

# Create a C++ console app project

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The usual starting point for a C++ programmer is a "Hello, world!" application that runs on the command line. That's what you create in Visual Studio in this step.

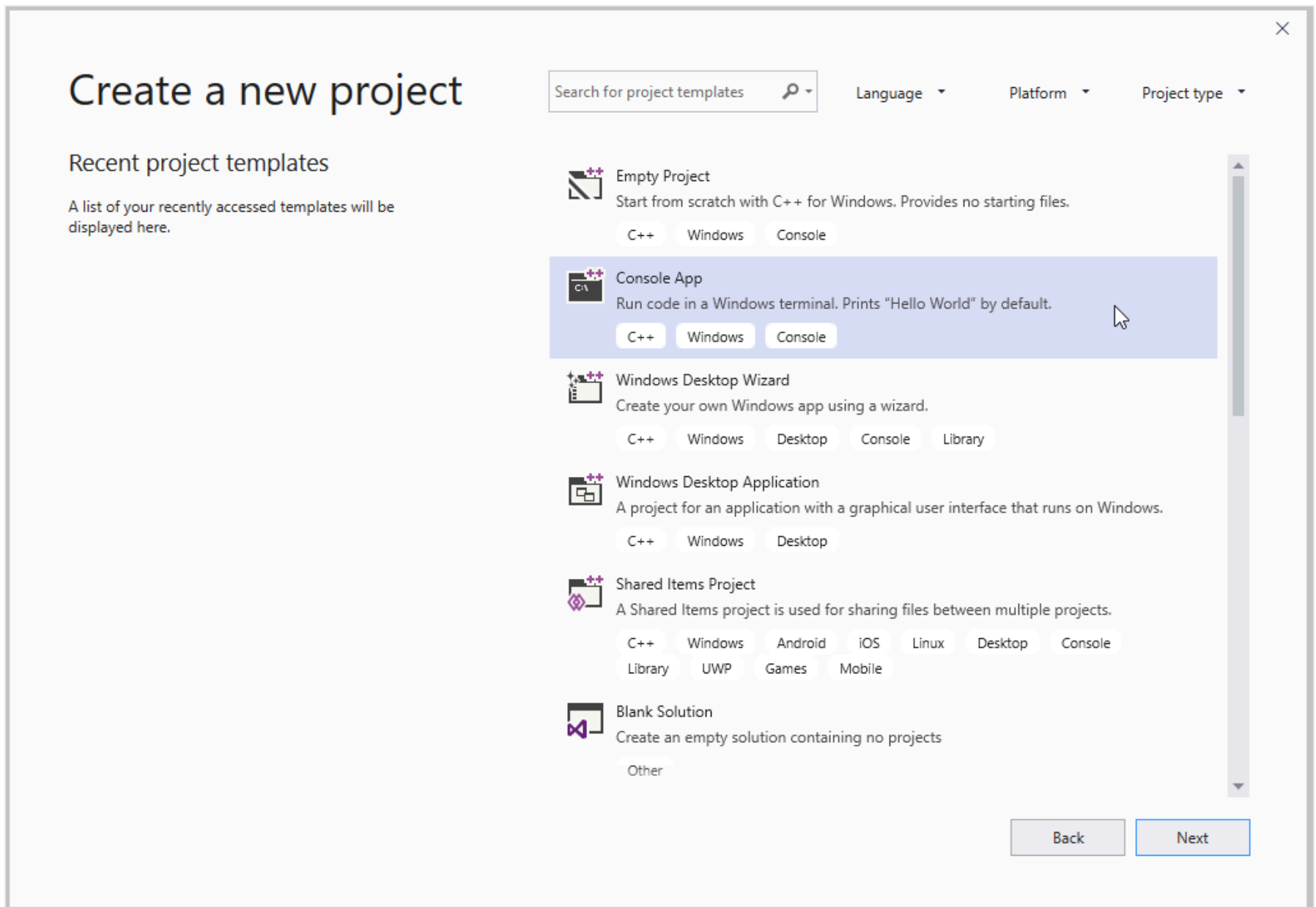
## Prerequisites

- The **Desktop development with C++** workload must be installed to make the **Console App (C++)** project type available. If it's not installed, see [Install C++ support in Visual Studio](#).

## Create your app project

Visual Studio uses *projects* to organize the code for an app, and *solutions* to organize your projects. A project contains all the options, configurations, and rules used to build your apps. It manages the relationship between all the project's files and any external files. To create your app, first, create a new project and solution.

1. In Visual Studio, open the **File** menu and choose **New > Project** to open the **Create a new Project** dialog. Select the **Console App** template that has **C++**, **Windows**, and **Console** tags, and then choose **Next**.



The **Desktop development with C++** workload must be installed for the C++ Console App template to show up. See [Install C++ support in Visual Studio](#) if you haven't already installed it.

2. In the **Configure your new project** dialog, enter *HelloWorld* in the **Project name** edit box. Choose **Create** to create the project.



# Configure your new project

Console App

C++

Windows

Console

Project name

HelloWorld

Location

C:\Users\username\source\repos

...

