Tutorial: Create a WinForms app with Visual Basic

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In this tutorial, you create a Visual Basic application that has a Windows Forms user interface. The Visual Studio integrated development environment (IDE) includes all the tools you need to create a Windows Forms app.

In this tutorial, you learn how to:

- Create a project
- ✓ Add a button to the form
- ✓ Add a label and code
- ✓ Run the application

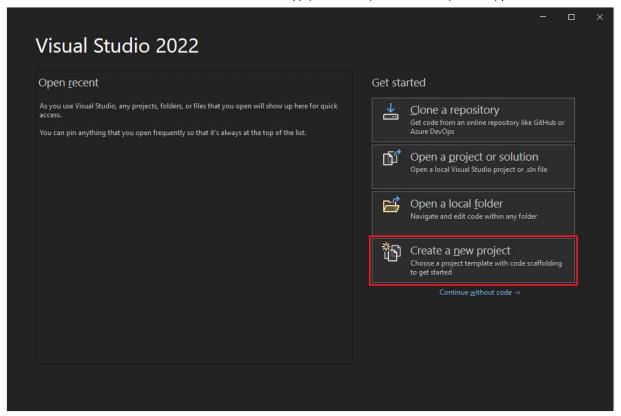
Prerequisites

- You need Visual Studio to complete this tutorial. Visit the Visual Studio downloads page for a free version.
- The .NET desktop development workload. To verify or install this workload in Visual Studio, select Tools > Get Tools and Features. For more information, see Change workloads or individual components.

Create a project

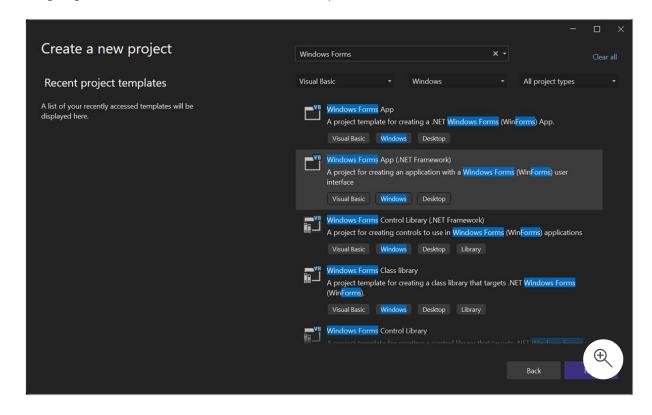
Create a Visual Basic application project. The project type comes with all the template files that you need.

- 1. Open Visual Studio.
- 2. On the start window, choose **Create a new project**.

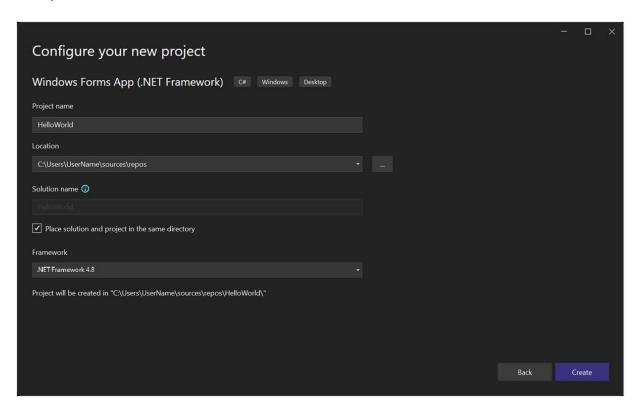


3. On the **Create a new project** window, select the **Windows Forms App (.NET Framework)** template for Visual Basic.

You can refine your search to quickly get to the template you want. For example, enter *Windows Forms App* in the search box. Next, select **Visual Basic** from the language list, and then **Windows** from the platform list.



4. In the **Configure your new project** window, enter *HelloWorld* as the **Project name**. Then, select **Create**.

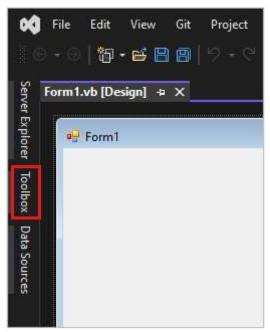


Visual Studio opens your new project.

