Get started with Git and GitHub in Visual Studio

https://docs.microsoft.com/en-us/learn/modules/visual-studio-github-push/

Authenticate to GitHub and create a repository by using the Git tooling experience in Visual Studio 2019. Add and modify files, stage and commit changes, and then finally push to your remote.

Learning objectives

By the end of this module, you'll be able to:

- Add a GitHub account to sign in to Visual Studio
- Initialize a Git repository and push it to GitHub by using Visual Studio
- Make and push commits to your remote branch

Prerequisites

- Basic understanding of Git concepts
- Familiarity with beginner Git commands
- A GitHub account
- Familiarity with Visual Studio 2019
- Visual Studio 2019 (minimum version 16.9) installed

Contents

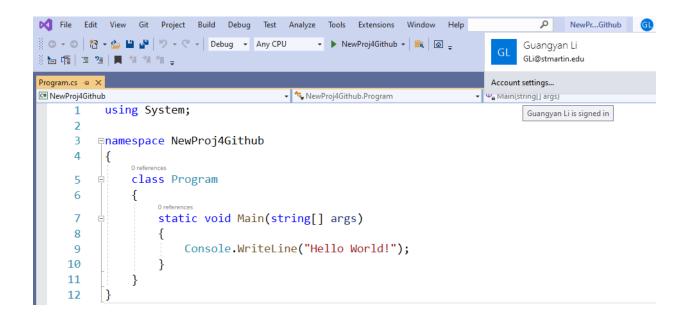
- Introduction 2 min
- Sign in to GitHub from Visual Studio 3 min
- Exercise Sign in to GitHub from Visual Studio 3 min
- Create a repository on GitHub from Visual Studio 5 min
- Exercise Create a repository on GitHub from Visual Studio 5 min
- Commit your changes 6 min
- Exercise Commit your changes 3 min
- Push changes to GitHub from Visual Studio 4 min
- Exercise Push changes to GitHub from Visual Studio 2 min
- Knowledge check3 min
- Summary2 min

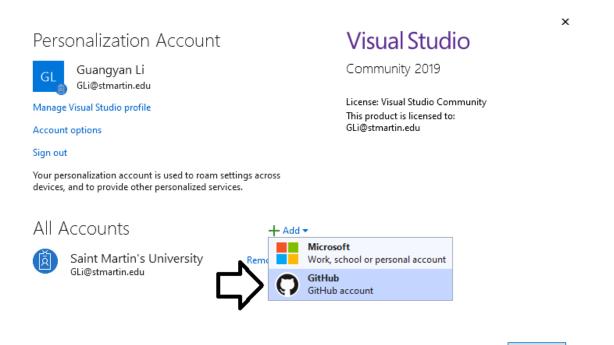
Select screen shots in the following pages:

