

## [STM32C0 Workshop - Installation Procedure \(v1.0\)](#)

Welcome to the STM32C0 Workshop!

Please follow all installation steps below before the day of the Workshop.

### [STM32C0 Workshop – Requirements](#)

#### **Important:**

You need to have administration rights to be able to install drivers and software and also to do the workshop.

#### **System requirements:**

Windows® 10 and later or MacBook running Windows using Parallels, VM Fusion

#### **Minimum Recommended Hardware Requirements:**

- Micro USB Cable
- 2+ GHz processor
- 4 GB of system memory (RAM)
- 7 GB of available disk space

Note : For machines with USB Type C, please bring a Type A to Type C adapter.

## STM32C0 Workshop - Installation Procedure – Introduction:

In the following installation procedure, you are going to install the following Software/Tools/Libraries that are needed for the Workshop:

- **STM32CubeIDE**: version 1.10.1 minimum required, if you have a previous version you will need to install a new version as explained in this installation procedure.
- **STM32CubeProgrammer**: version 2.10.0 minimum required, if you have a previous version you will need to install a new version as explained in this installation procedure.
- **STM32CubeC0**: version 1.0.0 minimum required, if you have a previous version you will need to install a new one as explained in this installation procedure.

### **Notes:**

- 1- Some of the versions of the software and libraries on our website might have newer version than the version seen in the document, please use the latest version from the links provided in the installation procedure below.**
- 2- The look of our website is changing but the links provided in this document remain the same.**

**The entire installation procedure can take several hours (downloading and installing).**

## [STM32C0 Workshop - Installation Procedure](#)

For the Workshop installation please follow the steps below:

### 1- **STM32CubeIDE**: STM32Cube initialization code generator

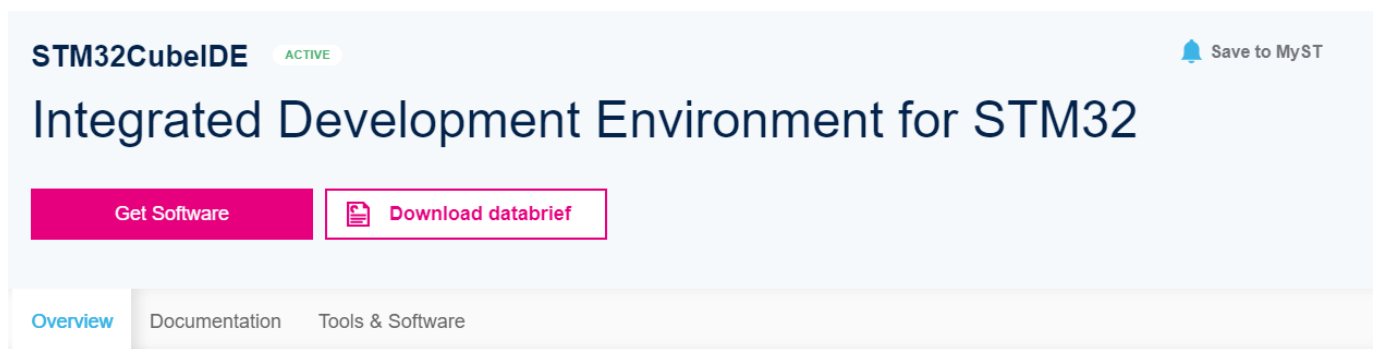
Click Link: [STM32CubeIDE](#)

Minimum version to be installed: 1.10.1

Or use Direct Install Link:

[STM32CubeIDE - Integrated Development Environment for STM32 - STMicroelectronics](#)

In the web browser, a similar page will come up:



## Product overview

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### Description

STM32CubeIDE is an all-in-one multi-OS development tool, which is part of the STM32Cube software ecosystem. STM32CubeIDE is an advanced C/C++ development platform with peripheral configuration, code generation, code compilation, and debug features for STM32 microcontrollers and microprocessors. It is based on the



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Click on “Get Software” button:

Assuming you have a Windows-based machine click on “Get Latest” below:

+	STM32CubeIDE-Win	STM32CubeIDE Windows Installer	ST	Get latest	Select version ▾
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Click on the check box:

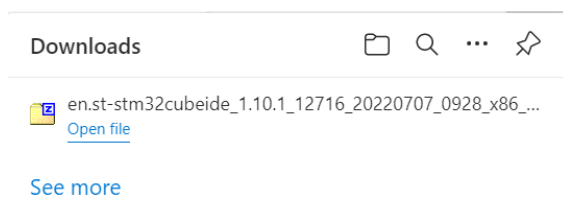
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The software will automatically download in your browser.


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If not click "Get Software"



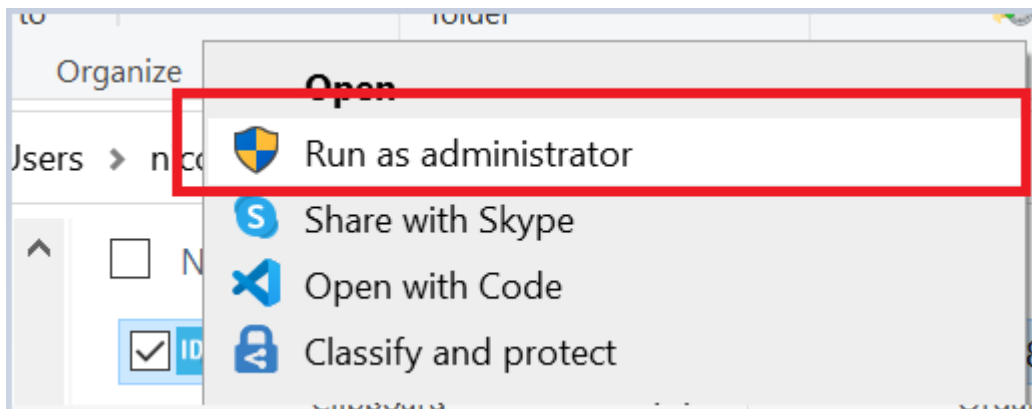
Unzip the file (en.st-stm32cubeide\_x.x.x\_xxxx.zip) and you will see this:

