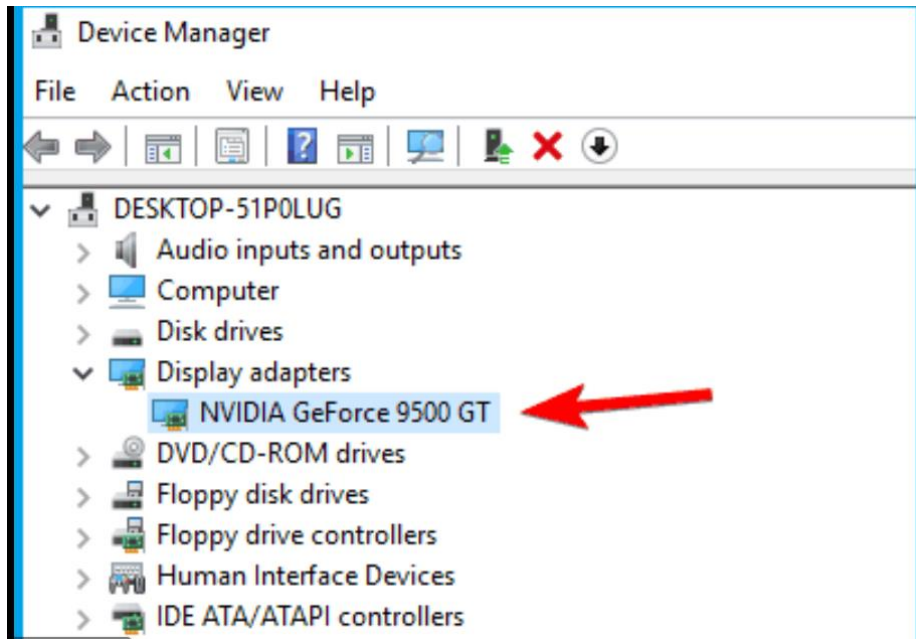


Installing CUDA and cuDNN on Windows

Verify you have a CUDA-Capable GPU:

You can verify that you have a CUDA-capable GPU through the **Display Adapters** section in the **Windows Device Manager**.

- Open Device Manager.
- Check display adapter in Device Manager.

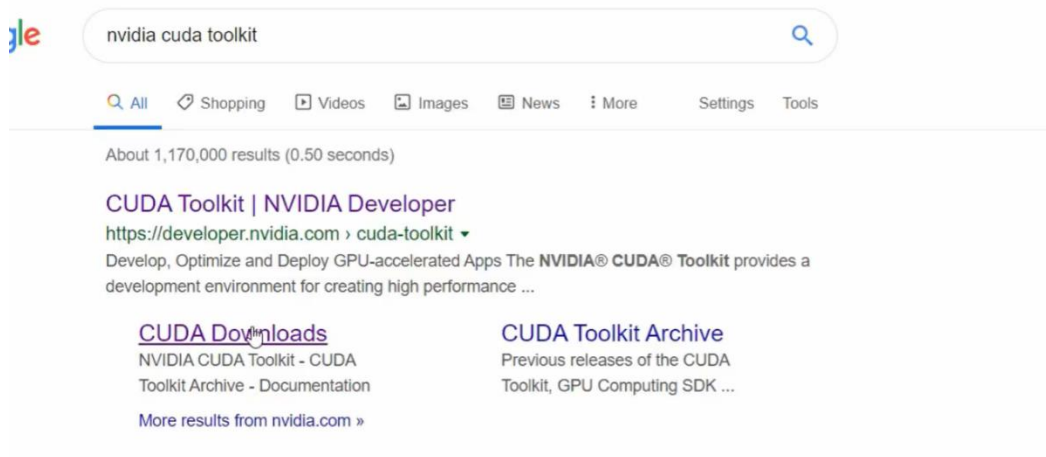


Finding suitable versions

Cuda capable GPUs and their versions can be found here: (<https://docs.nvidia.com/cuda/cuda-installation-guide-microsoft-windows/index.html>)

Download and install CUDA toolkit:

Download and Follow all default Procedure and after installation check for environment variables



Select the version which is applicable for your system. In our case, we have CUDA 10.2

CUDA Toolkit 10.2 Download

Select Target Platform

Click on the green buttons that describe your target platform. Only supported platforms will be shown.

Operating System	Windows	Linux	Mac OSX
Architecture	x86_64		
Version	10	8.1	7
		Server 2019	Server 2016
			Server 2012 R2
Installer Type	exe (network)	exe (local)	

Download Installers for Windows 10 x86_64

The base installer is available for download below.
There are 2 patches available. These patches require the base installer to be installed first.