Sign in to GitHub from Visual Studio

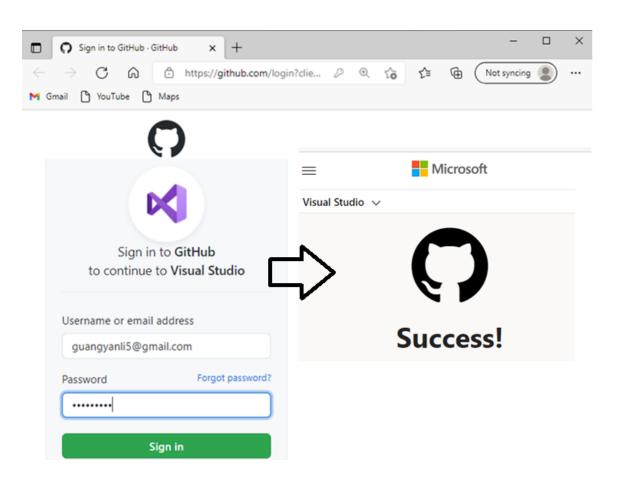
16.0.31205.134 D16.9

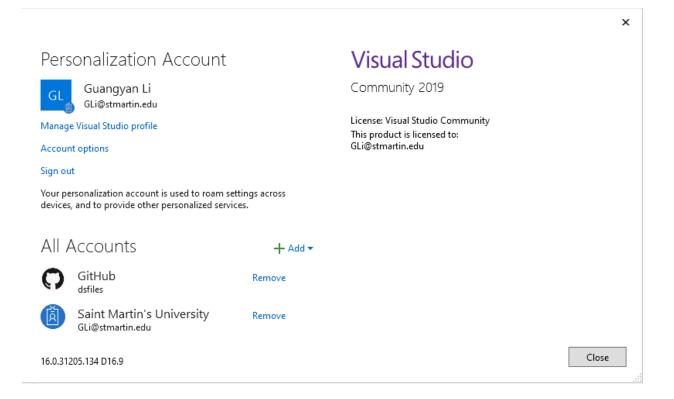
In the following, you'll use the GitHub integration in Visual Studio to sign in to GitHub, create a new repository, and push commits. And you'll do all that without leaving the IDE.





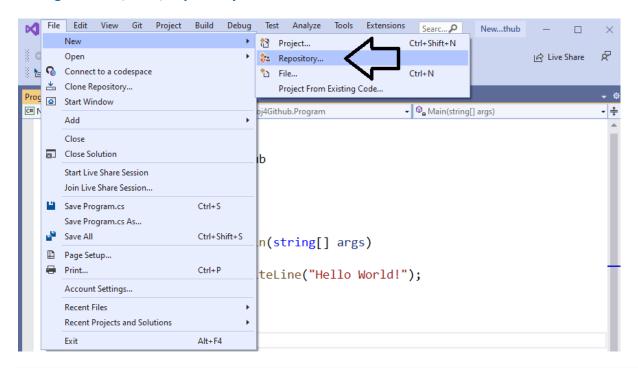
Close





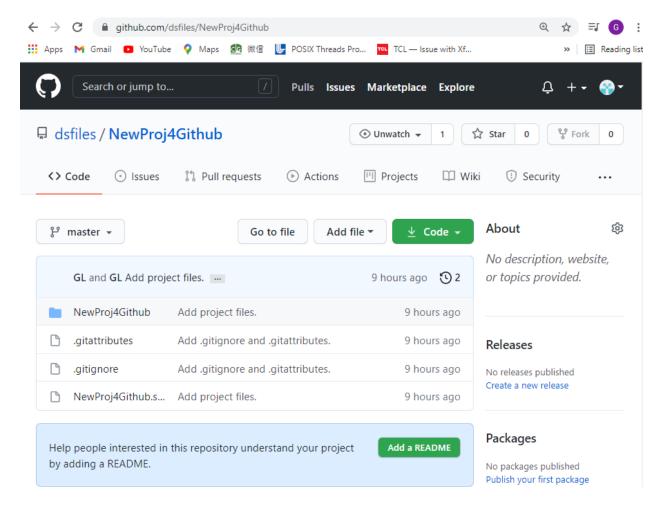
Create a repository on GitHub from Visual Studio

After you create/open a console application project, you'll initialize a Git repository at the project root directory, create a repository on GitHub, and push the repository's contents to GitHub. Visual Studio has a **Create a Git repository** dialog for these actions. You can access it through the **File/New/Repository** menu.



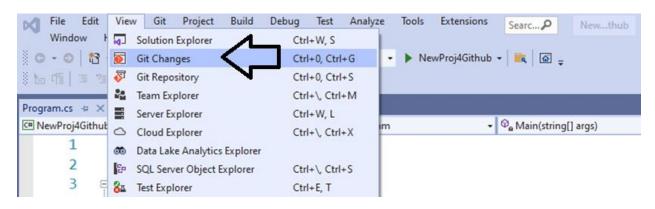
Create a Git repository Initialize a local Git repository Push to a new remote C:\Users\GL\source\repos\NewProj4Github Local path (i) GitHub Other Create a new GitHub repository Account dsfiles (GitHub) Existing remote Local only dsfiles Owner Repository name (i) NewProj4Github Description Enter the description of the repository <Optional> Private repository (i) Push your code to GitHub https://github.com/dsfiles/NewProj4Github Create and Push Cancel

