

# L<sup>A</sup>T<sub>E</sub>X Installation Guide

Created for latex workshop by Geomatics Engineering Society

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# Things to Install

We will require two softwares:

- ▶ TexLive  
<https://www.tug.org/texlive/>
- ▶ TexStudio  
<https://www.texstudio.org/>

Visit the above sites and follow the given instructions if you feel confident. You can also follow the step by step instructions provided below.

It is advised to have a strong internet connection as this will take substantial time.

# Installing Tex-live

Step 1 : Visit the site : <https://www.tug.org/texlive/>



## TeX Live

TeX Live is intended to be a straightforward way to get up and running with the [TeX document production system](#). It provides a comprehensive TeX system with binaries for most flavors of Unix, including GNU/Linux and [macOS](#), and also Windows. It includes all the major TeX-related programs, macro packages, and fonts that are free software, including support for many languages around the world. Many Unix/GNU/Linux [operating systems provide TeX Live](#) via their own distributions and package managers.

- **Concise instructions, per platform:**

- [install on Unix/GNU/Linux](#)
- [install on Windows](#)
- [install on MacOS: MacTeX distribution](#)

You can read the [full manual](#) for all the possibilities, including automated installations and using custom repositories.

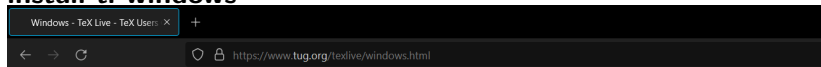
- **All the ways to acquire TeX Live:**

- [download](#),
- [on DVD](#),
- [an ISO image or via torrent](#),
- [other methods](#).

- [Documentation](#).
- [Contact and mailing lists](#).
- [Known issues](#) and [highlights of changes](#) in the current release (details for [LuaTeX](#), [pdfTeX](#), [XeTeX](#)).
- [Portable \(USB and DVD\) usage](#) of TeX Live.
- [Installing/updating packages after installation](#) and [full upgrade from previous years](#).
- [TeX Live licensing](#), and [integration with operating system distributions](#).

# Installing Tex-live

## Step 2 : choose your operating system and download the file **install-tl-windows**



### TeX Live on Windows

#### Contents

- [Easy install](#)
- [Other options](#)
- [64-bit binaries](#)
- [Perl and Tcl/Tk on Windows](#)
- [Multiple TeX distributions](#)
- [Security](#)
- [Administrator privileges](#)
- [Network installations and the TeX Live launcher](#)
- [Fixing permission problems, especially with texmf-local](#)
- [Troubleshooting other problems](#)

#### Easy install

When installing from the internet, we recommend downloading and running [install-tl-windows.exe](#).

This installer first unpacks itself and then starts the installer proper, which is the same as for other platforms. An 'Advanced' button gives you many additional customization options.

When successful, the installer tries to do the post-install things that are considered appropriate on Windows:

- Adds a TeX Live submenu of Windows' Start menu. Entries include a GUI for TeX Live Manager and the TeXworks editor if was installed.
- Optionally adds some filetypes and file associations.
- Adds the directory of TeX Live Windows binaries to the search path.

# Installing Tex-live

Step 3 : run the file downloaded "as administrator" as shown below.

> Local Disk (C:) > Users > mukes > Downloads

▼ Today (8)



install-tl-windows

Type: Application



texstudio-4.2.3-win-qt6

Type: Application



latexsheet-0

Type: PNG File

Dimensions: 1100 x 850



latexsheet-1

Type: PNG File

Dimensions: 1100 x 850



project\_proposal



proposal



LaTeX\_workshop\_files



project\_proposal

▼ Last week (6)

Date modified: 7/24/2022 12:52 PM

**Open**

Enable/Disable Digital Signature Icons

Launch with Nsight HUD 2019.4



Run as administrator

Troubleshoot compatibility

Pin to Start



Edit with Notepad++



Scan with Microsoft Defender...