> Base Installer

Download [2.6 GB]

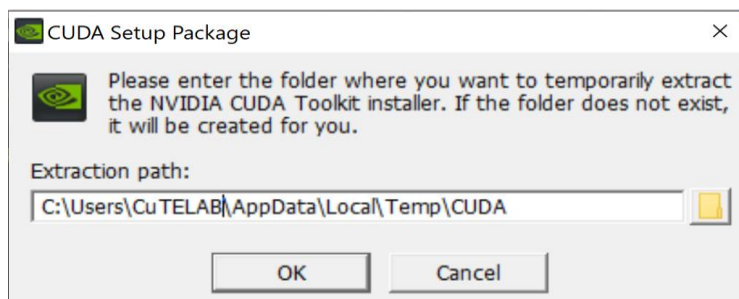
Installation Instructions:

1. Double click cuda_10.2.89_441.22_win10.exe
2. Follow on-screen prompts

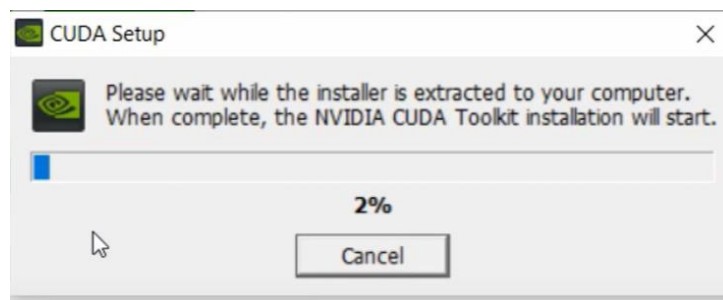
Wait until the file is downloaded, and open it then:



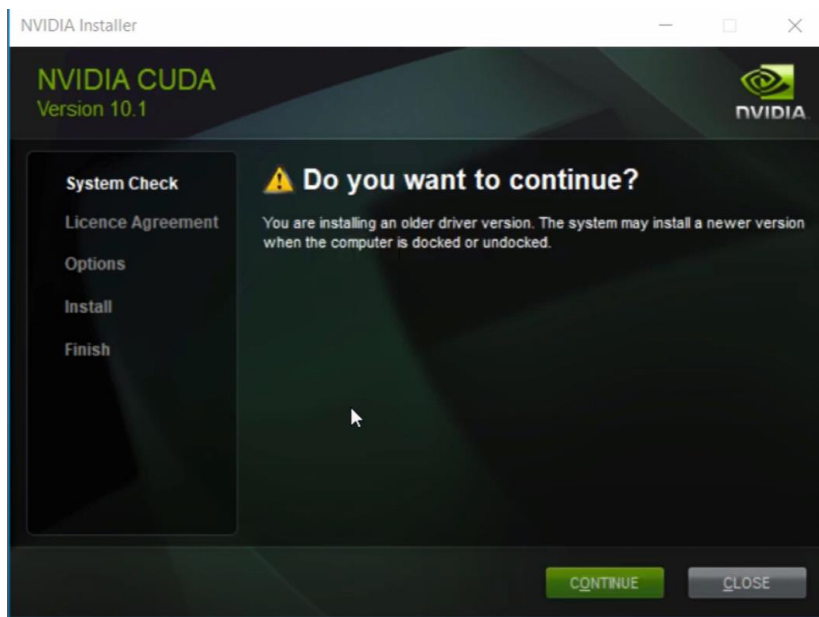
Make sure that your file is installed in C where your program file page is there:



The installation might take sometimes:



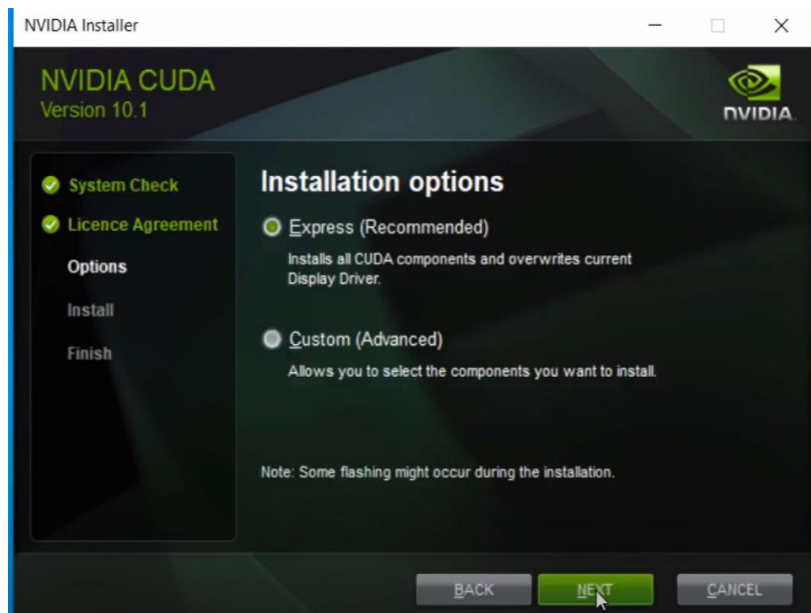
Press CONTINUE:

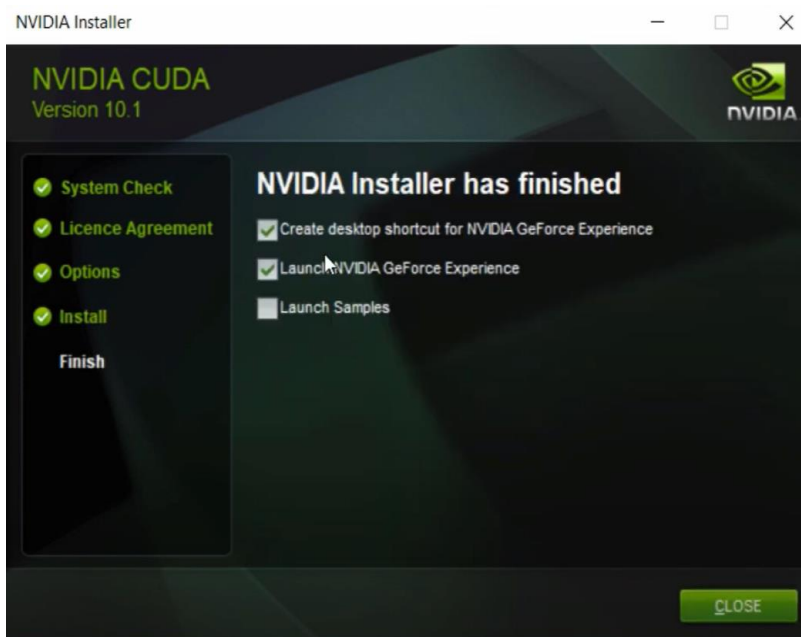
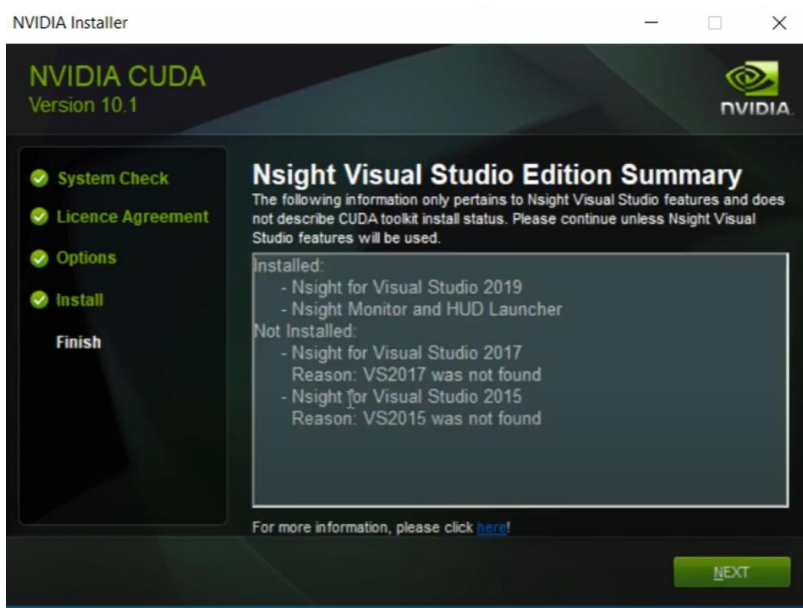
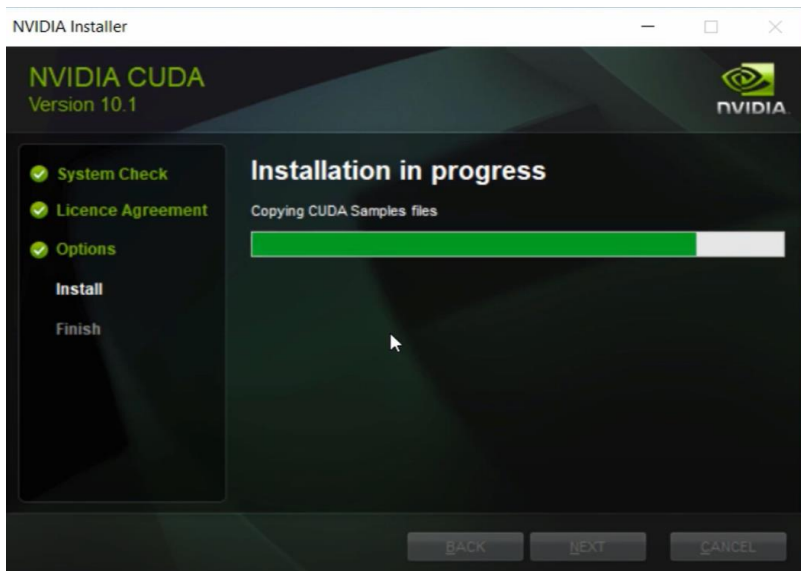


