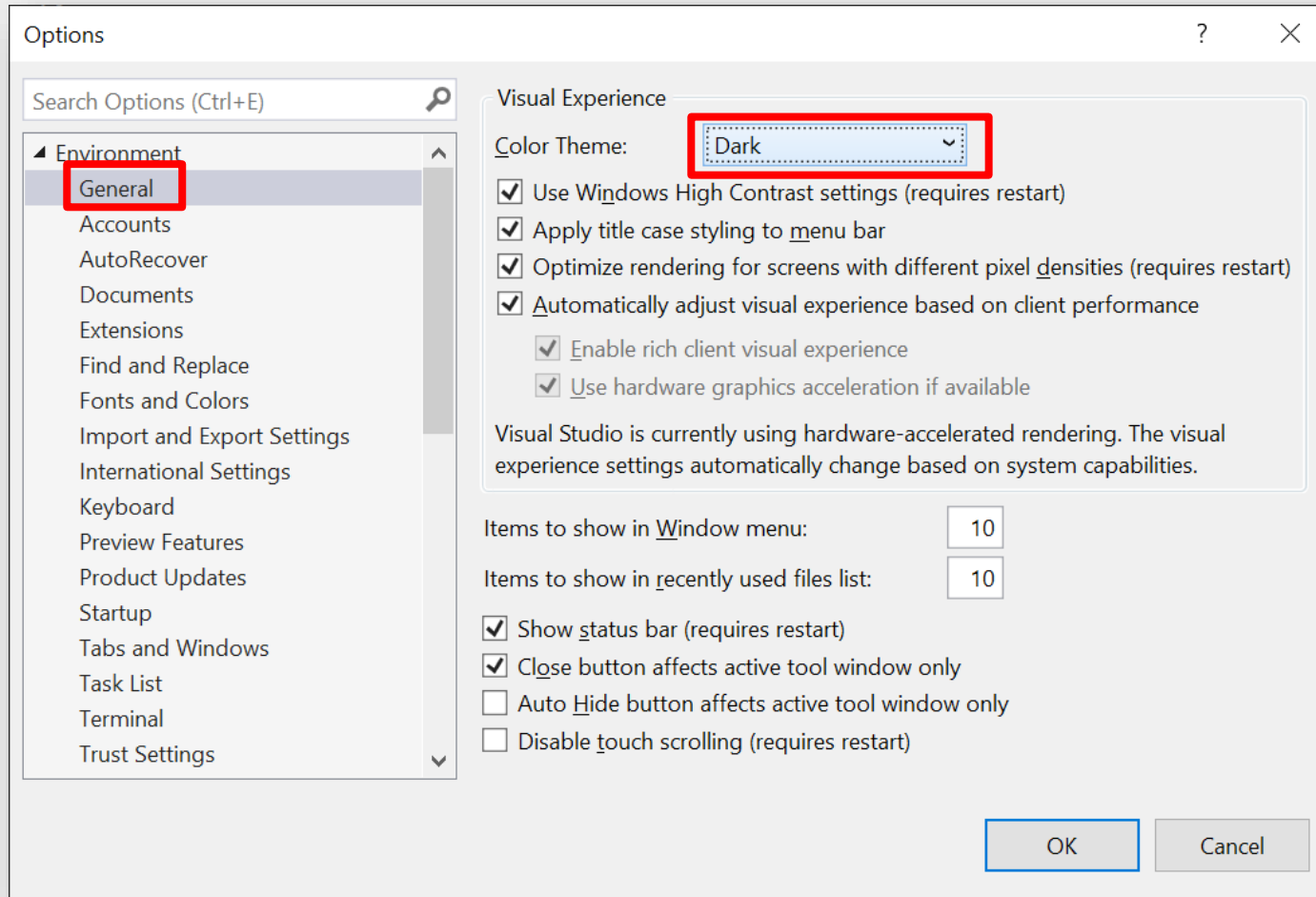
.NET 5.0 (Current) **1**

Back Create **2**

# Opcional - Dark Theme



# Opcional - Dark Theme



# Execute a Aplicação

1 Clique para executar (ou tecla F5)

```
1 using System;
2
3 namespace ConsoleApp1
4 {
5     0 references
6     class Program
7     {
8         0 references
9         static void Main(string[] args)
10        {
11            Console.WriteLine("Hello World!");
12        }
13    }
```

Microsoft Visual Studio Debug Console

```
Hello World!
D:\Ed1\ConsoleApp1\bin\Debug\net5.0\ConsoleApp1.exe (process 11080) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

2 Confira a saída na janela de console

# Adicione um novo arquivo de código C#

