
Front matter

title: "Отчёт по лабораторной работе №1" subtitle: "Computer Skills for Scientific Writing" author: "Кодже Лемонго Арман"

Generic options

lang: ru-RU toc-title: "Содержание"

Bibliography

bibliography: bib/cite.bib csl: pandoc/csl/gost-r-7-0-5-2008-numeric.csl

Pdf output format

toc: true # Table of contents toc_depth: 2 lof: true # List of figures fontsize: 12pt linestretch: 1.5 papersize: a4 documentclass: scrreprt

l18n

polyglossia-lang: name: russian options: - spelling=modern - babelshorthands=true polyglossia-otherlangs: name: english

Fonts

mainfont: PT Serif romanfont: PT Serif sansfont: PT Sans monofont: PT Mono
mainfontoptions: Ligatures=TeX romanfontoptions: Ligatures=TeX
sansfontoptions: Ligatures=TeX,Scale=MatchLowercase monofontoptions:
Scale=MatchLowercase,Scale=0.9

Biblatex

biblatex: true biblio-style: "gost-numeric" biblatexoptions:

- parenttracker=true
- backend=biber
- hyperref=auto
- language=auto

- autolang=other*
- citestyle=gost-numeric

Misc options

indent: true header-includes:

- `\linepenalty=10` # the penalty added to the badness of each line within a paragraph (no associated penalty node) Increasing the value makes tex try to have fewer lines in the paragraph.
- `\interlinepenalty=0` # value of the penalty (node) added after each line of a paragraph.
- `\hyphenpenalty=50` # the penalty for line breaking at an automatically inserted hyphen
- `\exhyphenpenalty=50` # the penalty for line breaking at an explicit hyphen
- `\binoppenalty=700` # the penalty for breaking a line at a binary operator
- `\relpenalty=500` # the penalty for breaking a line at a relation
- `\clubpenalty=150` # extra penalty for breaking after first line of a paragraph
- `\widowpenalty=150` # extra penalty for breaking before last line of a paragraph
- `\displaywidowpenalty=50` # extra penalty for breaking before last line before a display math
- `\brokenpenalty=100` # extra penalty for page breaking after a hyphenated line
- `\predisplaypenalty=10000` # penalty for breaking before a display
- `\postdisplaypenalty=0` # penalty for breaking after a display
- `\floatingpenalty = 20000` # penalty for splitting an insertion (can only be split footnote in standard LaTeX)
- `\raggedbottom` # or `\flushbottom`
- `\usepackage{float}` # keep figures where there are in the text
- `\floatplacement{figure}{H}` # keep figures where there are in the text

Цель работы

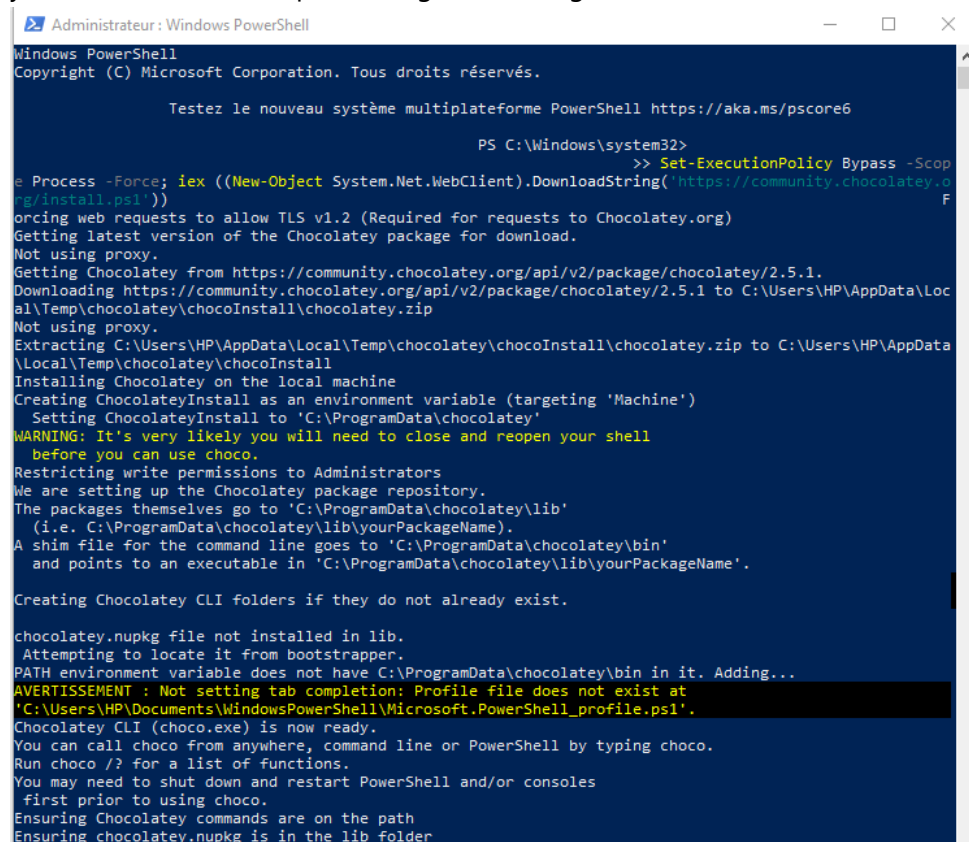
Установка TeXlive

Задание

Установить актуальную версию дистрибутива TeXLive

Выполнение лабораторной

Произвел установку дистрибутива TeXLive на операционной системе Windows с помощью установщика choco. для этого нам сначала нужно установить choco (см. рис. [-@fig:001], [-@fig:001]).



```
Administrateur : Windows PowerShell
Windows PowerShell
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Testez le nouveau système multiplateforme PowerShell https://aka.ms/pscore6

PS C:\Windows\system32>
>> Set-ExecutionPolicy Bypass -Scope Process -Force; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))
Warning: Executing 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\HP\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\HP\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\HP\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...
AVERTISSEMENT : Not setting tab completion: Profile file does not exist at
'C:\Users\HP\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
```

{#fig:001}

с помощью команды choco install texlive, мы будем установить texlive. (см. рис. [-@fig:002], [-@fig:002]). (см. рис. [-@fig:003], [-@fig:003]).

```
choco install texlive
```

```

Administrator : Invite de commandes

Microsoft Windows [version 10.0.19045.5965]
(c) Microsoft Corporation. Tous droits réservés.

C:\Windows\system32>choco
Chocolatey v2.5.1
Please run 'choco --help' or 'choco <command> --help' for help menu.

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): y

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-25092521...
C:\tools\install-tl-25092521
Automated TeX Live installation using profile: C:\tools\texlive.profile
Loading https://mirror.truenetwork.ru/CTAN/systems/texlive/tlnet/tlpkg/texlive.tlpdb
Installing TeX Live 2025 from: https://mirror.truenetwork.ru/CTAN/systems/texlive/tlnet (not verified)
Platform: windows => 'Windows (64-bit)'
Distribution: net (downloading)

```

{#fig:002}

```

pre-generating all format files, be patient...
[21:29:24] running fmtutil-sys --no-error-if-no-engine=luametatex,luajithbtex,luajittex,mfluajit --no-
running path adjustment actions
finished with path adjustment actions
[21:30:41] running package-specific postactions
[21:30:42] finished with package-specific postactions

Logfile: C:\texlive\2025\install-tl.log
texlive may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type `refreshenv`).
The install of texlive was successful.
Deployed to 'C:\tools\install-tl-25092521'

Chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

```

{#fig:003}

Выводы

в конце нашей лабораторной работы, я установил актуальную версию дистрибутива TeXLive

Список литературы{.unnumbered}

1. [latex](#)
2. [chocolatey](#)