Agree And Countine:



NEXT:





Download and setup CUDNN:

Go to <https://developer.nvidia.com/rdp/cudnn-archive> to download the version of CUDNN that is compatible with your CUDA toolkit.

NOTE: You have to be signed in using your Nvidia account to download CUDNN. If you do not have an account, create one.

NVIDIA Developer Program Membership Required

The file or page you have requested requires membership in the NVIDIA Developer Program. Please either log in or join the program to access this material. [Learn more](#) about the benefits of the NVIDIA Developer Program.

Login

Join now

Since we have CUDA 10.2, we will download **cuDNN v7.6.5 for CUDA 10.2**. Then, Click on **cuDNN 7.6.5** and select cuDNN Library for Windows (x86).

Download cuDNN v7.6.5 [November 18th, 2019], for CUDA 10.2

Library for Windows, Mac, Linux, Ubuntu and RedHat/Centos(x86_64architecture)

cuDNN Library for Windows 7

cuDNN Library for Windows 10

cuDNN Library for Linux

cuDNN Runtime Library for Ubuntu18.04 [Deb]

cuDNN Developer Library for Ubuntu18.04 [Deb]

cuDNN Code Samples and User Guide for Ubuntu18.04 [Deb]

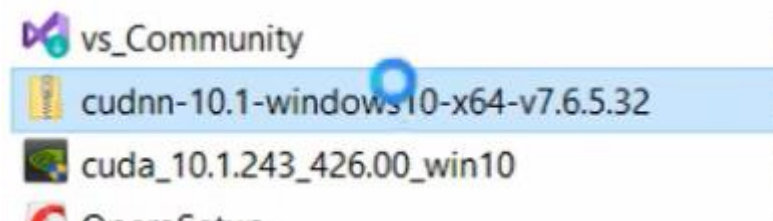
cuDNN Runtime Library for Ubuntu16.04 [Deb]

cuDNN Developer Library for Ubuntu16.04 [Deb]

cuDNN Code Samples and User Guide for Ubuntu16.04 [Deb]

Copy the contents of the cuda folder inside the cuDNN folder to the path where we installed CUDA in step 1 above. (We need the contents of the bin, include & lib folders from cuDNN to be inside the bin, include and lib folders of the CUDA directory).

You need to extract the cuDNN file and open it.



COPY CONTENTS FROM THIS FOLDER :