Share

Give access to

Pin to taskbar

Restore previous versions

Send to

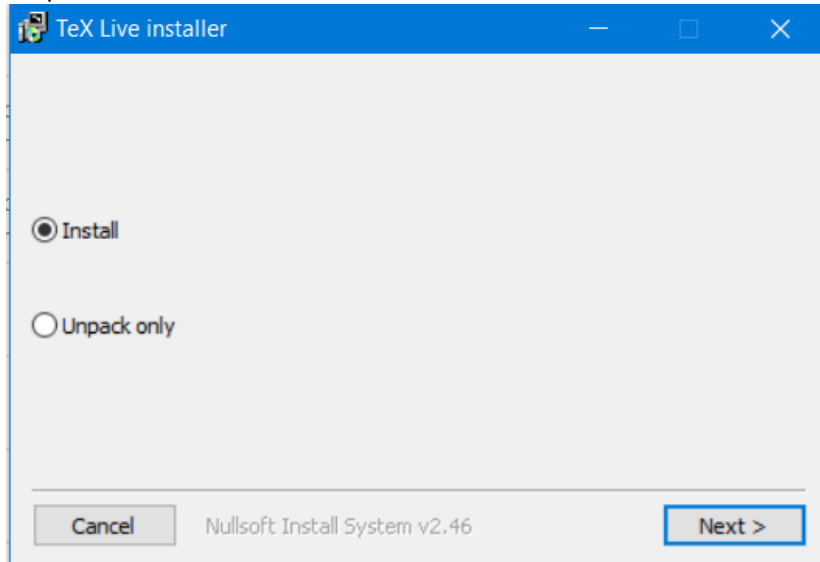
Cut

Copy

Create shortcut

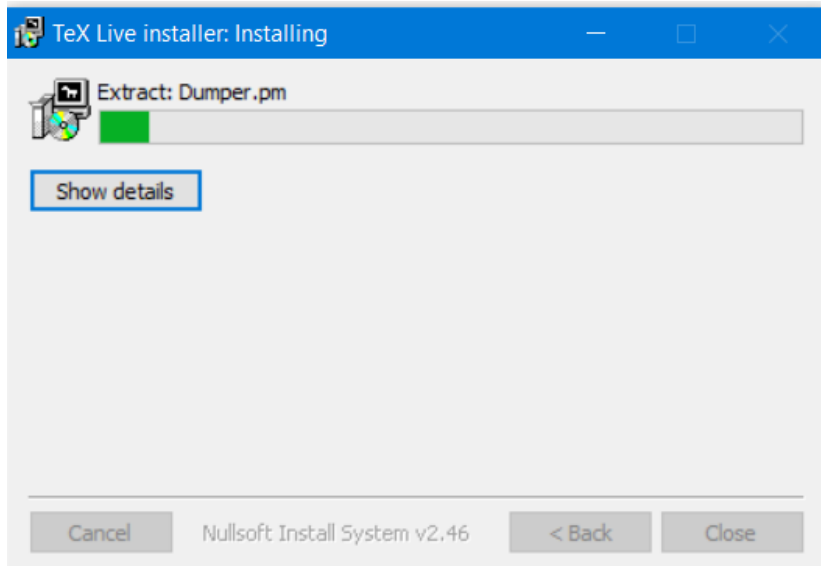
# Installing Tex-live

Step 4 : Select install and click ok



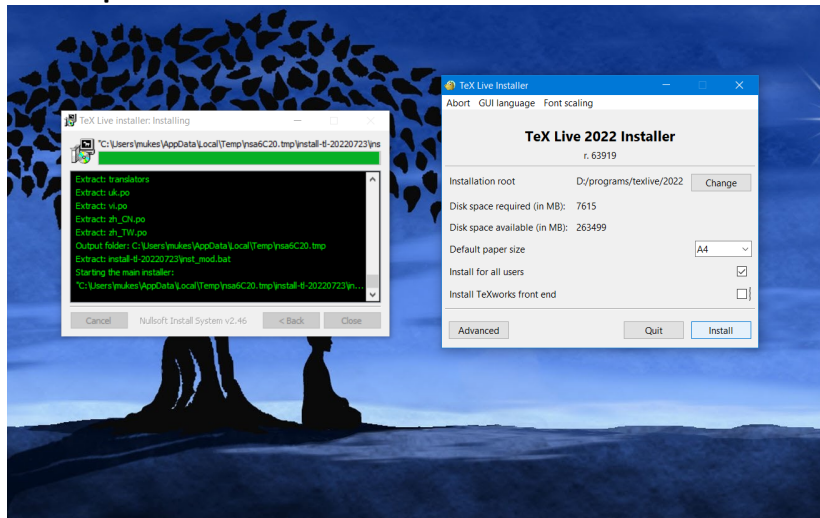
# Installing Tex-live

Step 5 : wait for installer to complete.



