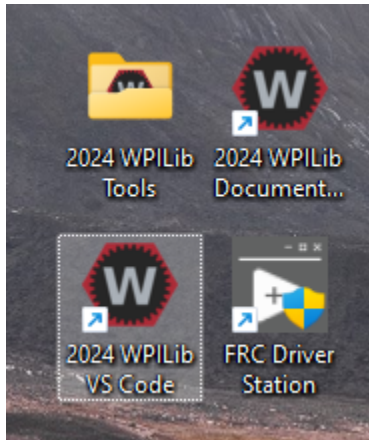


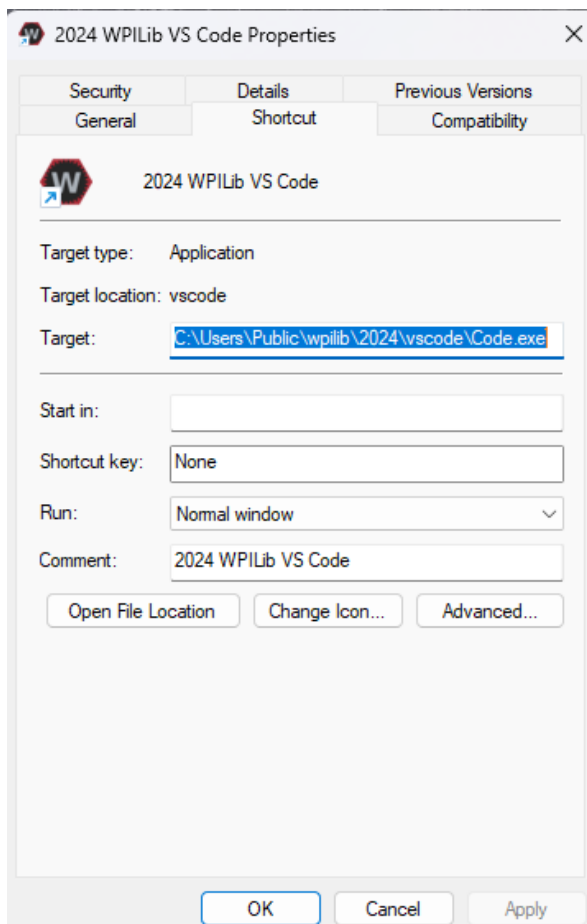
WPILib:

Remove old versions:

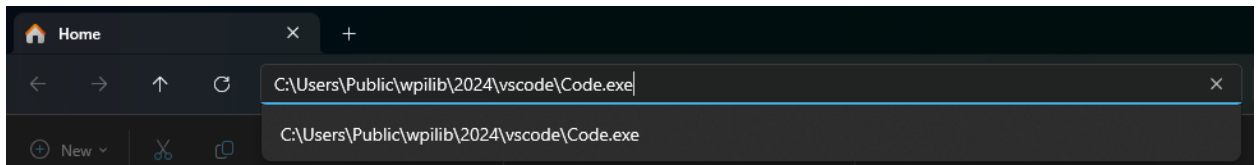
1. Right click on the desktop shortcut, select Properties



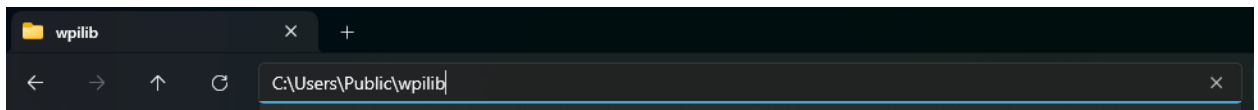
2. Copy the path under “Target”



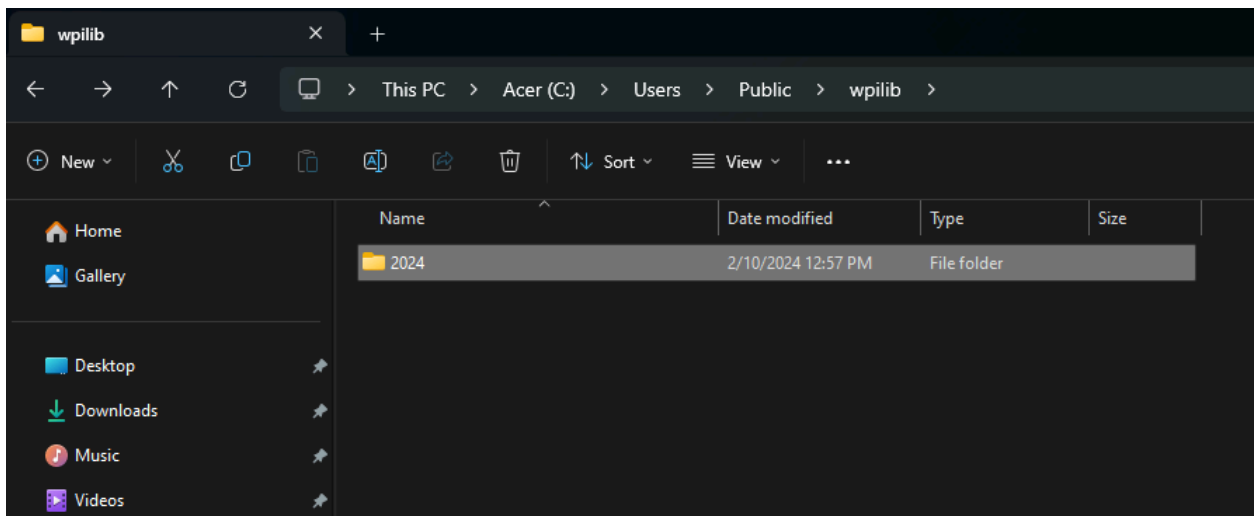
- Open file explorer and paste the path you have just copied, before pressing enter make sure to modify the path:



- Delete the following at the end of the path: “\YYYY\vscode\Code.exe”
YYYY represents the year of the previous installation.

