

# One-time Tool Setup

## 1 One-time setup

This document consists of tool and account setup that you will use for most assignments and labs in this course.

### 1.1 Visual Studio

We will use the Visual Studio IDE for programming in F# and C# this course. The skeleton code that will be provided is a Visual Studio project and it offers quick git integration.

If you are developing on a Linux or Mac machine, seek out the Visual Studio Code download or Visual Studio for Mac download, respectively.

#### 1.1.1 Windows Installation

##### Tested and works on Windows 10

Download the most current version of “Visual Studio 2022 **Community** edition” (17.5) at <https://visualstudio.microsoft.com/downloads/>. Run the installer exe and make sure that the following components are selected.

- .NET desktop development (in Workloads)
- ‘F# desktop language support’ (in Individual components)
- Git for Windows (in Individual components)

You can uncheck the other components as they are not necessary for the work we will do.

### 1.2 Github

For this course, you will be accessing and submitting code with Github, from the **comp3350-fk-su23** classroom. Whether or not you already have a Github account, you must use one for this class with the username “<WITname>atwit”. If your name/email is John Doe `doej12@wit.edu`, your Github username should be `doej12atwit`. If you don’t yet have an account with this name, sign up for a new account at <https://github.com>. If you already have an account, you can change the username to match this one. **You will get no credit for code that is submitted under another Github username.**

### 1.3 Github username

Double-check your Github username. If it is not your WIT username followed by “atwit” (all lower case), change it to that now. Without the proper username you will get **no credit** for your assignments.

### 1.4 Connecting Github to Visual Studio

You need to give Visual Studio permissions to access your Github account once. Follow these steps to make that connection:

1. In Visual Studio, go to the ‘Git’ menu → ‘Clone repository...’
2. In the window that opens, find the ‘Github’ link in the ‘Browse a repository’ section
3. In the upper right corner of the new window, select a Github account under the ‘Add an account’ section
4. Your browser should bring you to a Github login page. Login there
5. Visual Studio should be authenticated, so you can clone the repositories for the class following normal setup