# Installing Tex-live

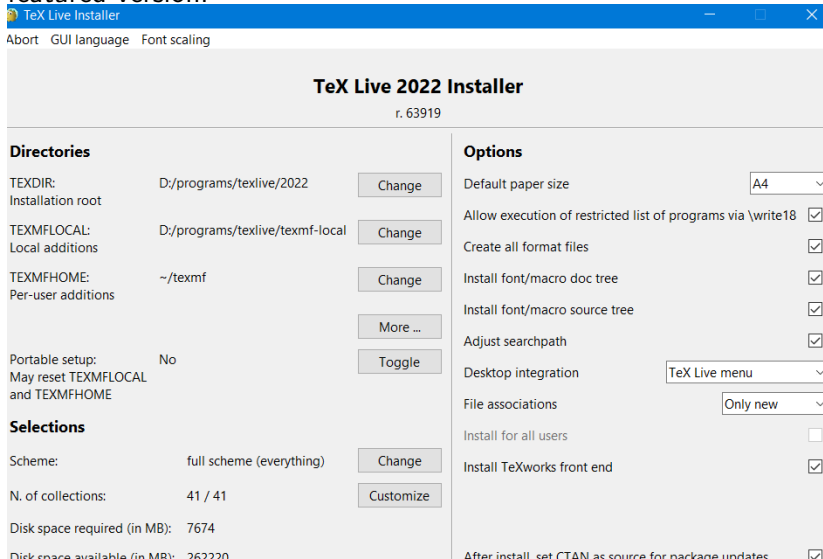
Step 6 : Select your installation directory in the new window that pops up. At this point you can click Install. **However, if you can have slow internet or low storage space. See next two slides else skip them**





# Installing Tex-live

Step 6.1 : Click on advanced and a new menu will appear. Select change option in scheme option to download a smaller but less featured version.



The screenshot shows the 'TeX Live 2022 Installer' window. The title bar is blue with the text 'TeX Live Installer' and standard window controls. Below the title bar is a menu bar with 'Abort', 'GUI language', and 'Font scaling'. The main content area is divided into two columns: 'Directories' and 'Options'.

**Directories**

Label	Value	Action
TEXDIR: Installation root	D:/programs/texlive/2022	Change
TEXMFLOCAL: Local additions	D:/programs/texlive/texmf-local	Change
TEXMFHOME: Per-user additions	~/texmf	Change
		More ...
Portable setup:	No	Toggle
May reset TEXMFLOCAL and TEXMFHOME		

**Selections**

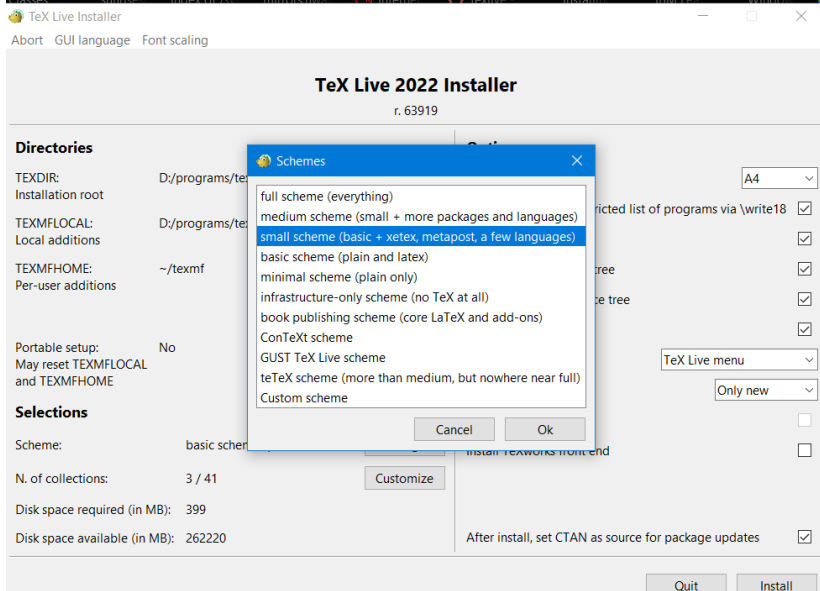
Label	Value	Action
Scheme:	full scheme (everything)	Change
N. of collections:	41 / 41	Customize
Disk space required (in MB):	7674	
Disk space available (in MB):	262220	