☐ Name

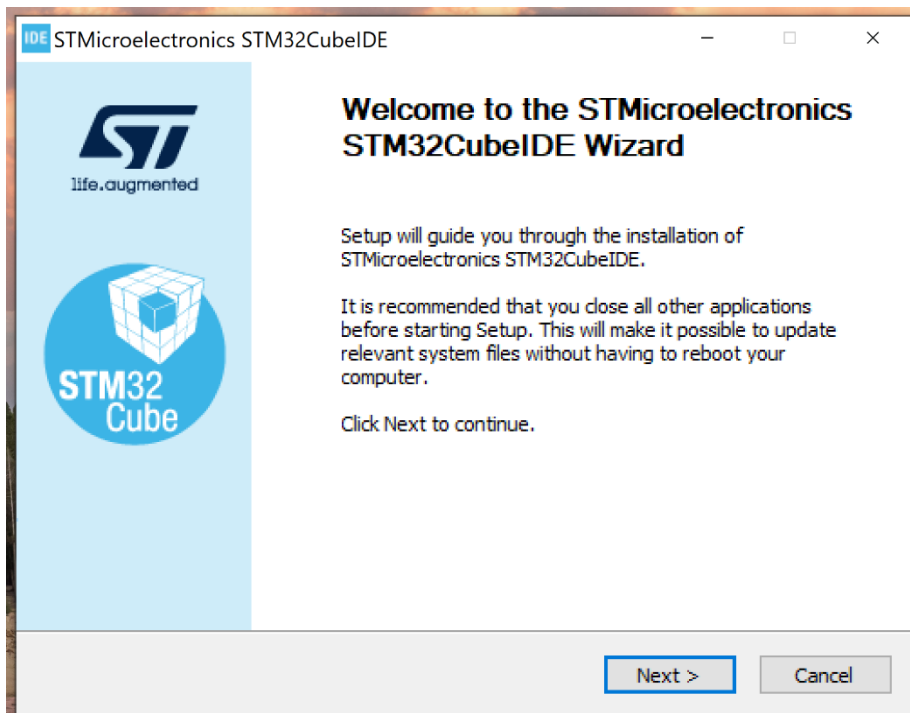
 st-stm32cubeide\_1.10.1\_12716\_20220707\_0928\_x86\_64.exe

Note: you may see a newer version in your case than the screenshot above.

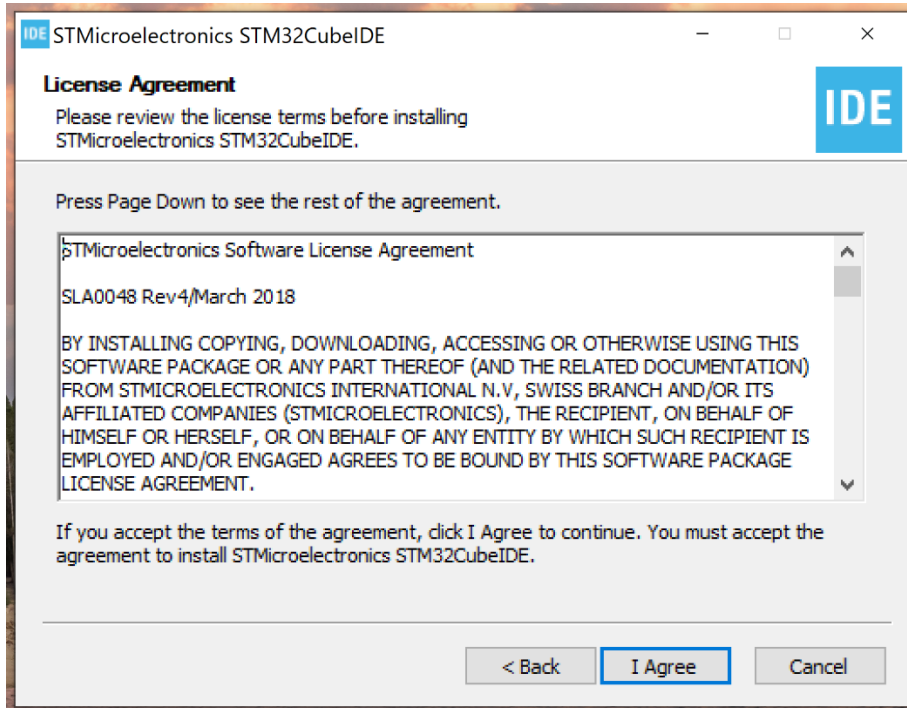
Right Click on 'st-stm32cubeide\_x.x.x\_yyy\_x86\_64.exe' (x.x.x is the version number) and Run as administrator:



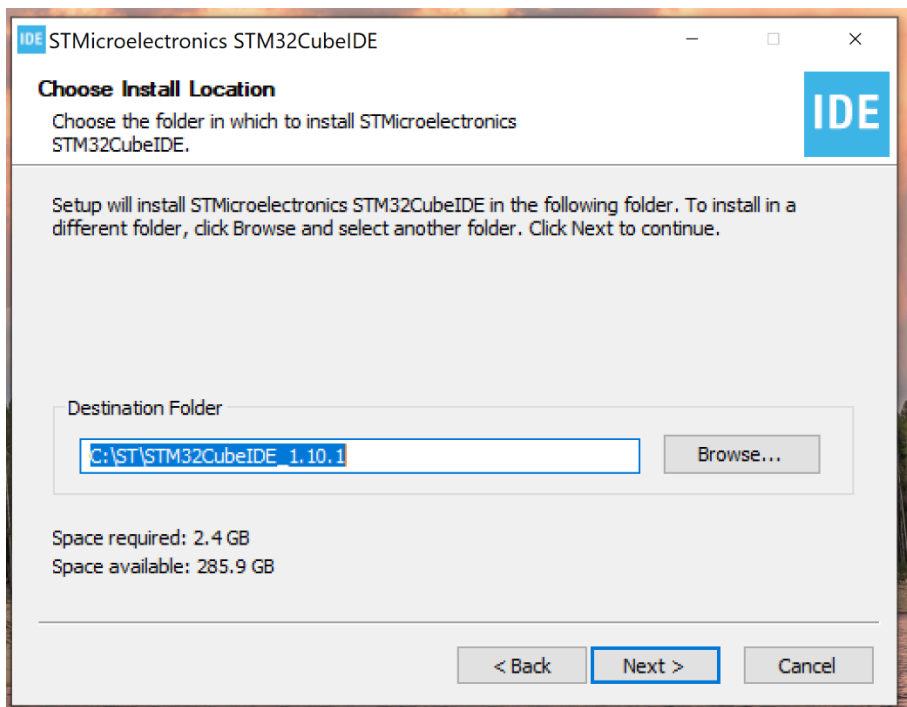
Press "Next":