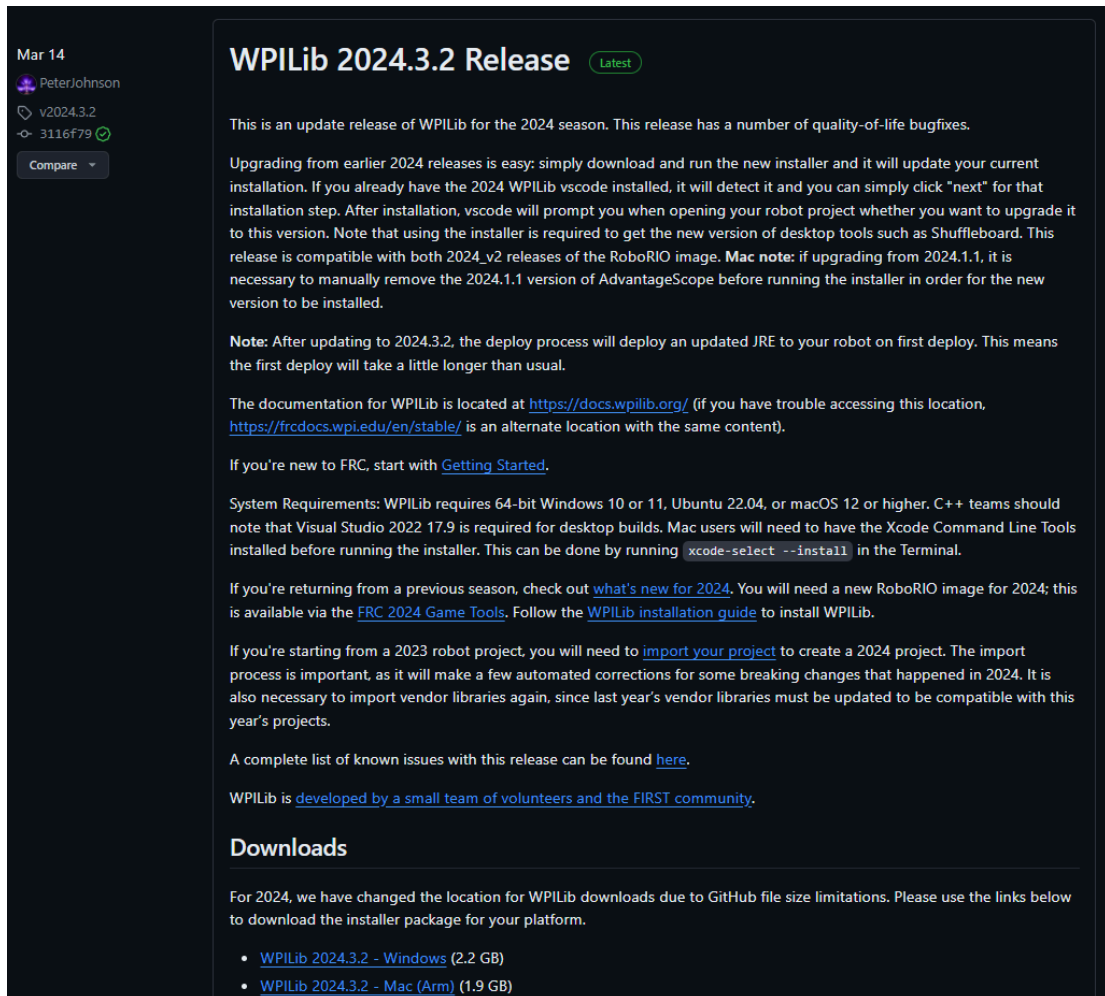


- Finally delete all the folders in the directory.
If you get an error telling you that this folder is in use, restart your pc and try again.



Install new version:

1. Go to: <https://github.com/wpilibsuite/allwpilib/releases/> and locate the latest release.



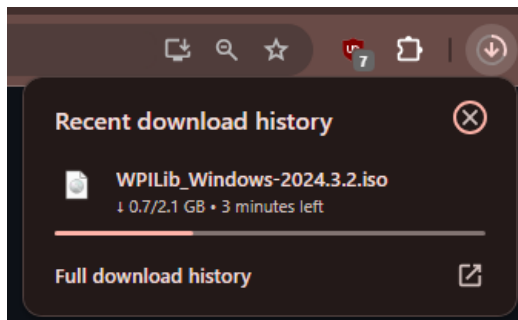
The screenshot shows the GitHub release page for WPILib 2024.3.2. The page is titled "WPILib 2024.3.2 Release" with a "Latest" badge. The release date is March 14, 2024, by PeterJohnson. The commit hash is v2024.3.2 (3116f79). The release description states: "This is an update release of WPILib for the 2024 season. This release has a number of quality-of-life bugfixes. Upgrading from earlier 2024 releases is easy: simply download and run the new installer and it will update your current installation. If you already have the 2024 WPILib vscode installed, it will detect it and you can simply click 'next' for that installation step. After installation, vscode will prompt you when opening your robot project whether you want to upgrade it to this version. Note that using the installer is required to get the new version of desktop tools such as Shuffleboard. This release is compatible with both 2024_v2 releases of the RoboRIO image. Mac note: if upgrading from 2024.1.1, it is necessary to manually remove the 2024.1.1 version of AdvantageScope before running the installer in order for the new version to be installed. Note: After updating to 2024.3.2, the deploy process will deploy an updated JRE to your robot on first deploy. This means the first deploy will take a little longer than usual. The documentation for WPILib is located at <https://docs.wpilib.org/> (if you have trouble accessing this location, <https://frcdocs.wpi.edu/en/stable/> is an alternate location with the same content). If you're new to FRC, start with [Getting Started](#). System Requirements: WPILib requires 64-bit Windows 10 or 11, Ubuntu 22.04, or macOS 12 or higher. C++ teams should note that Visual Studio 2022 17.9 is required for desktop builds. Mac users will need to have the Xcode Command Line Tools installed before running the installer. This can be done by running `xcode-select --install` in the Terminal. If you're returning from a previous season, check out [what's new for 2024](#). You will need a new RoboRIO image for 2024; this is available via the [FRC 2024 Game Tools](#). Follow the [WPILib installation guide](#) to install WPILib. If you're starting from a 2023 robot project, you will need to [import your project](#) to create a 2024 project. The import process is important, as it will make a few automated corrections for some breaking changes that happened in 2024. It is also necessary to import vendor libraries again, since last year's vendor libraries must be updated to be compatible with this year's projects. A complete list of known issues with this release can be found [here](#). WPILib is [developed by a small team of volunteers and the FIRST community](#).

