

Отчёт по лабораторной работе № 1

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Презентация: Лабораторная работа №1

Тема: Установка дистрибутива LaTeX TeX Live в Windows 10

- Установить LaTeX-дистрибутив **TeX Live** в Windows 10
- Использовать **Chocolatey** и ручной способ установки
- Проверить успешность установки
- Подготовить систему для работы с LaTeX

1. Установить Chocolatey (<https://chocolatey.org/install>)
2. С помощью Chocolatey установить TeX Live
3. Проверить установку
4. Рассмотреть альтернативную установку (<https://www.tug.org/texlive/windows.html>)
5. Подготовить скриншоты основных этапов

- Перейти на сайт Chocolatey
- Скопировать команду установки
- Выполнить в **PowerShell (Admin)**
- Проверка: команда **choco** показывает версию

```
Administrator: Windows PowerShell

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Windows\system32> Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))
```

```
Administrator: Windows PowerShell

+ CategoryInfo          : (InvalidArgument: ()): [Invoke-Expression], ParameterBindingException
+ FullyQualifiedErrorId : PositionalParameterNotFound,Microsoft.PowerShell.Commands.InvokeExpressionCommand

Forcing web requests to allow TLS v1.2 (Required for requests to Chocolatey.org)
Getting latest version of the Chocolatey package for download.
Not using proxy.
Getting Chocolatey from https://community.chocolatey.org/api/v2/package/chocolatey/2.5.1
Downloading https://community.chocolatey.org/api/v2/package/chocolatey/2.5.1 to C:\Users\WMHED-1\AppData\Local\Temp\chocolatey\chocoinstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\WMHED-1\AppData\Local\Temp\chocolatey\chocoinstall\chocolatey.zip to C:\Users\WMHED-1\AppData\Local\Temp\chocolatey\chocoinstall
Installing Chocolatey on the local machine
Creating ChocolateyInstall as an environment variable (targeting 'Machine')
Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'
WARNING: It's very likely you will need to close and reopen your shell
before you can use choco.
Restricting write permissions to Administrators
We are setting up the Chocolatey package repository.
The packages themselves go to 'C:\ProgramData\chocolatey\lib'
(i.e. C:\ProgramData\chocolatey\lib\YourPackageName).
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin'
and points to an executable in 'C:\ProgramData\chocolatey\lib\YourPackageName'.
Creating Chocolatey CLI folders if they do not already exist.
chocolatey.nupkg file not installed in lib.
Attempting to locate it from bootstrapper.
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...
WARNING: Not setting tab completion: Profile file does not exist at
'C:\Users\WMHED-1\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey CLI (choco.exe) is now ready.
You can call choco from anywhere, command line or PowerShell by typing choco.
Run choco /? for a list of functions.
You may need to shut down and restart PowerShell and/or consoles
first prior to using choco.
Ensuring Chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder
PS C:\Windows\system32> choco
Chocolatey v2.5.1
Please run 'choco -help' or 'choco commands -help' for help menu.
```