Press “I agree”:

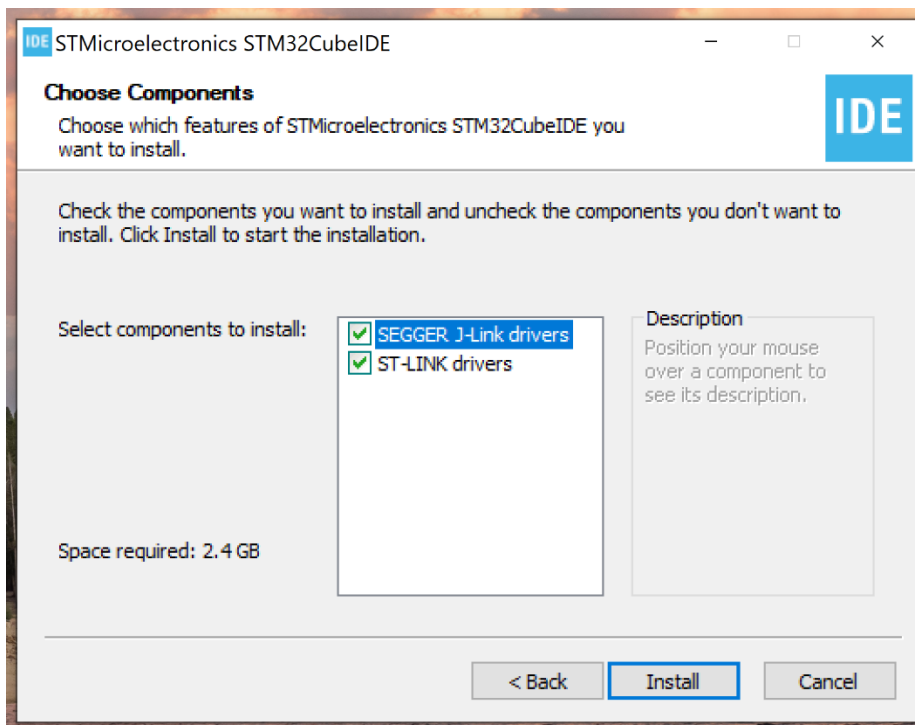


Press “Next”:

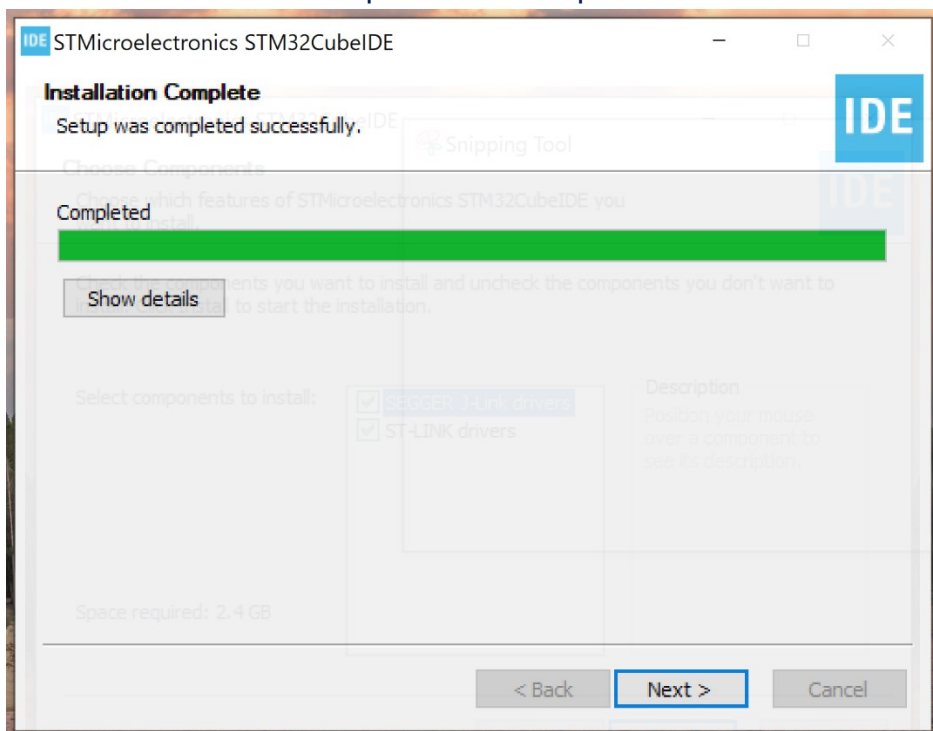


Press: “Install”

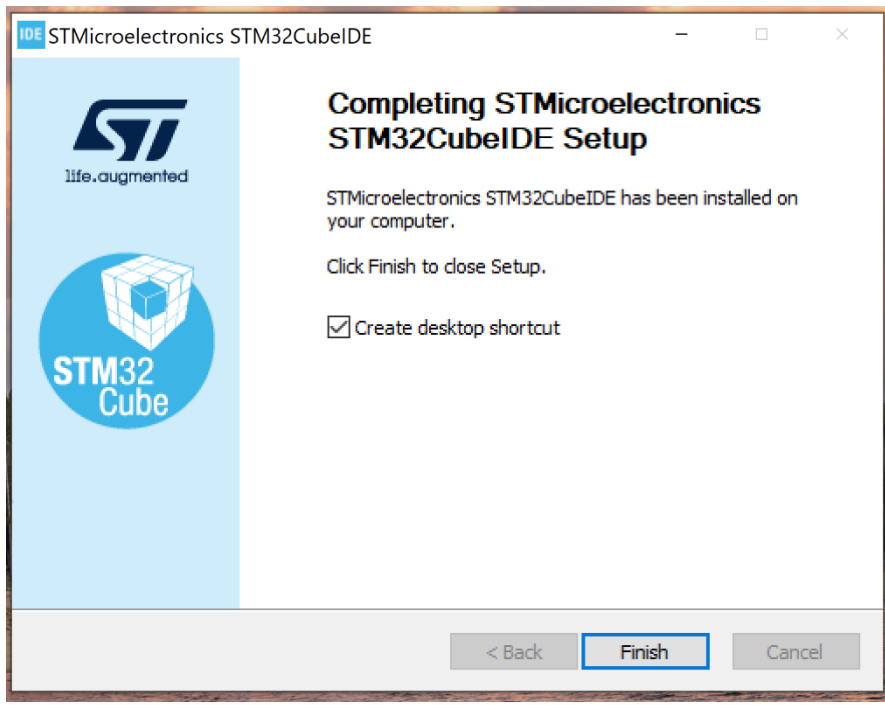




Wait for the install to complete and then press “Next”