Downloads

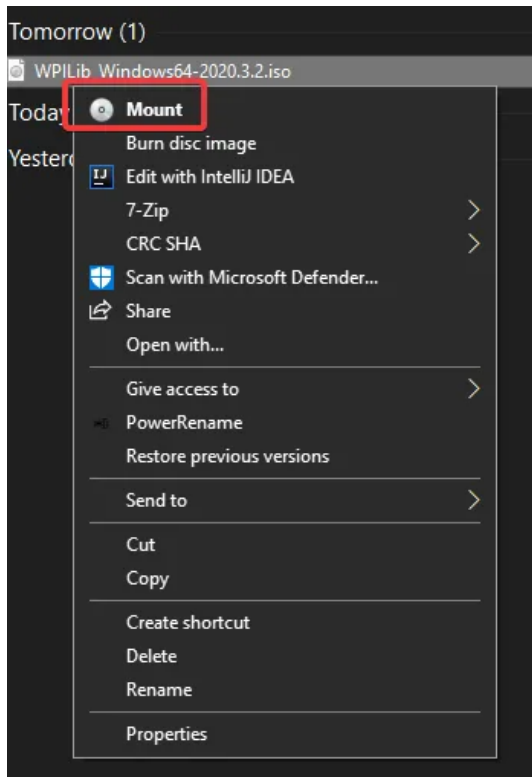
For 2024, we have changed the location for WPILib downloads due to GitHub file size limitations. Please use the links below to download the installer package for your platform.

- [WPILib 2024.3.2 - Windows](#) (2.2 GB)
- [WPILib 2024.3.2 - Mac \(Arm\)](#) (1.9 GB)

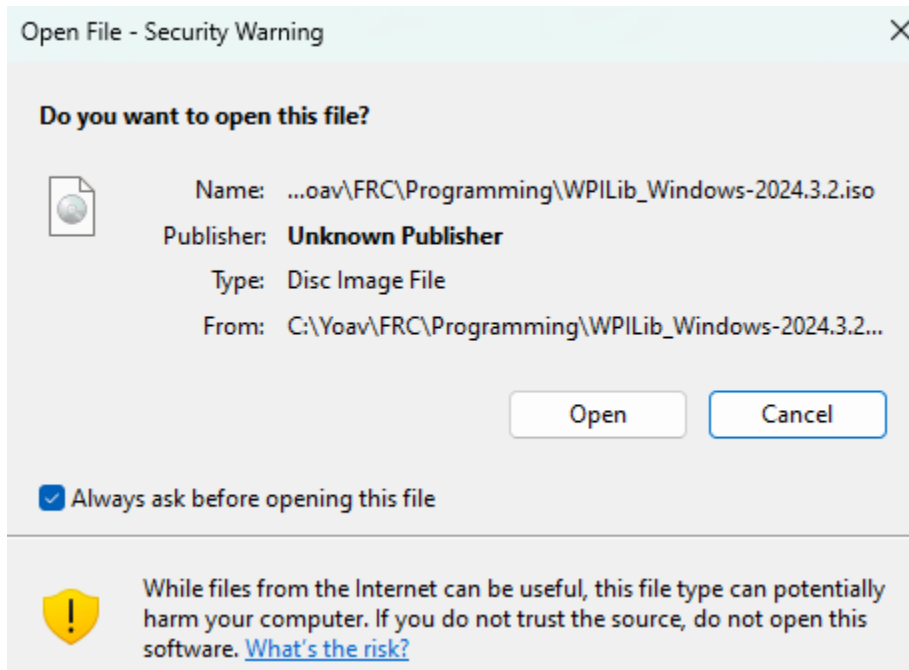
2. Select the windows installer and wait for it to finish downloading









3. Locate the downloaded file, right click on it and select “Mount”



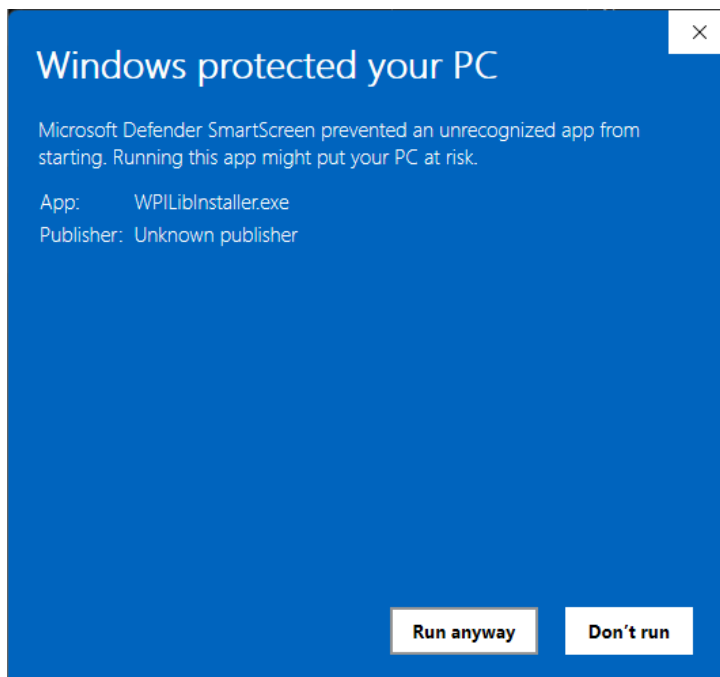
4. Ignore those warnings and click Open.



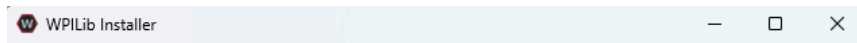
5. Double click to open the WPILibInstaller.

Name	Date modified	Type	Size
 libHarfBuzzSharp.dll	3/14/2024 7:41 AM	Application exten...	894 KB
 libSkiaSharp.dll	3/14/2024 7:41 AM	Application exten...	9,189 KB
 WPILibInstaller	3/14/2024 7:41 AM	Application	41,596 KB
 WPILibInstallerVersion	3/14/2024 7:41 AM	Text Document	1 KB
 WPILibInstaller_Windows-2024.3.2-resour...	3/14/2024 7:41 AM	Compressed (zipp...	2 KB
 WPILib_Windows-2024.3.2-artifacts	3/14/2024 7:45 AM	Compressed (zipp...	2,162,980 KB

6. If you get this warning (because windows doesn't recognize the publisher of this installer) select "More info" and "Run anyway"



- Continue the installation select “Everything”, “Install for this User”, “Download for this computer only (fastest)”.



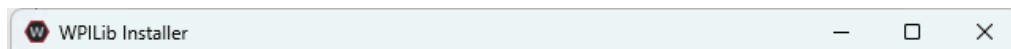
Select the install mode you would like.