Solution name ⓘ

HelloWorld

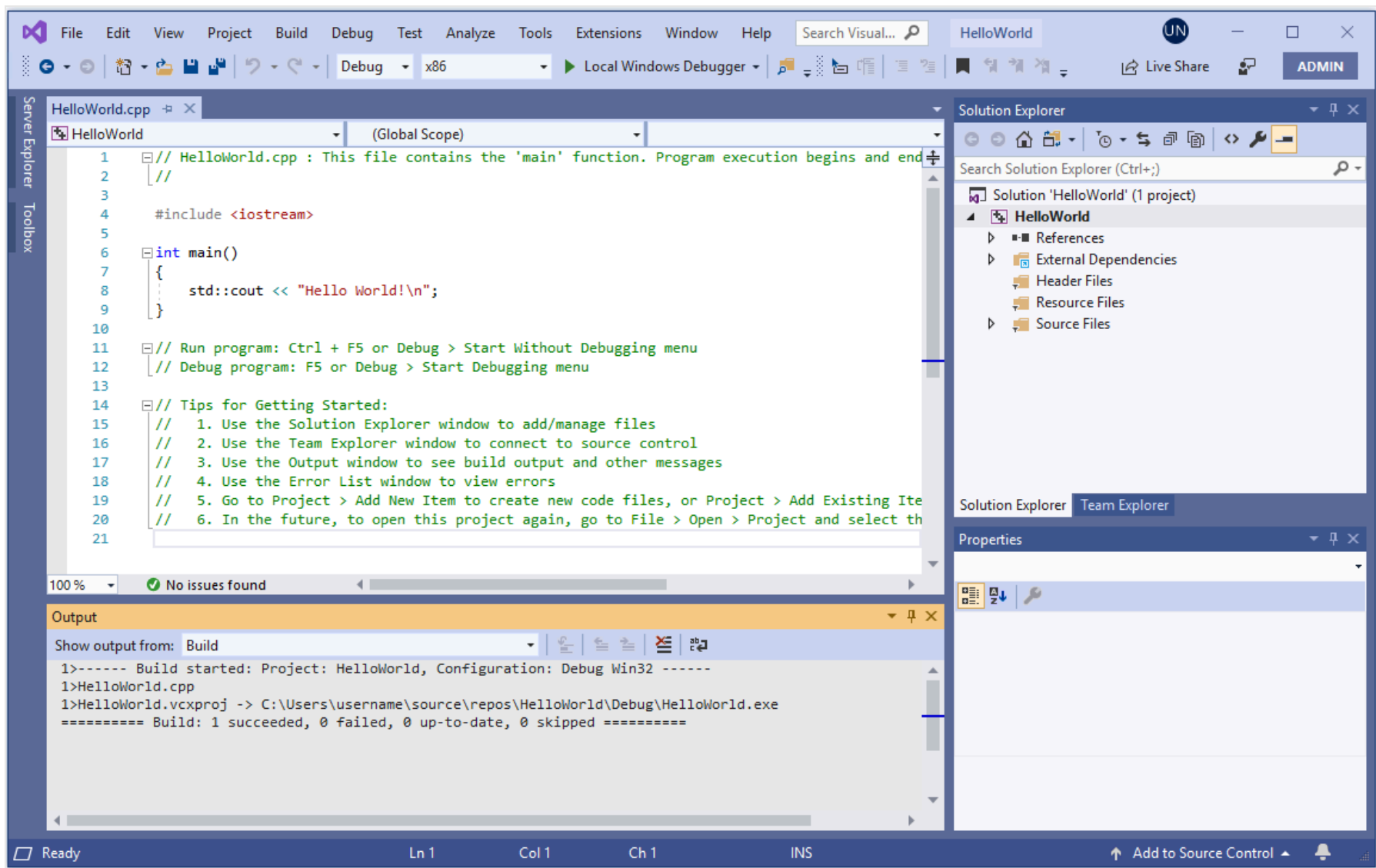
☐ Place solution and project in the same directory

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Create



Visual Studio creates a new project. It's ready for you to add and edit your source code. By default, the Console App template provides source code for a "Hello World" app, like this:



When the code looks like this in the editor, you're ready to go on to the next step and build your app.

I ran into a problem.

## Next steps

# Troubleshooting guide

Come here for solutions to common issues when you create your first C++ project.

## Create your app project: issues

The **New Project** dialog should show a **Console App** template that has **C++**, **Windows**, and **Console** tags. If you don't see it, there are two possible causes. It might be filtered out of the list, or it might not be installed. First, check the filter dropdowns at the top of the list of templates. Set them to **C++**, **Windows**, and **Console**. The C++ **Console App** template should appear; otherwise, the **Desktop development with C++** workload isn't installed.

To install **Desktop development with C++**, you can run the installer right from the **New Project** dialog. Choose the **Install more tools and features** link at the bottom of the template list to start the installer. If the **User Account Control** dialog requests permissions, choose **Yes**. In the installer, make sure the **Desktop development with C++** workload is checked. Then choose **Modify** to update your Visual Studio installation.

If another project with the same name already exists, choose another name for your project. Or, delete the existing project and try again. To delete an existing project, delete the solution folder (the folder that contains the `helloworld.sln` file) in File Explorer.

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