Press “Finish”

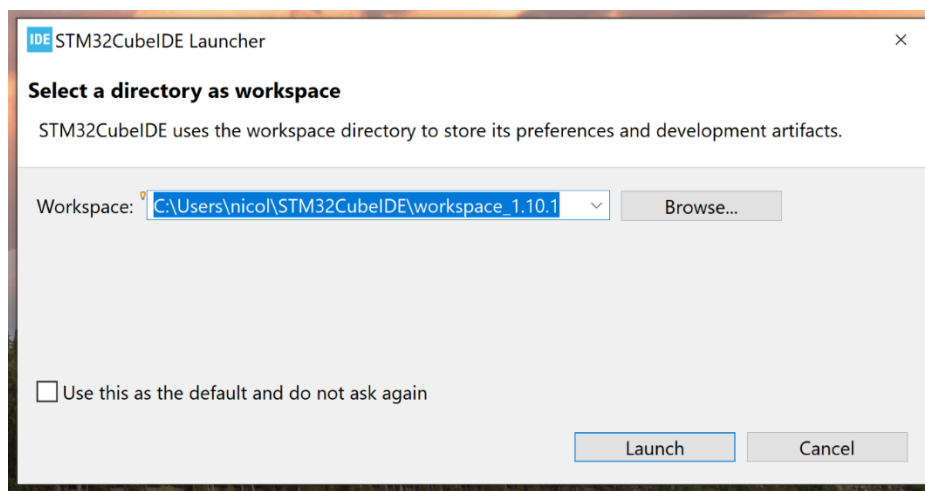


## 6- **STM32CubeC0**: Install STM32Cube MCU Package for STM32C0 series

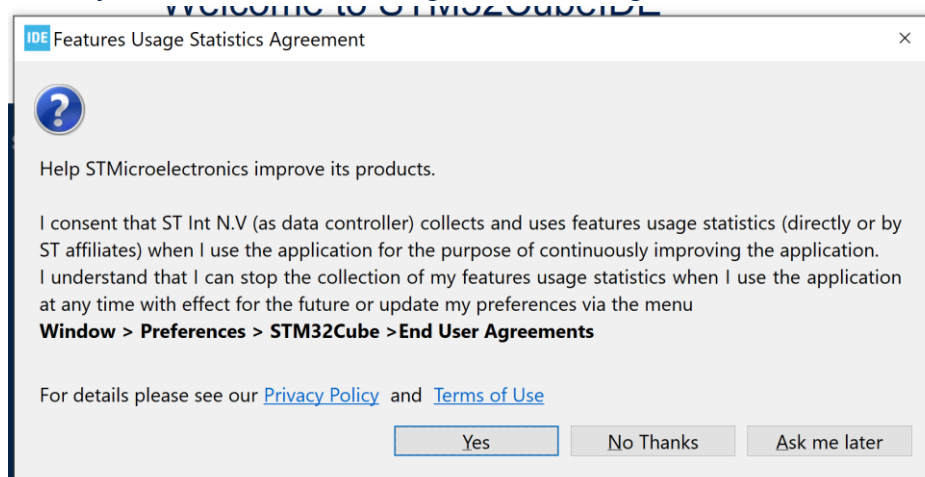
Double click on STM32CubeIDE icon or look for it in your Start Menu:



Click Launch:



Make your choice for the Usage Statistics Agreement:



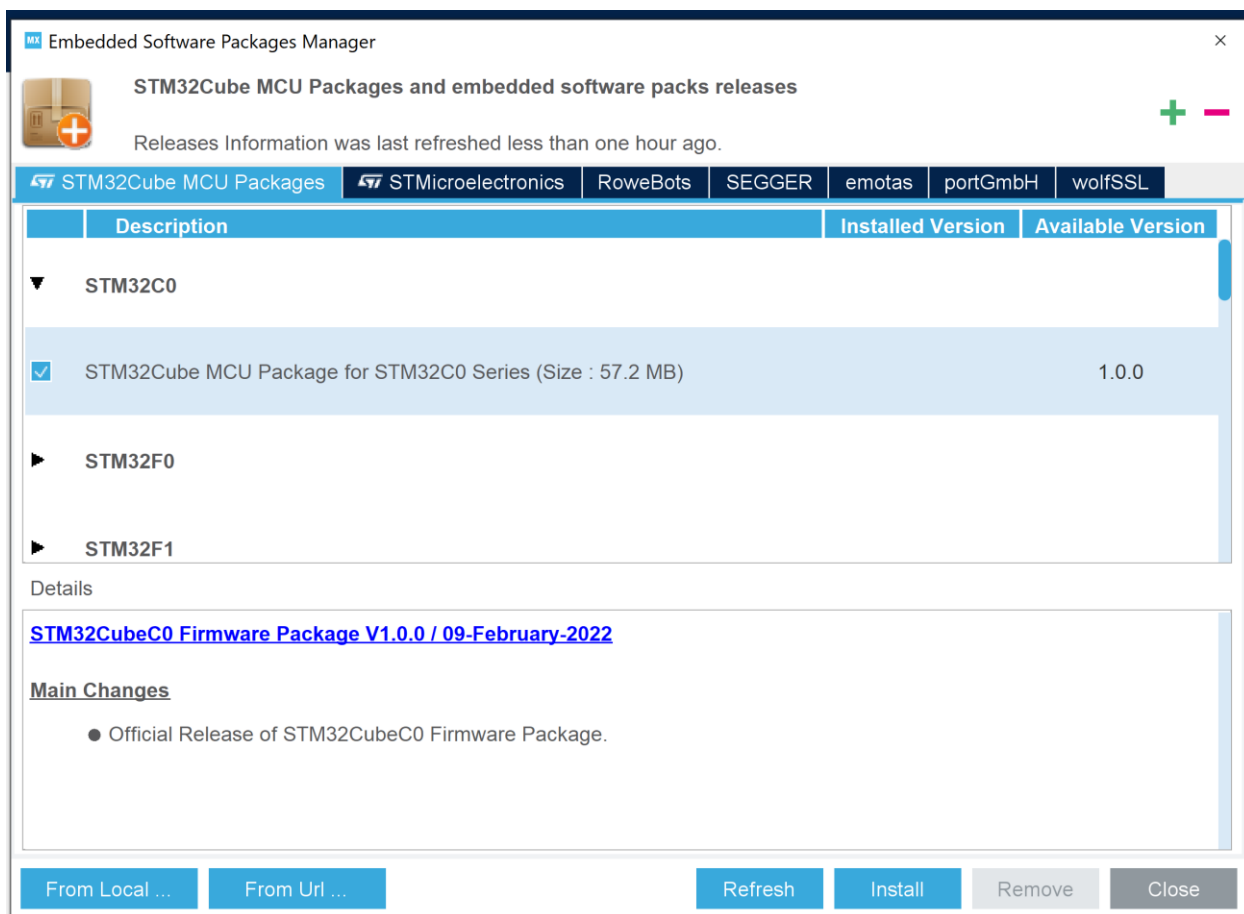
Note: For those behind a corporate firewall or having issue with installing the Cube Library from the internet, you can use “From local” to do an offline install of the STM32CubeC0 Library.