- ☐ Tools Only
☒ Everything

Install for this User

Install for all Users

Back



Download for this computer only
(fastest)

Skip and don't use VS Code
(NOT RECOMMENDED)

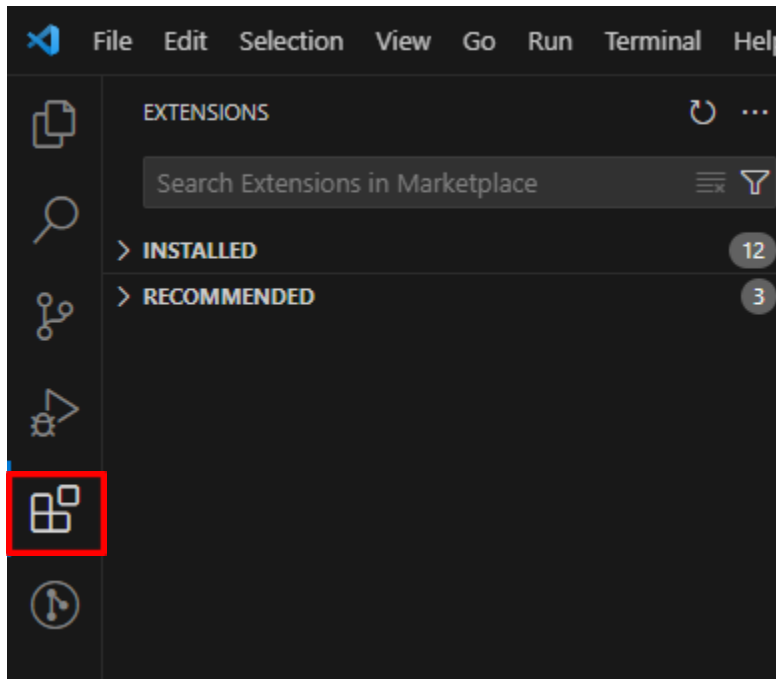
Download VS Code archives to share with
other computers/OSes for offline
install

Select existing VS Code archive for
offline install on this computer

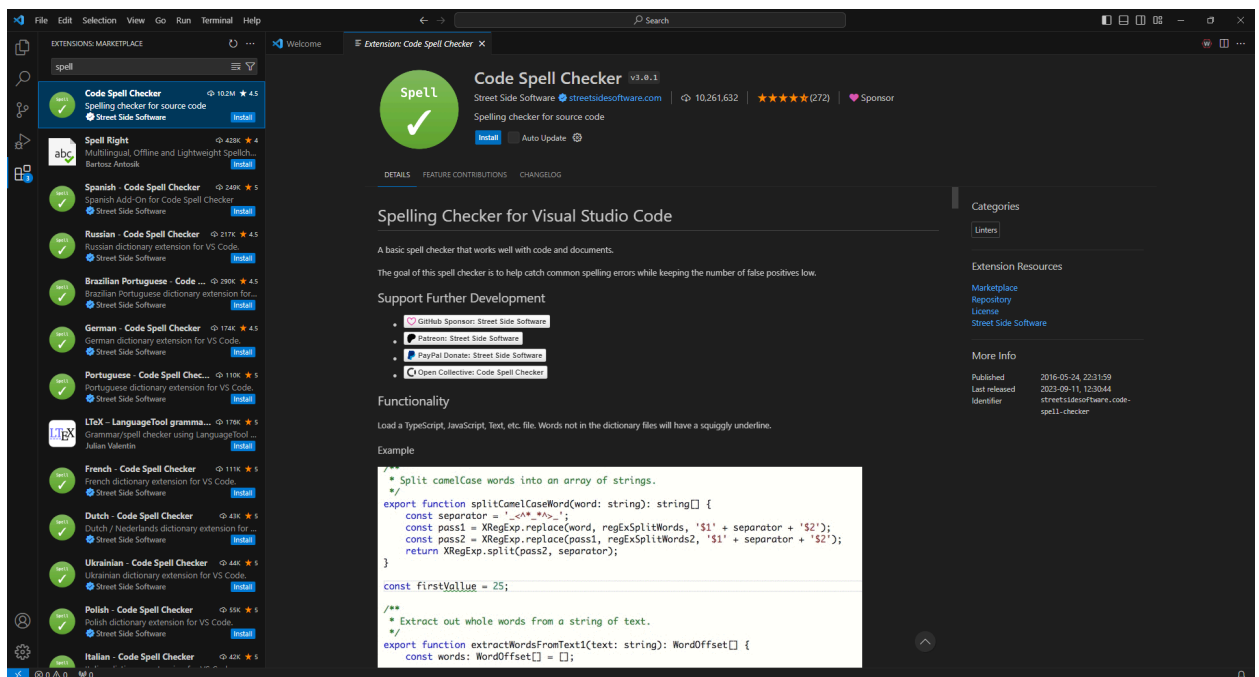
Back

- After the installation is finished open “wpilib VS Code”

9. On the left sidebar go to “Extensions”

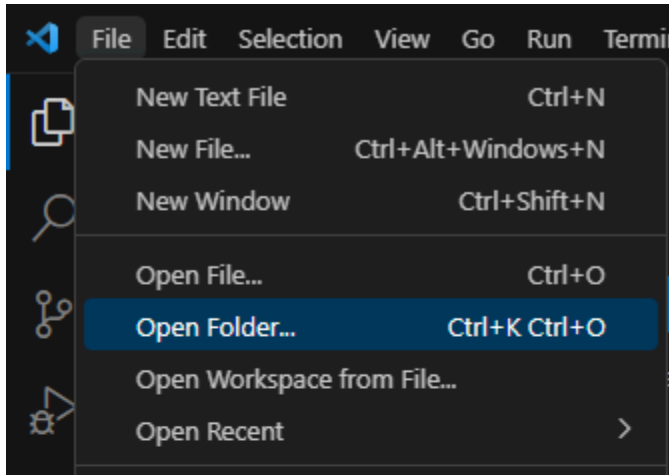


10. Install the following extension:
Code Spell Checker



Verify Installation:

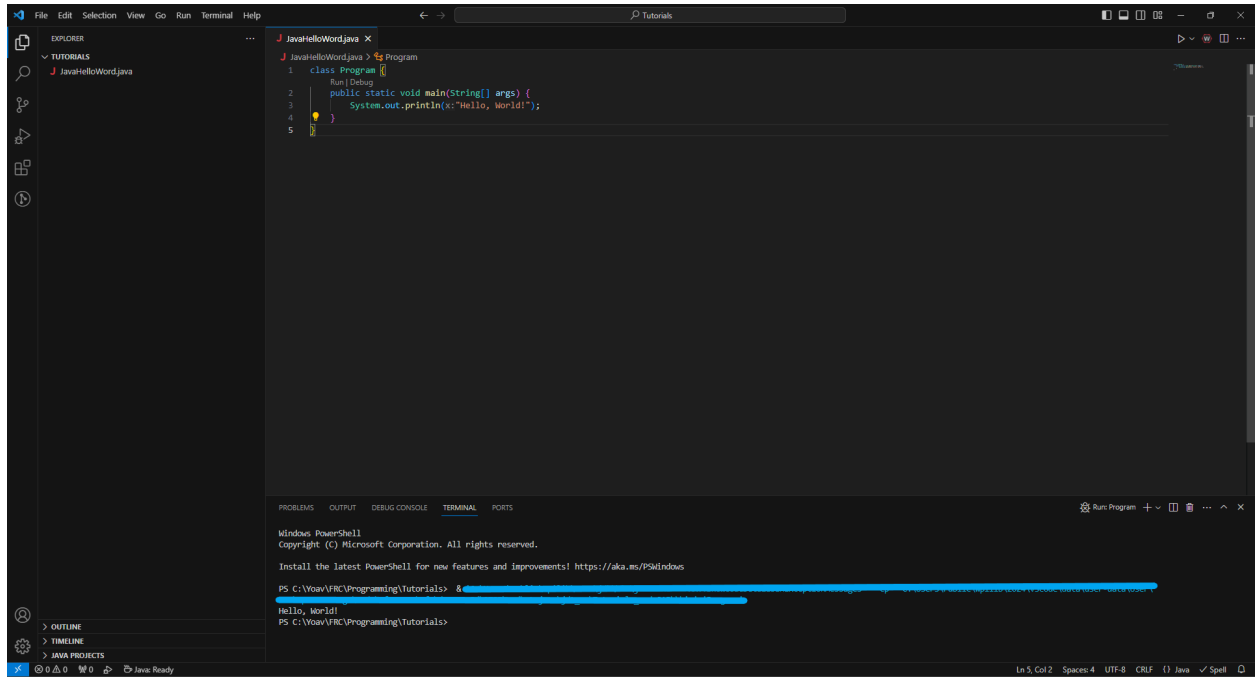
1. Create a new directory in file explorer, keeping everything organized is **required!**
Your directory should look something like this:
“C:\Yoav\FRC\Programming\Tutorials”
2. In WPI vs code got to: File - Open Folder