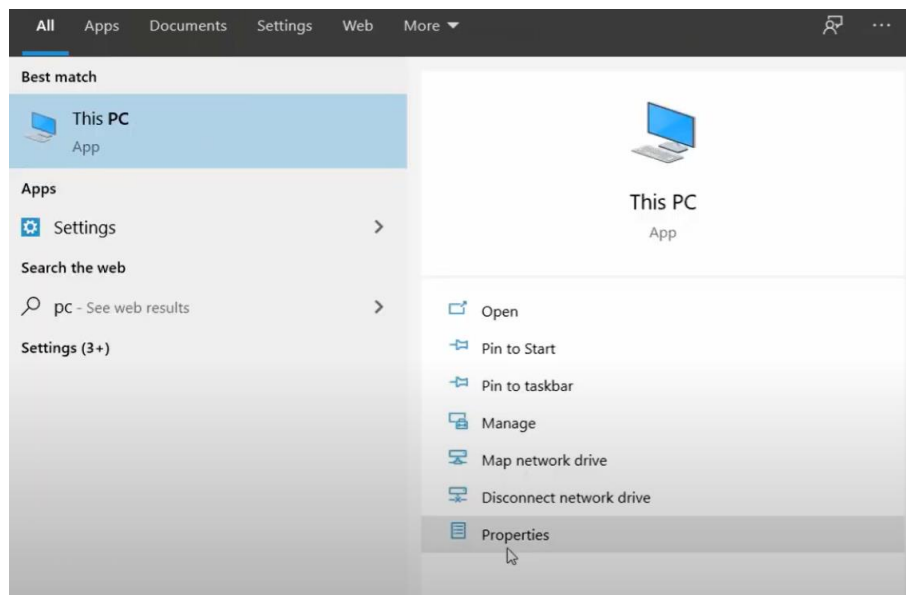


TO THIS FOLDER

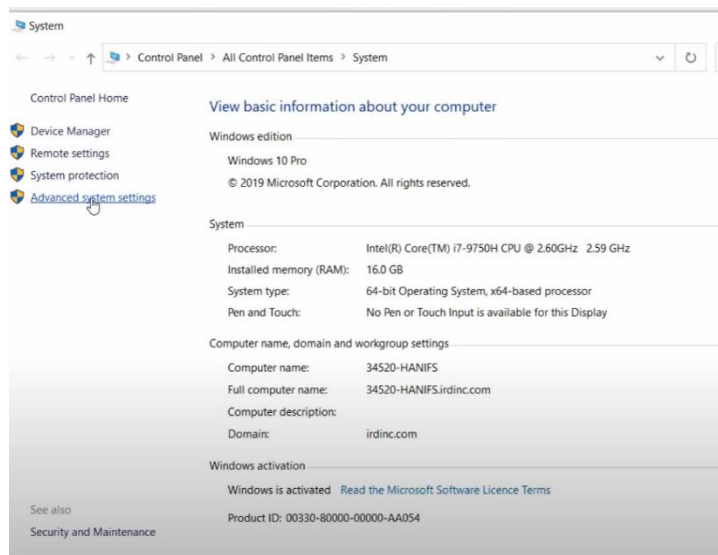
Program Files >> NVIDIA GPU COMPUTING TOOLKIT >> CUDA then v10.2

Name	Date modified	Type	Size
bin	2020-01-28 10:47 AM	File folder	
doc	2020-01-28 10:47 AM	File folder	
extras	2020-01-28 10:47 AM	File folder	
include	2020-01-28 10:47 AM	File folder	
lib	2020-01-28 10:47 AM	File folder	
libnvvp	2020-01-28 10:47 AM	File folder	
nvml	2020-01-28 10:47 AM	File folder	
nvvm	2020-01-28 10:47 AM	File folder	
src	2020-01-28 10:47 AM	File folder	
tools	2020-01-28 10:47 AM	File folder	

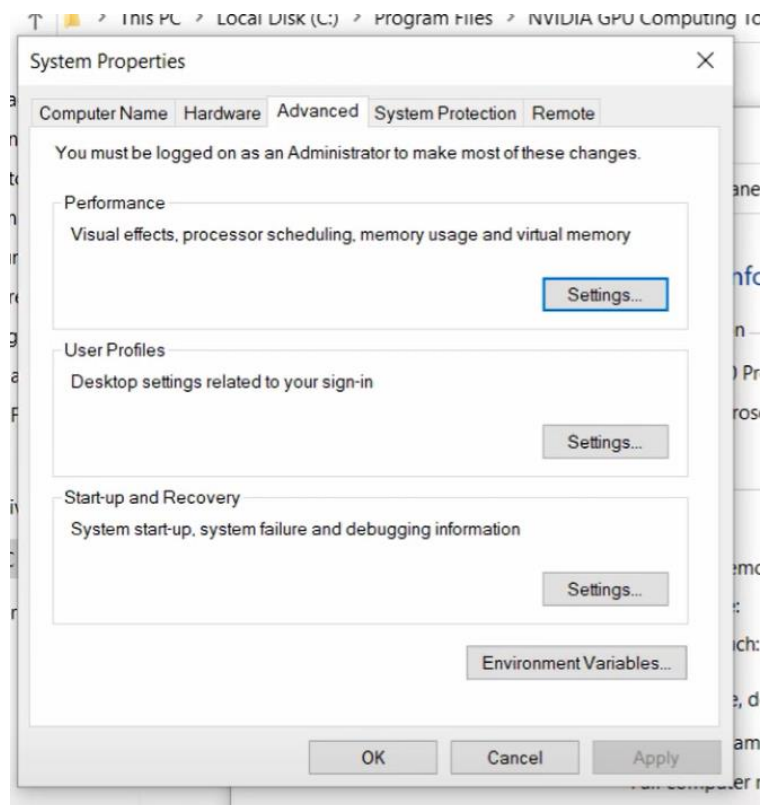
To make sure that you have made everything well, got to **Pc properties**:



Then, advanced system settings



After that, Environment Variables



That's it. We have successfully set up CUDA and cuDNN on our Windows System.