From STM32CubeIDE: Help -> Manage embedded software packages

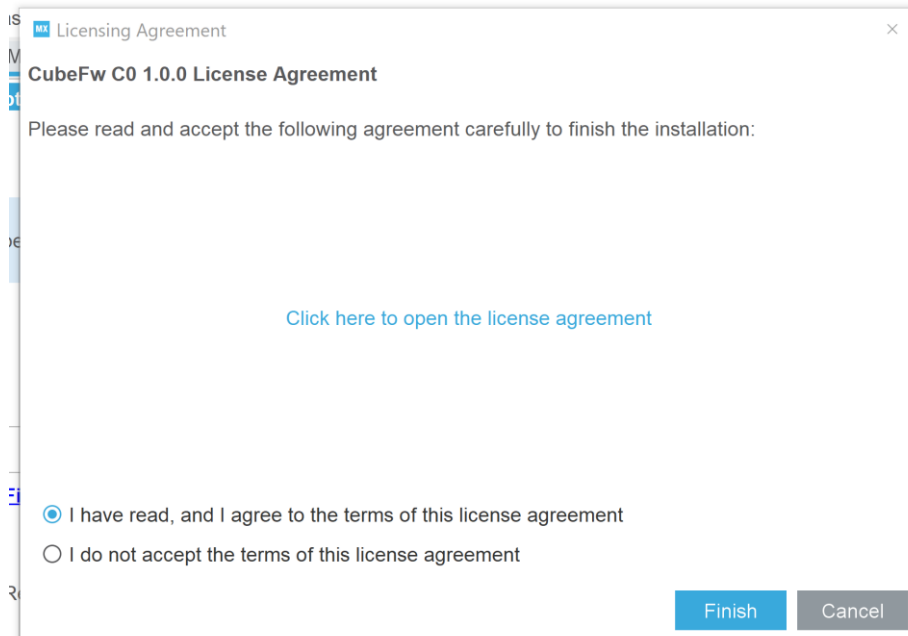
Click on Refresh:



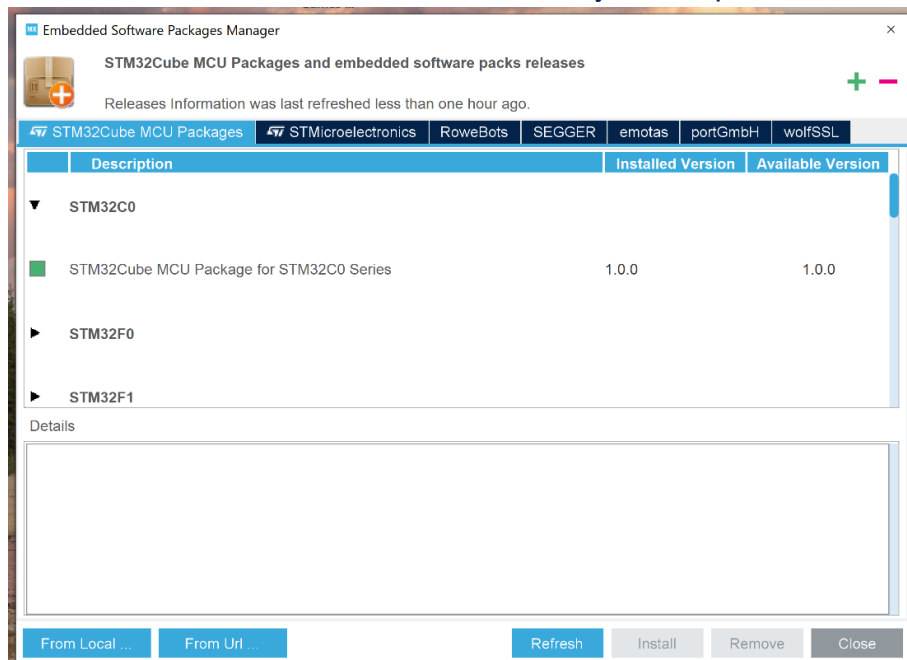
Under STM32C0, expand then check the **latest** STM32 MCU Package for STM32C0 and click "Install":



Agree on the terms of this license agreement, by selecting “I have read, and I agree to the terms of this license agreement” and then press Finish.