3. Select the directory you have just created and click Open.
4. Create a new file with right click or double click.
5. Name it “JavaHelloWord.java”, it is important to include the “.java” ending
6. Copy paste the following code into the file:

```
class Program {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

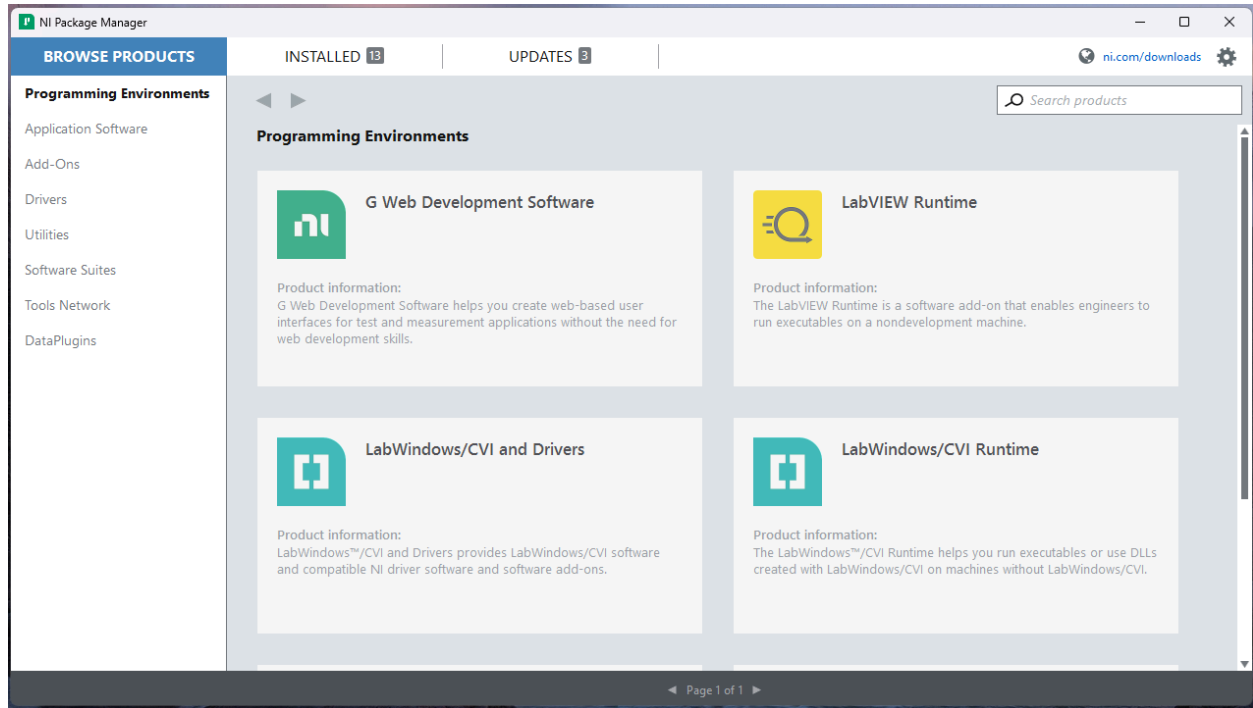

7. Run the code with the play button or Ctrl+f5
8. It should look something like this:



NI Game Tools:

Update old versions:

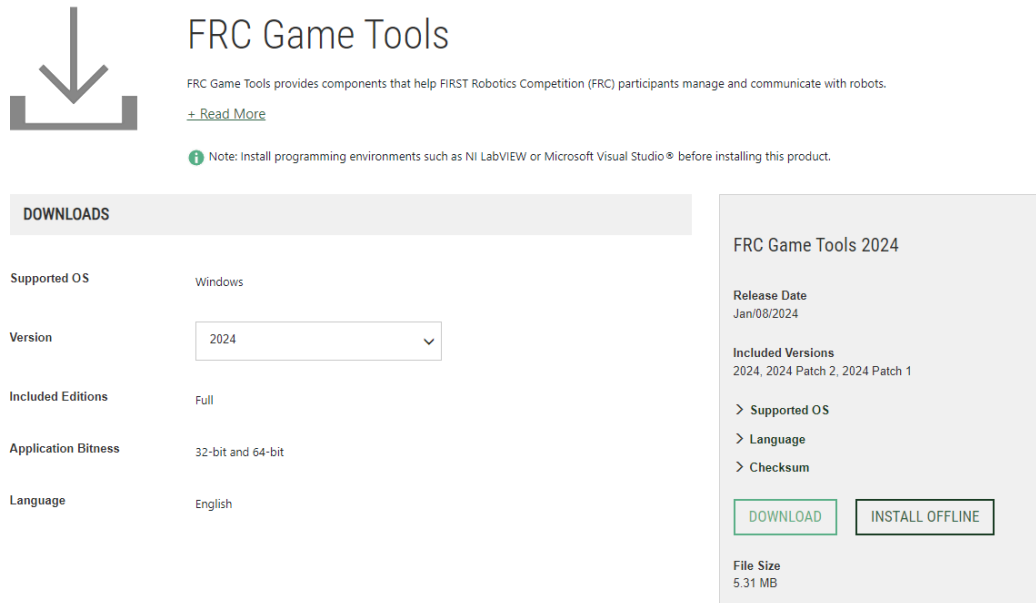
1. Open the application “NI Package Manager”



2. Go to “UPDATES”
3. Select all and click “Update”

Install from scratch:

1. Go to: [FRC Game Tools Download - NI](#)



The image shows the FRC Game Tools download page. It features a large download icon, the title 'FRC Game Tools', and a brief description. A note indicates that programming environments like NI LabVIEW or Microsoft Visual Studio should be installed before this