**Options**

Label	Value	Action
Default paper size	A4	▼
Allow execution of restricted list of programs via \write18		<input checked="" type="checkbox"/>
Create all format files		<input checked="" type="checkbox"/>
Install font/macro doc tree		<input checked="" type="checkbox"/>
Install font/macro source tree		<input checked="" type="checkbox"/>
Adjust searchpath		<input checked="" type="checkbox"/>
Desktop integration	TeX Live menu	▼
File associations	Only new	▼
Install for all users		<input type="checkbox"/>
Install TeXworks front end		<input checked="" type="checkbox"/>
After install, set CTAN as source for package updates		<input checked="" type="checkbox"/>

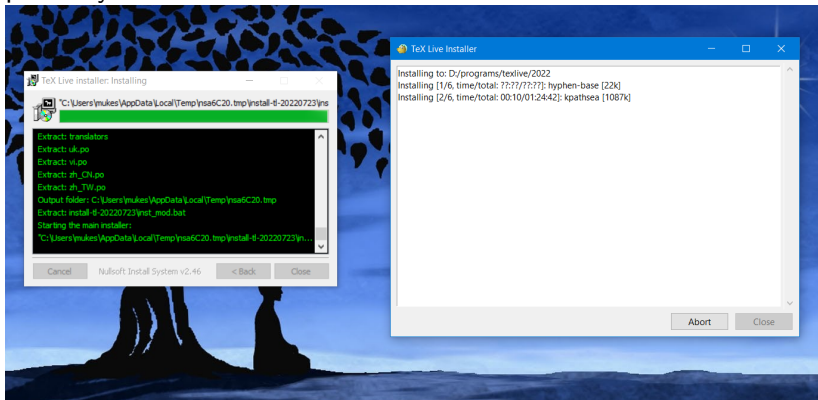
# Installing Tex-live

Step 6.2 : Select a scheme based on your needs. Small works fine for normal use.



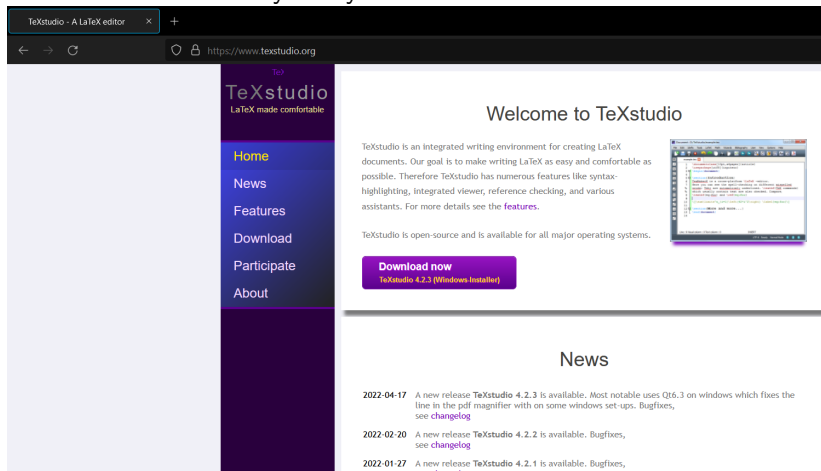
# Installing Tex-live

Step 7 : Click on install and the download will start. Please wait patiently.



# Installing TexStudio

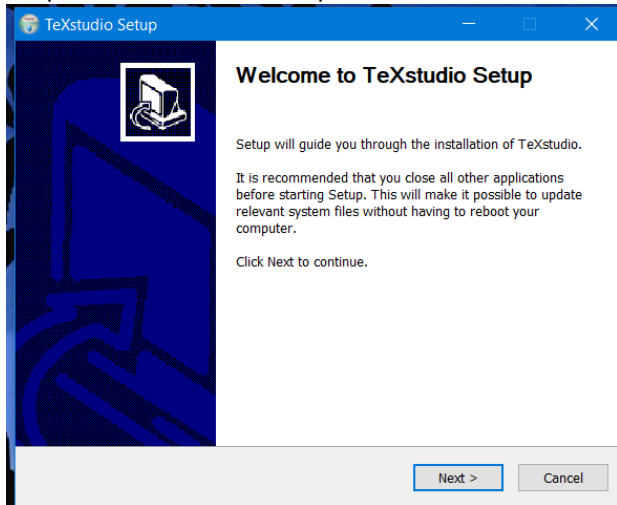
Step 1 : Visit the site : <https://www.texstudio.org/>.  
Download the file for your system.