Once installed it should look like this and you can press “Close”



Note: In your system it might show a newer version depending on what latest version is available

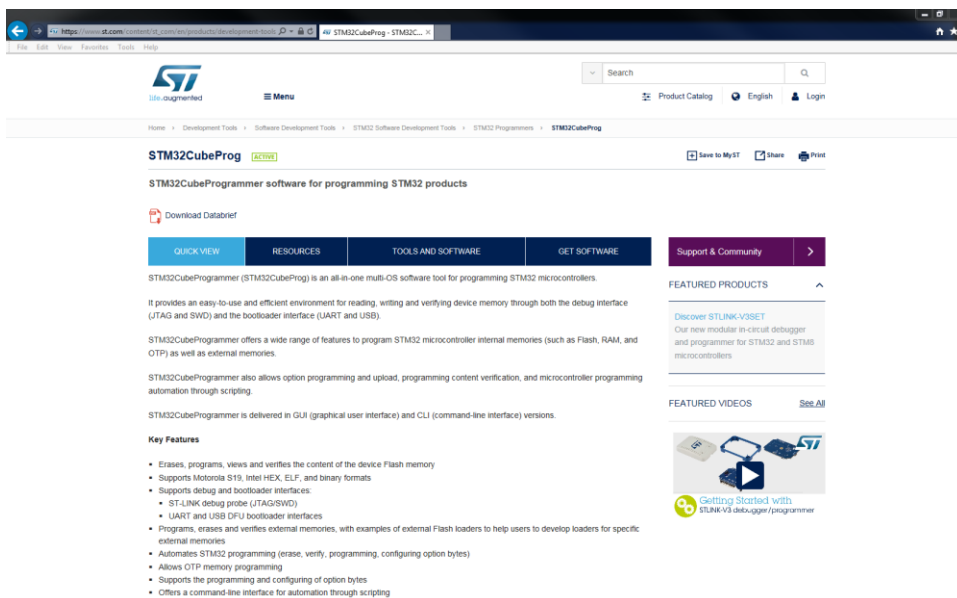
## Option Tool: **STM32CubeProg**: STM32CubeProgrammer software for programming STM32 products

Click Link: [STM32CubeProg](https://www.st.com/content/st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-programmers/stm32cubeprog.html)

Minimum version required: 2.10.0

Direct Install Link:

[https://www.st.com/content/st\\_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-programmers/stm32cubeprog.html](https://www.st.com/content/st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-programmers/stm32cubeprog.html)



**STM32CubeProg** ACTIVE

STM32CubeProgrammer software for programming STM32 products

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STM32CubeProgrammer (STM32CubeProg) is an all-in-one multi-OS software tool for programming STM32 microcontrollers. It provides an easy-to-use and efficient environment for reading, writing and verifying device memory through both the debug interface (JTAG and SWD) and the bootloader interface (UART and USB).

STM32CubeProgrammer offers a wide range of features to program STM32 microcontroller internal memories (such as Flash, RAM, and OTP) as well as external memories.

STM32CubeProgrammer also allows option programming and upload, programming content verification, and microcontroller programming automation through scripting.

STM32CubeProgrammer is delivered in GUI (graphical user interface) and CLI (command-line interface) versions.

**Key Features**

- Erases, programs, views and verifies the content of the device Flash memory
- Supports Motorola S19, Intel HEX, ELF, and binary formats
- Supports debug and bootloader interfaces:
  - ST-LINK debug probe (JTAG/SWD)
  - UART and USB DFU bootloader interfaces
- Programs, erases and verifies external memories, with examples of external Flash loaders to help users to develop loaders for specific external memories
- Automates STM32 programming (erase, verify, programming, configuring option bytes)
- Allows OTP memory programming
- Supports the programming and configuring of option bytes
- Offers a command-line interface for automation through scripting

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Part Number	Software Version	Marketing Status	Supplier	Download
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Please get the latest software version available that will be accessible by clicking on:

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Then click:

Save the file at a location of your choice:

Do you want to open or save en.stm32cubeprog.zip (160 MB) from my.st.com?

Open Save Cancel

Unzip the file (en.stm32cubeprog.zip)

SetupSTM32CubeProgrammer-1.4.0.app	1/17/2019 4:16 PM	File folder	
en.stm32cubeprog.zip	1/17/2019 4:16 PM	Compressed (zipp...	164,650 KB
SetupSTM32CubeProgrammer-1.4.0.exe	12/28/2018 1:20 PM	Application	165,170 KB
SetupSTM32CubeProgrammer-1.4.0.linux	12/28/2018 1:21 PM	LINUX File	742 KB

Note: you may see a newer version in your case than the screenshot above.

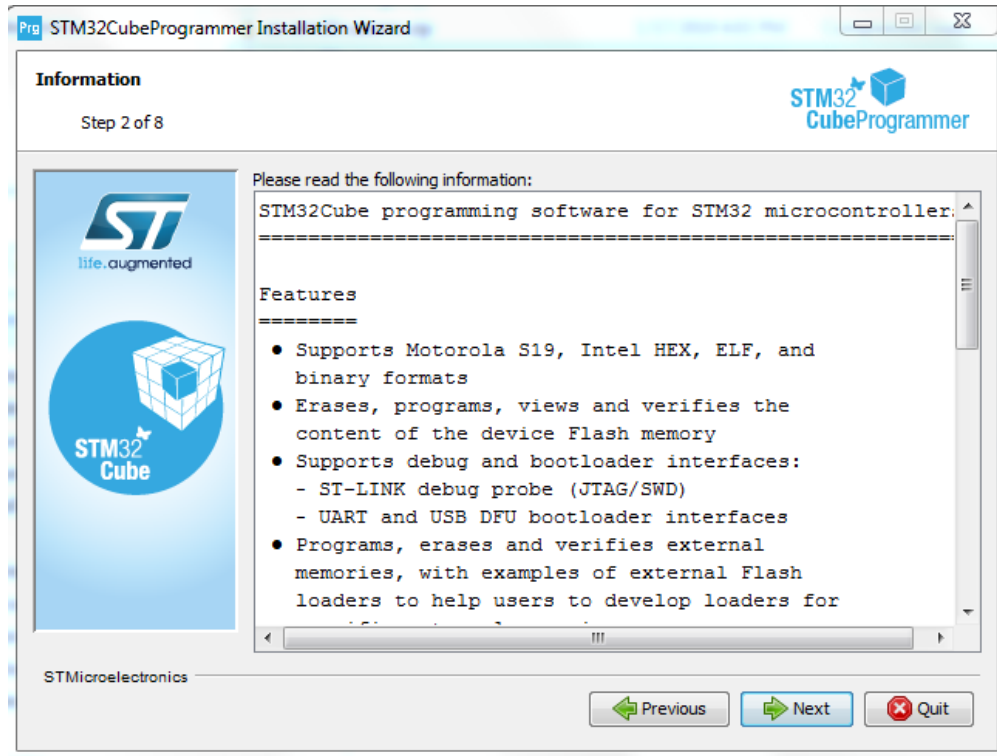
Right Click on SetupSTM32CubeProgrammer-x.x.x.exe and Run as administrator