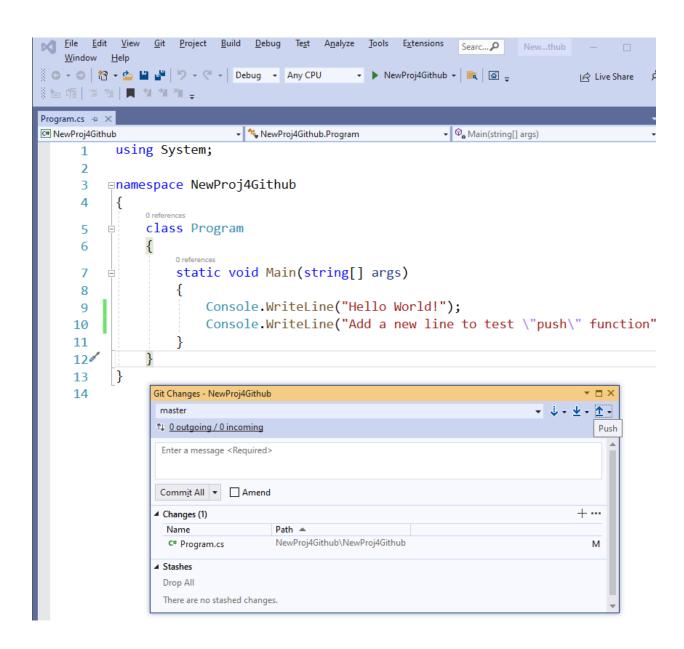
A new repository named "NewProj4Github" is created as shown below:



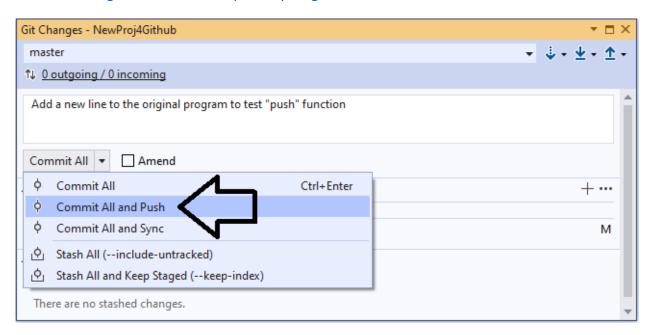
Let us revise the original "Hello World!" program:

Open "Git Changes" window to see the change:

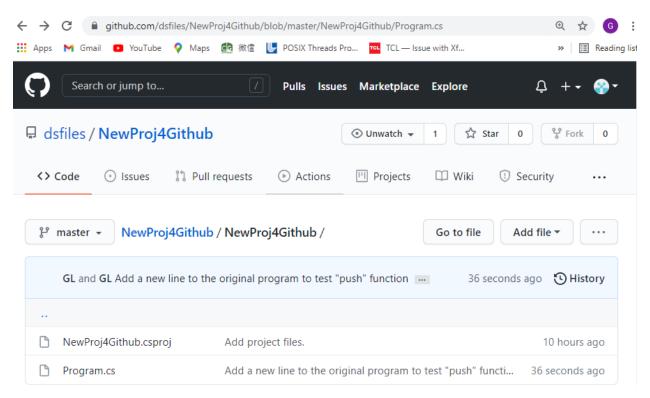




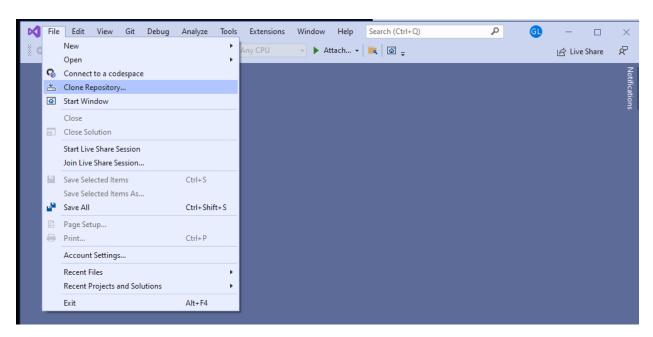
Push the change to the remote repository on github:

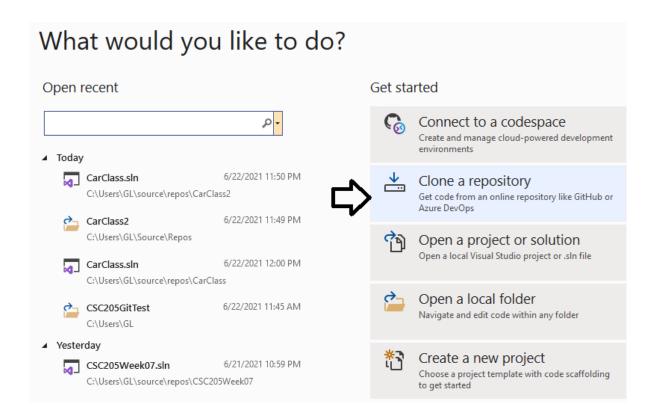


Check out the github page:

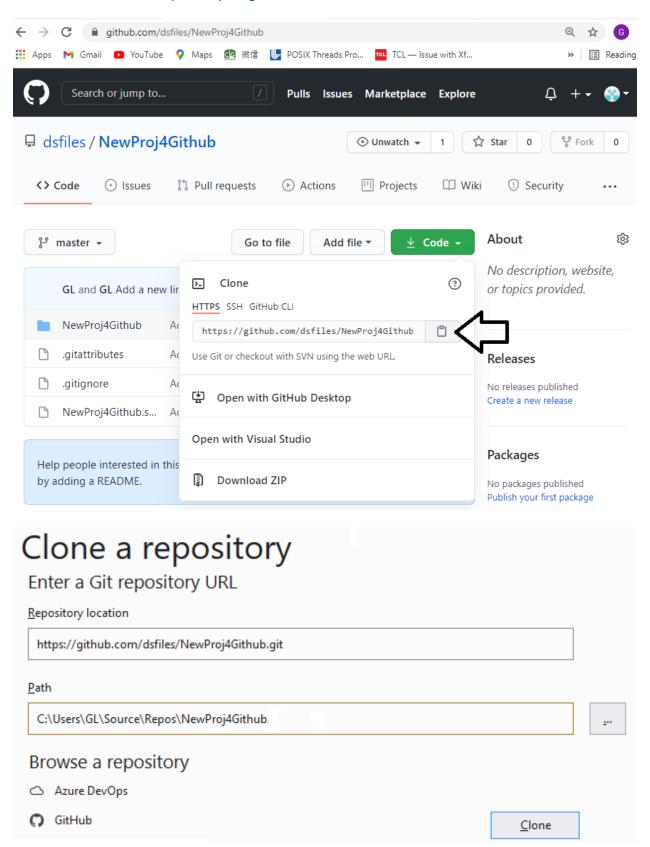


• Open a repository on GitHub from Visual Studio

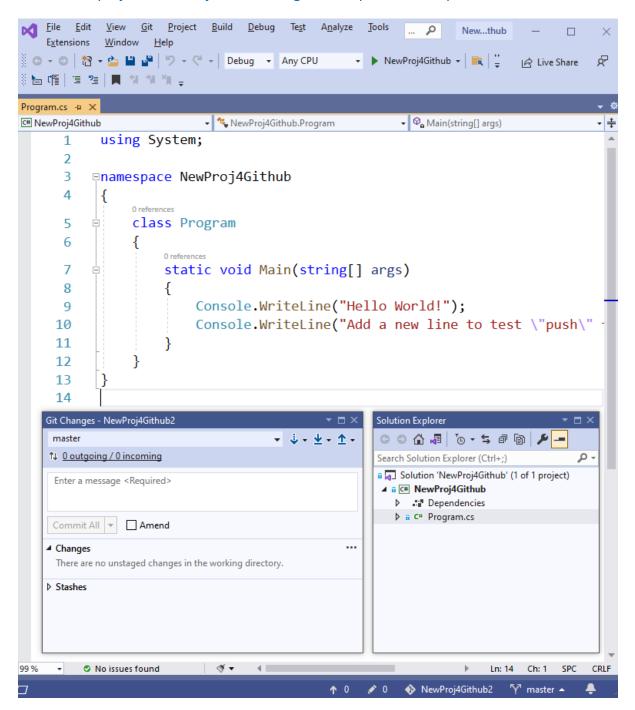




Obtain the URL of the repository on github:



The remote project "NewProj4Github" on github is "pulled" and open in Visual Studio now:



Useful resources

https://docs.microsoft.com/en-us/learn/modules/visual-studio-github-push/

https://git-scm.com/doc

https://git-scm.com/book/en/v2