- Команда для установки:

```
choco install texlive
```

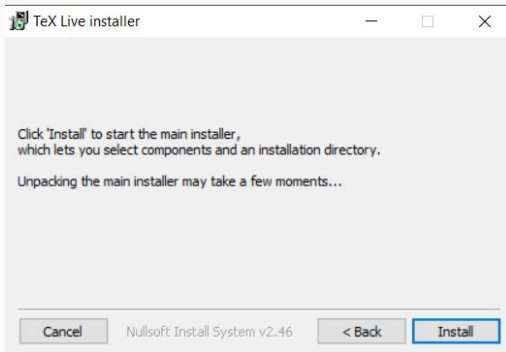
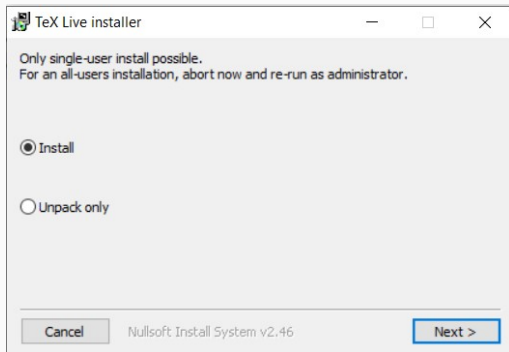
- Подтвердить выполнение (A + Enter)
- Дождаться окончания (30–90 минут)
- Сообщение: *The install of texlive was successful*


```
PS C:\Windows\system32> choco install texlive
Chocolatey v2.5.1
Installing the following packages:
texlive
By installing, you accept licenses for the packages.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading texlive 2025.20250902.0... 100%

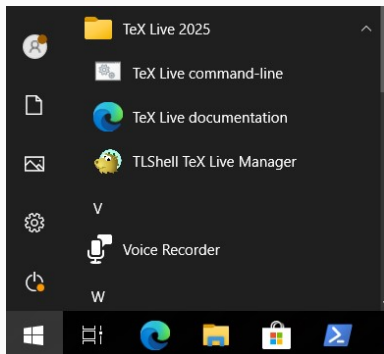
texlive v2025.20250902.0 [Approved]
texlive package files install completed. Performing other installation steps.
The package texlive wants to run 'chocolateyinstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll scripts/[N]o/[P]rint): A

Additional parameters for installer:
Writing Profile
Writing Profile using Passed Parameters.
TeX Live Profile will be written to C:\tools\texlive.profile
Extracting C:\ProgramData\chocolatey\lib\texlive\tools\install-tl.zip to C:\tools\install-tl-25092518...
C:\tools\install-tl-25092518
Automated TeX Live installation using profile: C:\tools\texlive.profile
Loading https://mirror.szerverem.hu/ctan/systems/texlive/tlnet/tlpkg/texlive.tlpdb
Installing TeX Live 2025 from: https://mirror.szerverem.hu/ctan/systems/texlive/tlnet (not verified)
Platform: windows => 'Windows (64-bit)'
Distribution: net (downloading)
Using URL: https://mirror.szerverem.hu/ctan/systems/texlive/tlnet
Directory for temporary files: C:\Users\VRNirdoshi\AppData\Local\Temp\gZUa4L0ZVW
Installing to: C:\texlive\2025
Installing [1/6, time/total: ??:??:??]: hyphen-base [23k]
Installing [2/6, time/total: 00:09:01:49:46]: kpathsea [1042k]
Installing [3/6, time/total: 00:13:03:17]: luatex [1957k]
Installing [4/6, time/total: 00:25:02:13]: texlive-scripts [556k]
Installing [5/6, time/total: 00:27:02:02]: texlive.infra [610k]
Installing [6/6, time/total: 00:42:02:42]: t1perl.windows [11991k]
Time used for installing the packages: 00:55
Installing [001/131, time/total: ??:??:??]: ae [84k]
Installing [002/131, time/total: 00:19:09:57:21]: amscs [1437k]
Installing [003/131, time/total: 00:36:01:01:53]: amsfnts [4725k]
Installing [004/131, time/total: 00:43:17:59]: amsmath [2427k]
Installing [005/131, time/total: 00:48:14:27]: atbegshi [409k]
Installing [006/131, time/total: 01:04:18:24]: atveryend [281k]
```

- Сайт: <https://www.tug.org/texlive/windows.html>
- Скачать `install-tl-windows.exe`
- Easy Install → Next → Install
- Каталог по умолчанию: `C:\texlive\2025`



- После установки появляется папка **TeX Live 2025** в меню Пуск
- Инструменты: cmd, документация, TLShell
- TLShell позволяет обновлять/удалять пакеты



TeX Live Shell

File

Repository (Not loaded)
<https://mirror.s2enverem.hu/ctan/systems/texlive/tlnet>
 Multi-user
 Root at C:/texlive/2025
 tlmgr: r75590
 tlshell: r75412

TL Manager up to date? Unknown
 Last tlmgr command: info --data name/remoterev/cat-version/category/shortdesc

PACKAGE LIST

Status
☒ Installed
☐ Not installed
☐ All
☐ Updatable

Detail >> Global
☒ All
☐ Collections and schemes
☐ Only schemes

Search

☒ By name
☐ By name and description

Install marked
 Update marked
 Remove marked
 Update tlmgr
 Update all

Mark all displayed Mark none Only packages for installed platforms are displayed

Name	Local rev. (ver.)	Remote rev. (ver.)	Description
ae	15878 (1.4)		Virtual fonts for T1 encoded CMR-fonts
amscs	55378 (2.20.6)		AMS document classes for LaTeX
amstex	61937 (3.04)		TeX fonts from the American Mathematical Society
amsmath	75534 (2025-06-01 f)		AMS mathematical facilities for LaTeX
atbegshi	53051 (1.19)		Execute stuff at 'shipout time
atveryend	72507 (1.12)		Hooks at the very end of a document
auxhook	53173 (1.6)		Hooks for auxiliary files
babel	75958 (25.12)		Multilingual support for LaTeX, LuaLaTeX, XeLaTeX, and PLaTeX

Running
 Show logs Restart tlmgr Restart self Quit

- Установлен Chocolatey и через него TeX Live 2025
- Установка прошла успешно
- Рассмотрен ручной способ установки
- Проверена работа TLShell
- Система готова для выполнения ЛР №2

Спасибо за внимание!