Add screen shot

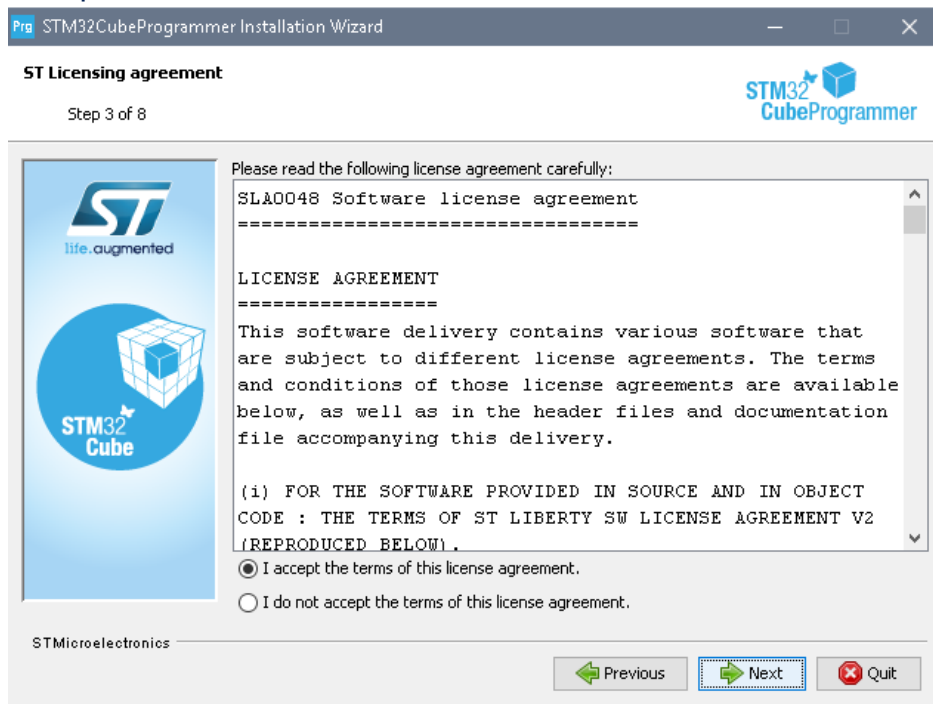
Press Next:



Press Next:

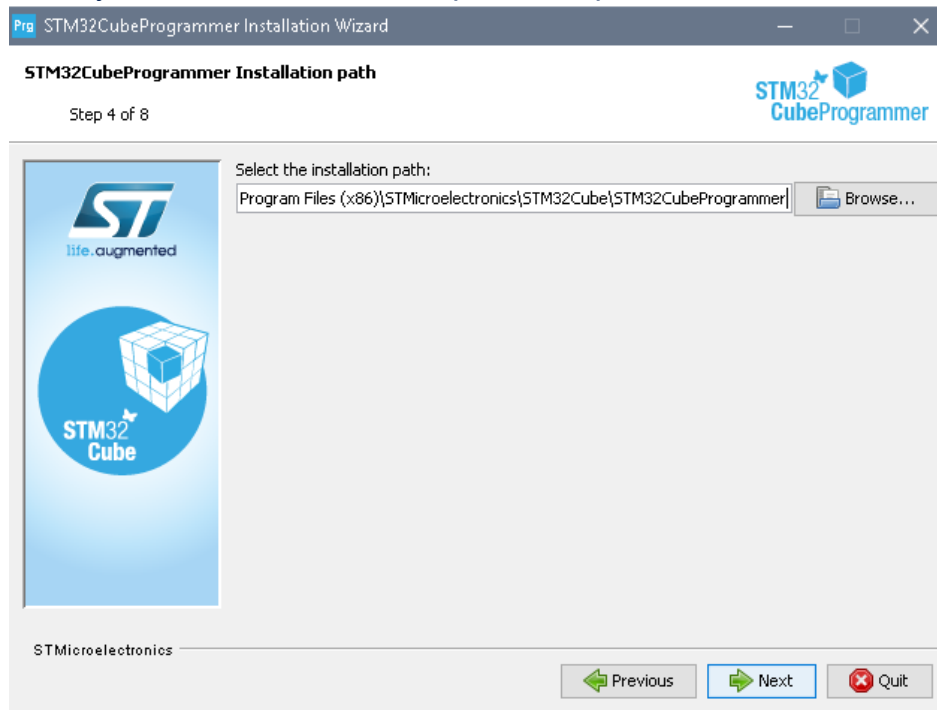


Accept the Terms and then click on Next:

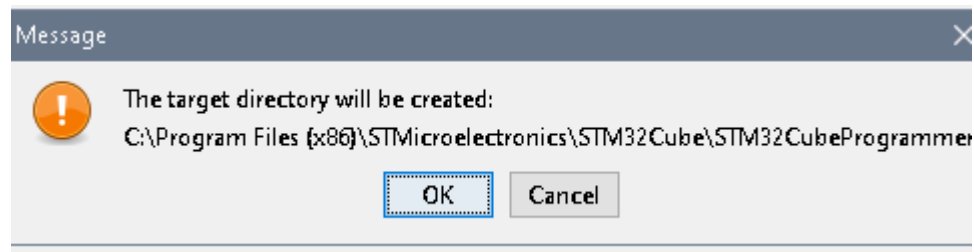


*Important note: If you have a previous version it will be overwritten if you keep the default path. So if you want to keep your previous version you will need to install the new version at a different directory. But for the workshop make sure to use the correct version (version that we are installing here).*

Once you have decided on the path then press Next:

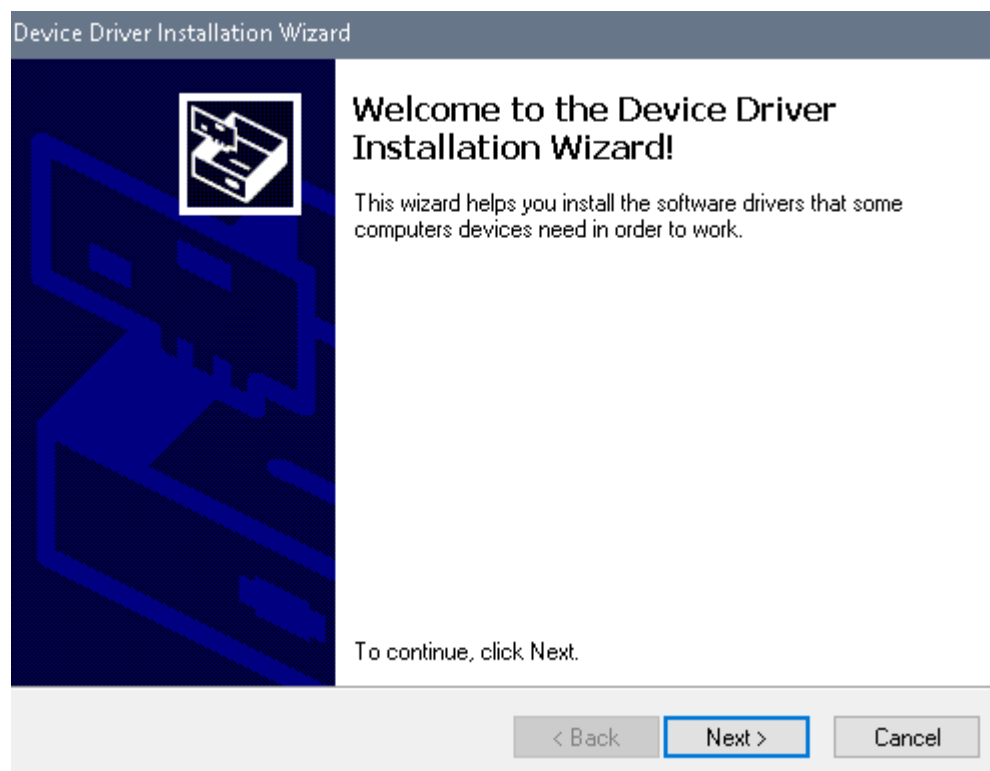


Press OK to create the Directory if the directory does not exist:

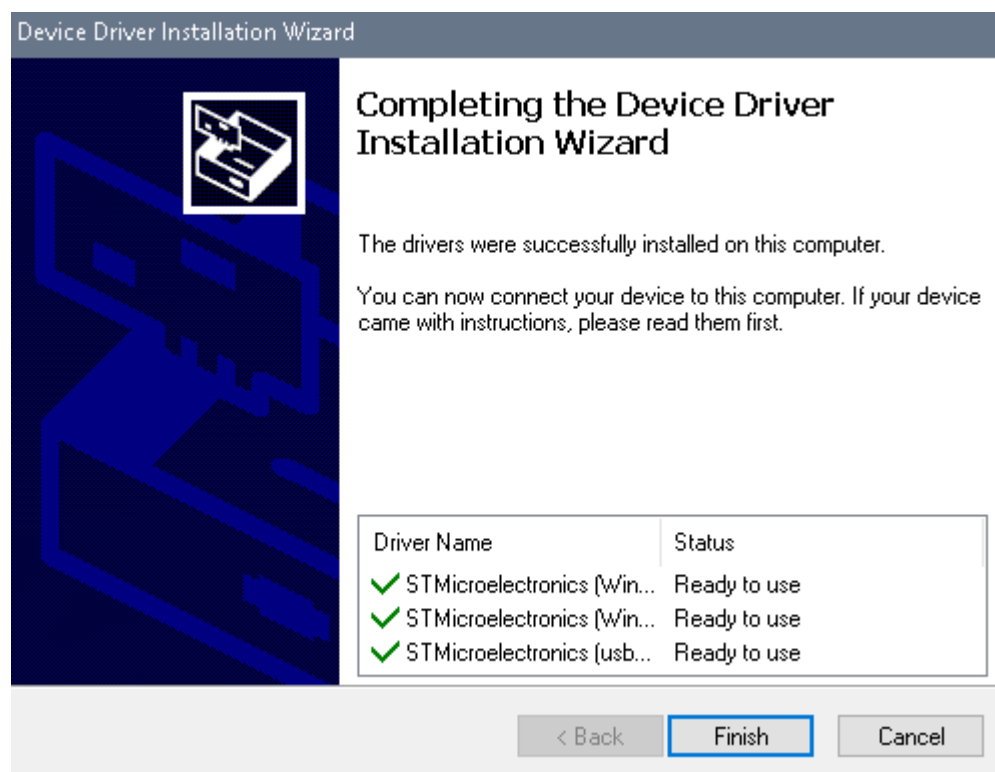


Follow those steps to install the ST-LINK Driver:

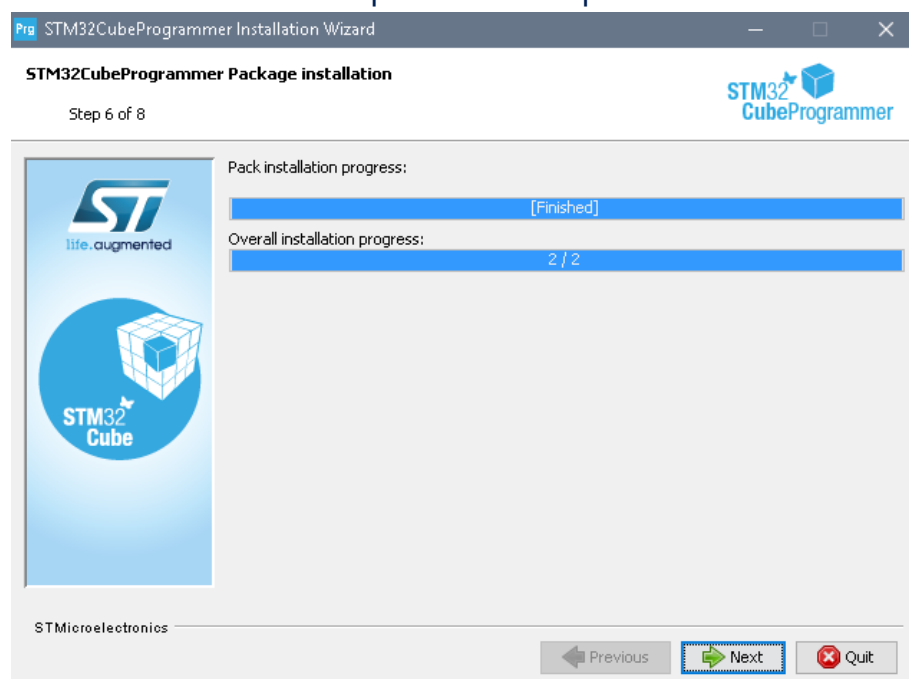
Press Next:



Press Finish:



Wait for the install to complete and then press Next:



Press Done:



Now try to open STM32CubeProgrammer to make sure it was installed properly.