Add a button to the form

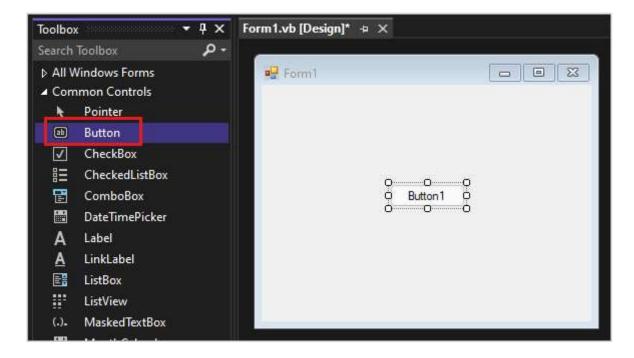
After you select your Visual Basic project template and name your file, Visual Studio opens a form for you. A form is a Windows user interface. You create a *Hello World* application by adding controls to the form.

1. On the left side of the Visual Studio IDE, select the **Toolbox** tab. If you don't see it, select **View** > **Toolbox** from the menu bar or **Ctrl+Alt+X**.

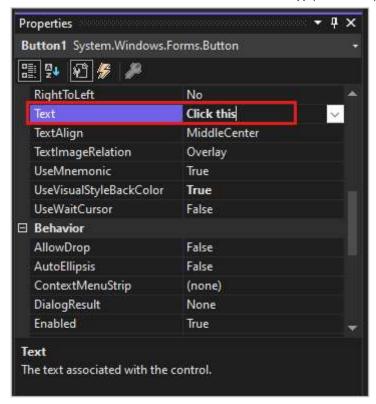


If you want, select the **Pin** icon to dock the **Toolbox** window.

2. Select the **Button** control and then drag it onto the form.

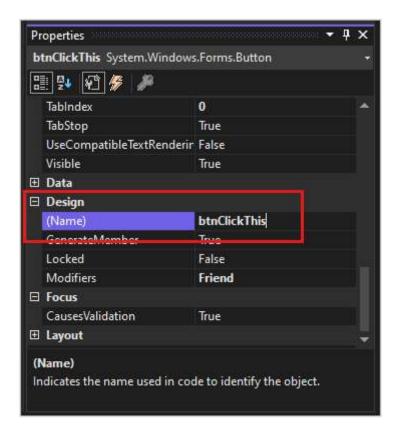


3. In the **Appearance** section of the **Properties** window, for **Text**, type *Click this*, and then select **Enter**.



If you don't see the **Properties** window, you can open it from the menu bar. Select **View** > **Properties Window** or **F4**.

4. In the **Design** section of the **Properties** window, change the name from **Button1** to *btnClickThis*, and then select **Enter**.



① Note

If you've alphabetized the list in the **Properties** window, **Button1** appears in the **(DataBindings)** section, instead.

Add a label and code

After you add a button control to create an action, add a label control to send text to.

- 1. Select the **Label** control in the **Toolbox** window, and then drag it onto the form. Place it beneath the **Click this** button.
- 2. In either the **Design** section or the **(DataBindings)** section of the **Properties** window, change the name **Label1** to *lblHelloWorld*, and then press **Enter**.
- 3. In the Form1.vb [Design] window, double-click the Click this button to open the Form1.vb window.

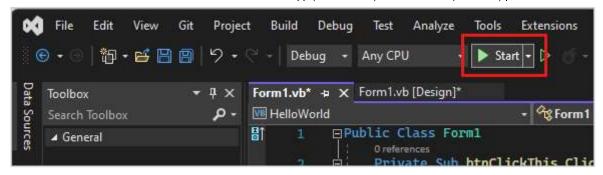
Another option is to expand Form1.vb in Solution Explorer. Then select Form1.

4. In the **Form1.vb** window, between the Private Sub and End Sub lines, enter lblHelloWorld.Text = "Hello World!" as shown in the following screenshot:

Run the application

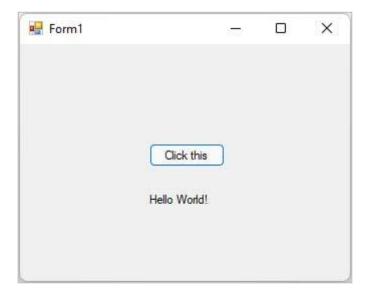
Your application is ready to build and run.

1. Select **Start** to run the application.



Several things happen. In the Visual Studio IDE, the **Diagnostics Tools** window opens, and an **Output** window opens. Outside of the IDE, a **Form1** dialog box appears. It includes your **Click this** button and text that says **Label1**.

2. Select the Click this button in the Form1 dialog box.



The Label1 text changes to Hello World!.

3. Close the **Form1** dialog box to stop running the app.

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