The screenshot shows a web browser window with the address bar displaying "https://www.texstudio.org". The website has a dark theme. On the left is a vertical navigation menu with links: Home (highlighted in yellow), News, Features, Download, Participate, and About. The main content area is titled "Welcome to TeXstudio" and contains the following text: "TeXstudio is an integrated writing environment for creating LaTeX documents. Our goal is to make writing LaTeX as easy and comfortable as possible. Therefore TeXstudio has numerous features like syntax-highlighting, integrated viewer, reference checking, and various assistants. For more details see the [features](#)." Below this text is a purple button labeled "Download now" with a link to "TeXstudio 4.2.3 (Windows Installer)". To the right of the text is a small image of the TeXstudio application window. Further down, under a "News" section, there is a list of updates: "2022-04-17 A new release TeXstudio 4.2.3 is available. Most notable uses Qt6.3 on windows which fixes the line in the pdf magnifier with on some windows set-ups. Bugfixes, see [changelog](#)", "2022-02-20 A new release TeXstudio 4.2.2 is available. Bugfixes, see [changelog](#)", and "2022-01-27 A new release TeXstudio 4.2.1 is available. Bugfixes, see [changelog](#)".

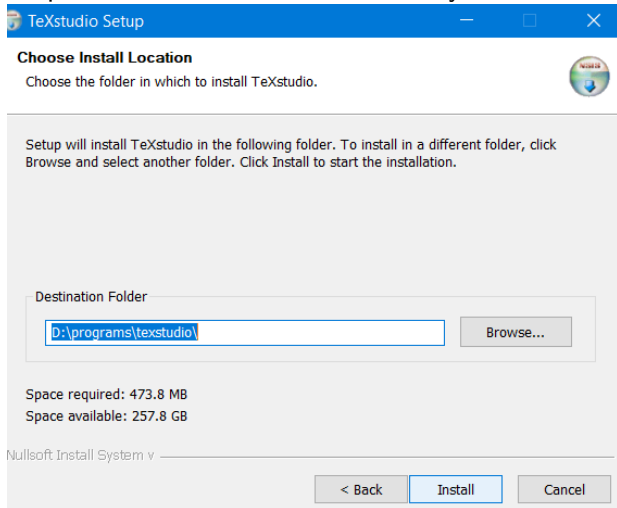
# Installing TeXStudio

Step 2 : Run the file to open the installation wizard.



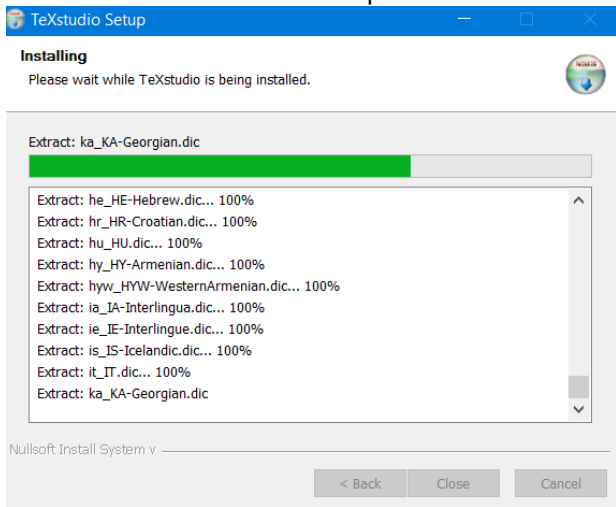
# Installing TeXstudio

Step 3 : Choose installation directory and click install.



# Installing TexStudio

Step 4 : Wait for installation to complete and launch it from start



menu.

# Validating Installation

Open TexStudio and open the file Sample\_checkinstall and click 'Build and View'. You will see a pdf with some text if everything goes well.

Use google to troubleshoot or contact me at [mt24031719@student.ku.edu.np](mailto:mt24031719@student.ku.edu.np) if you face issues.