product. The 'DOWNLOADS' section lists specifications: Supported OS (Windows), Version (2024), Included Editions (Full), Application Bitness (32-bit and 64-bit), and Language (English). A right-hand panel provides details for 'FRC Game Tools 2024', including the release date (Jan/08/2024), included versions (2024, 2024 Patch 2, 2024 Patch 1), and expandable sections for Supported OS, Language, and Checksum. At the bottom of this panel are 'DOWNLOAD' and 'INSTALL OFFLINE' buttons, and the file size is listed as 5.31 MB.

FRC Game Tools

FRC Game Tools provides components that help FIRST Robotics Competition (FRC) participants manage and communicate with robots.

[+ Read More](#)

Note: Install programming environments such as NI LabVIEW or Microsoft Visual Studio® before installing this product.

DOWNLOADS

Supported OS	Windows
Version	2024
Included Editions	Full
Application Bitness	32-bit and 64-bit
Language	English

FRC Game Tools 2024

Release Date
Jan/08/2024

Included Versions
2024, 2024 Patch 2, 2024 Patch 1

> **Supported OS**

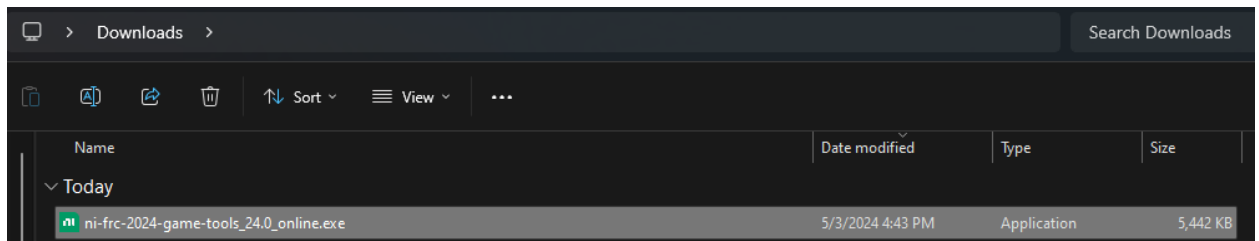
> **Language**

> **Checksum**

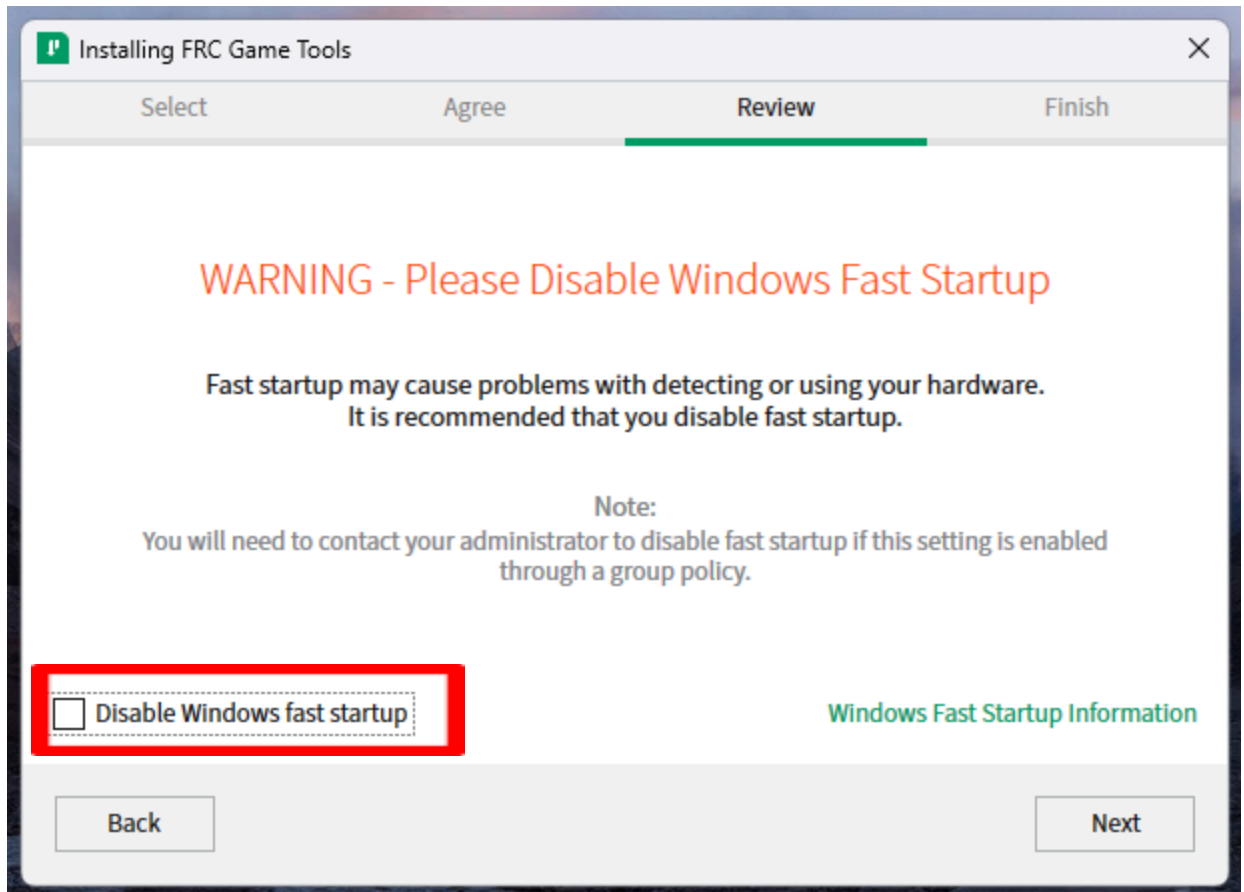
DOWNLOAD **INSTALL OFFLINE**

File Size
5.31 MB

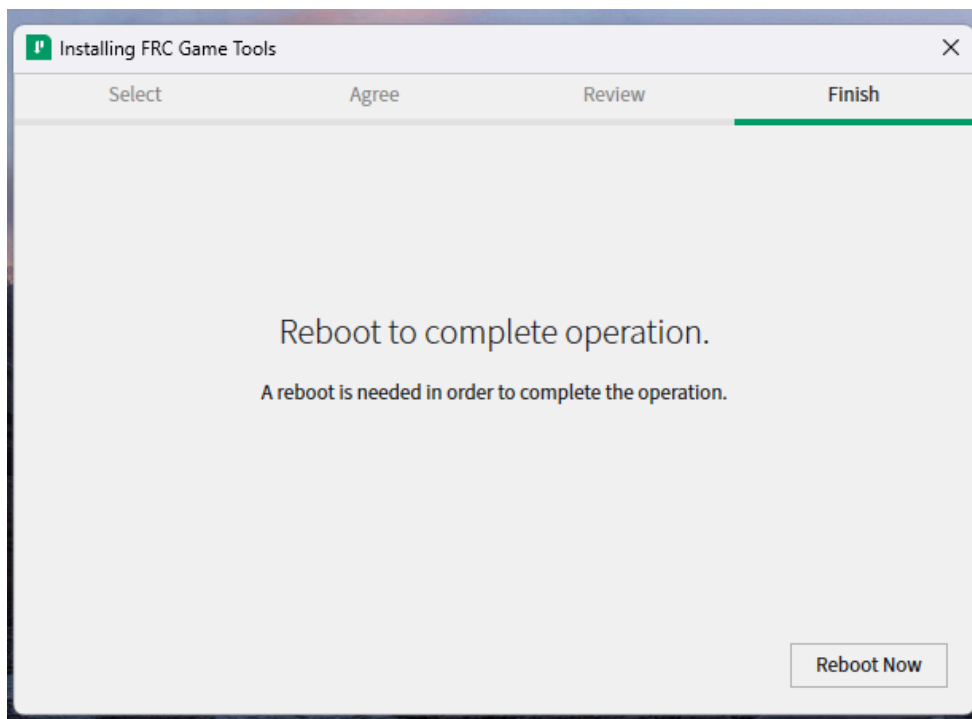
2. Click on “DOWNLOAD”
3. Open the Installer



4. MAKE SURE TO DESELECT THE FOLLOWING CHECKBOX WHEN RUNNING THROUGH THE INSTALLATION:

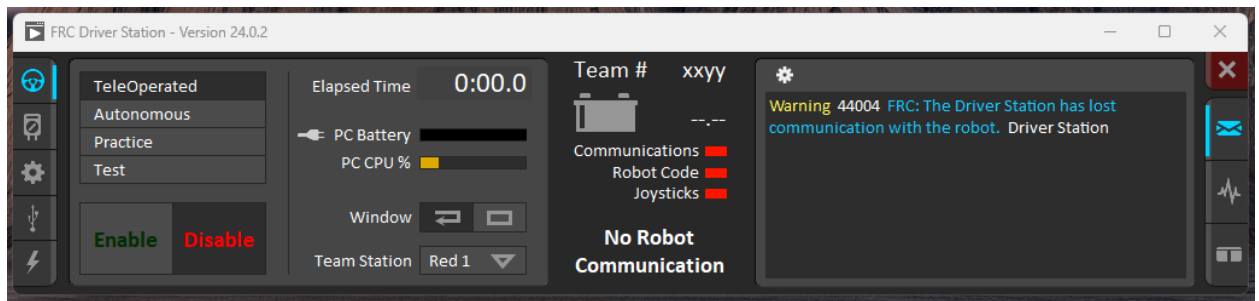


5. After installing you are required to reboot your pc



Verify Installation:

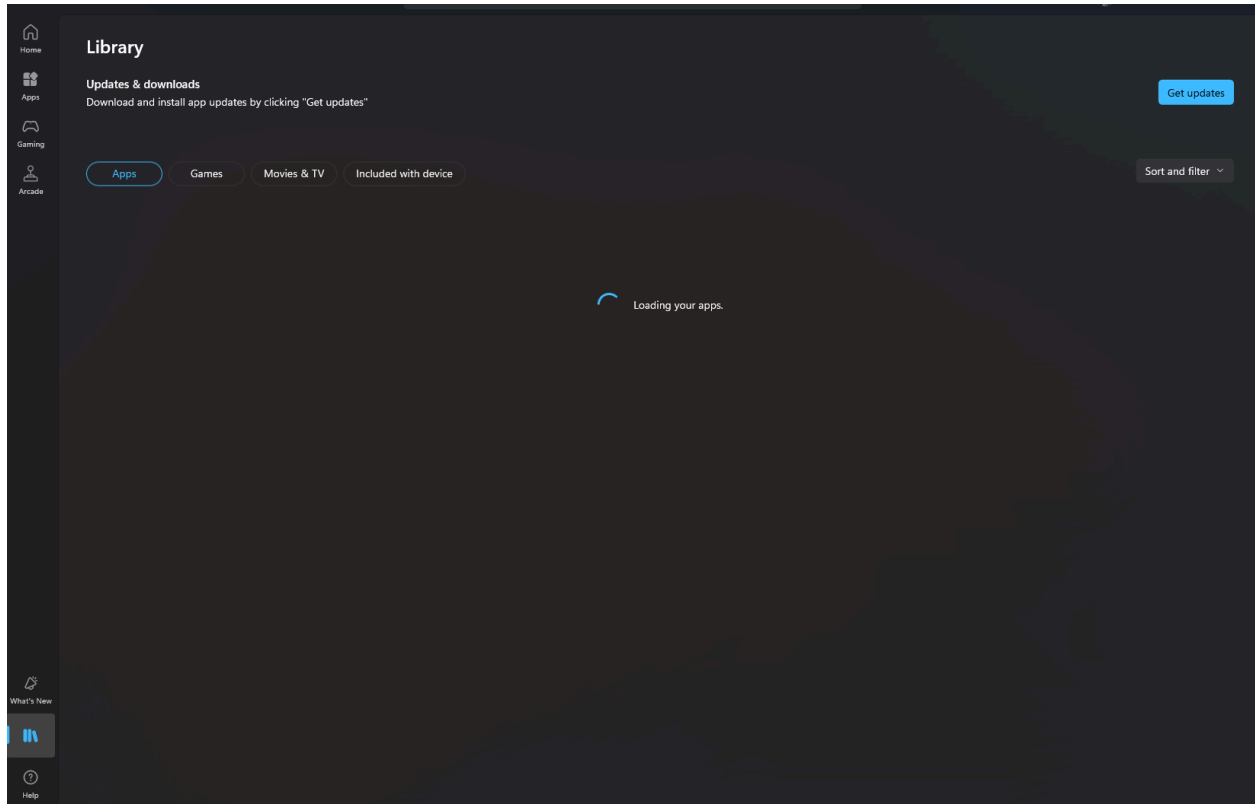
1. Open Driver Station, it should look like this:



Phoenix Tuner X:

Update current version:

1. Open Microsoft store and navigate to “Library”

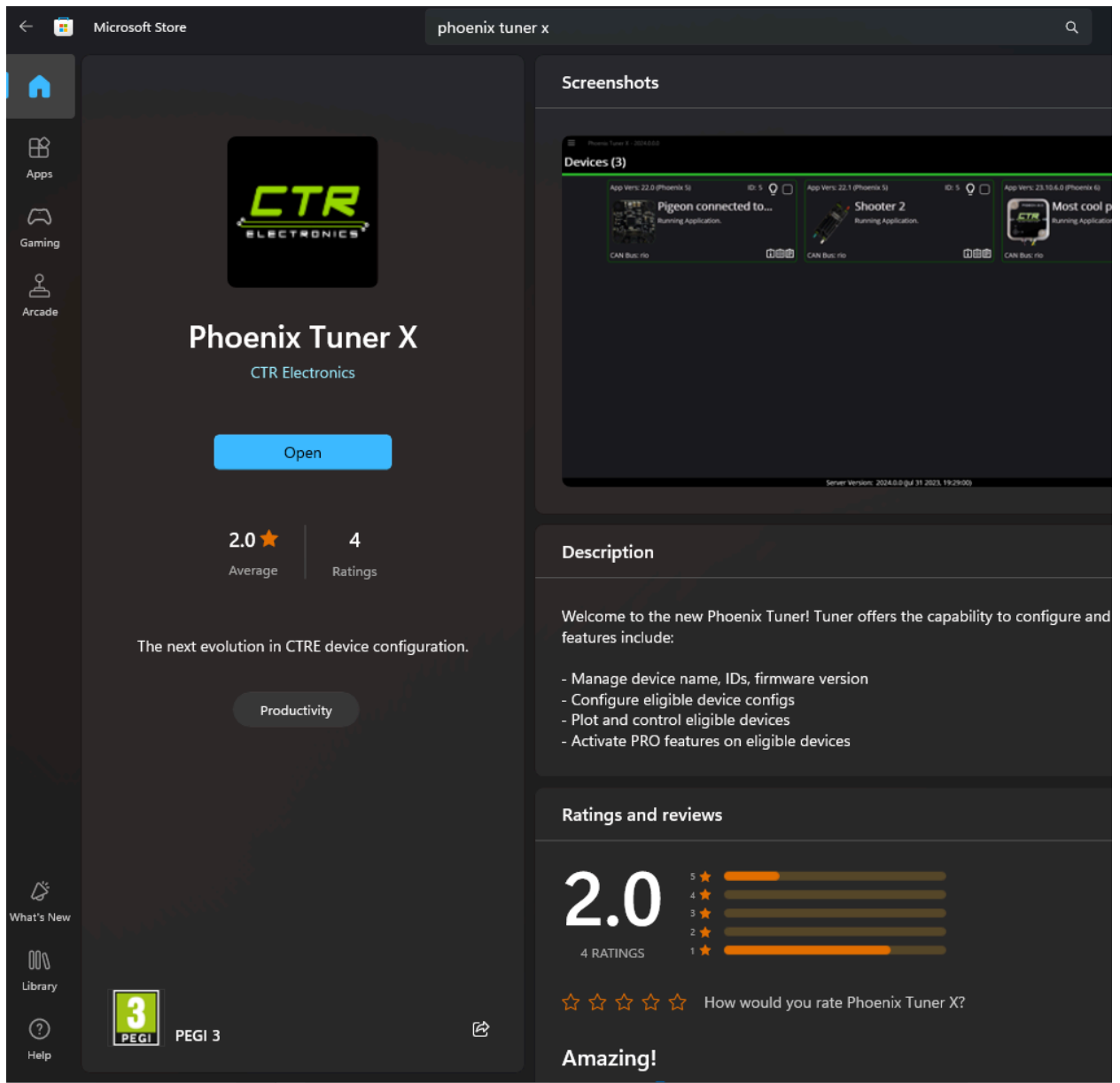


2. Find Tuner X and click “Update”



Install from scratch:

1. Open Microsoft store and find “Phoenix tuner x”



2. Click “Get” (or “Install”)

Verify Installation:

1. Open Phoenix Tuner X:

