

INSTALLATION GUIDES

[FOR WINDOWS 10]

Text Analytics in the Digital Humanities (FS 22)

PD Dr. Gerold Schneider

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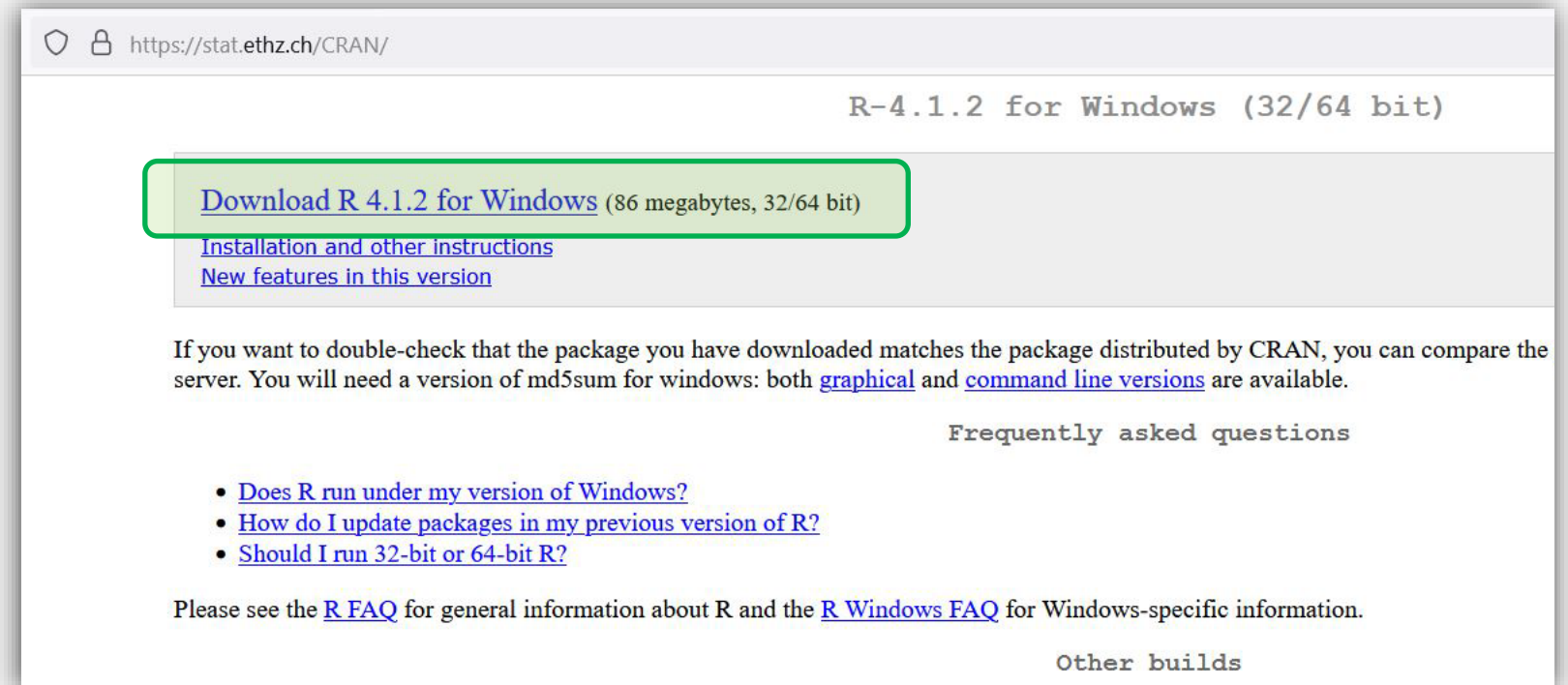
1. Please visit

<https://stat.ethz.ch/CRAN/bin/windows/base/>

2. Download

“R 4.1.2 for Windows”

3. Install the program



https://stat.ethz.ch/CRAN/

R-4.1.2 for Windows (32/64 bit)

[Download R 4.1.2 for Windows](#) (86 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the server. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

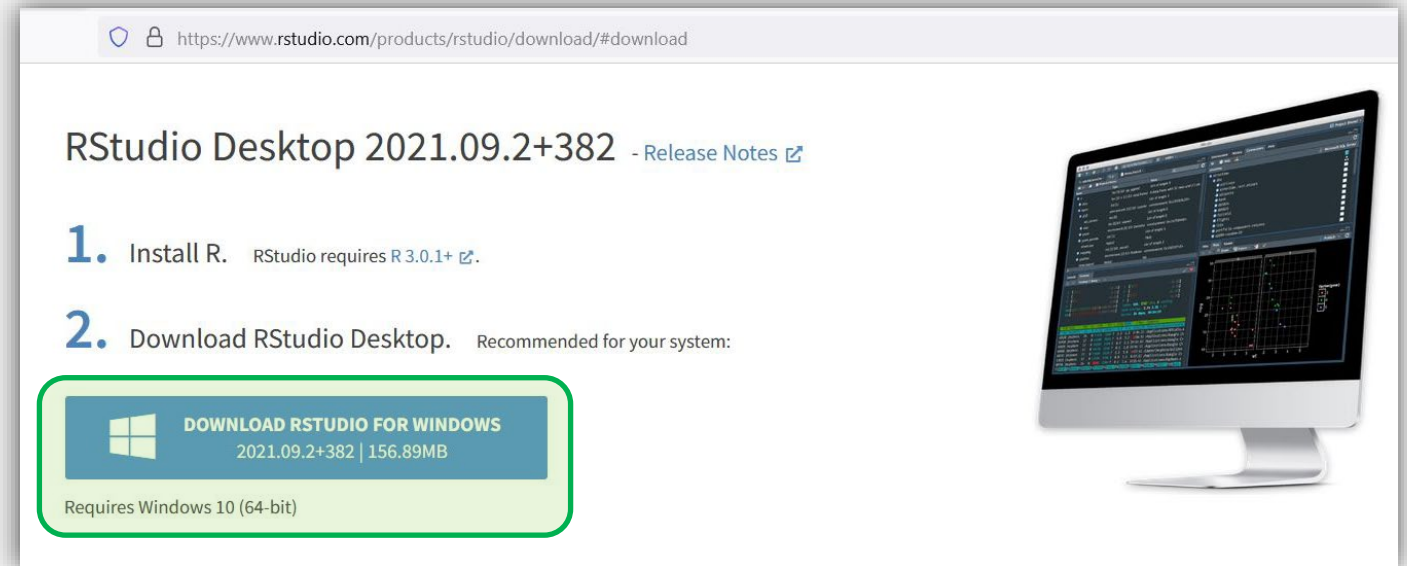
Frequently asked questions

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

Other builds

1. Then go to <https://www.rstudio.com/products/rstudio/download/#download>
2. Download “RStudio Desktop” (RStudio-2021.09.2-382)
3. Install the program

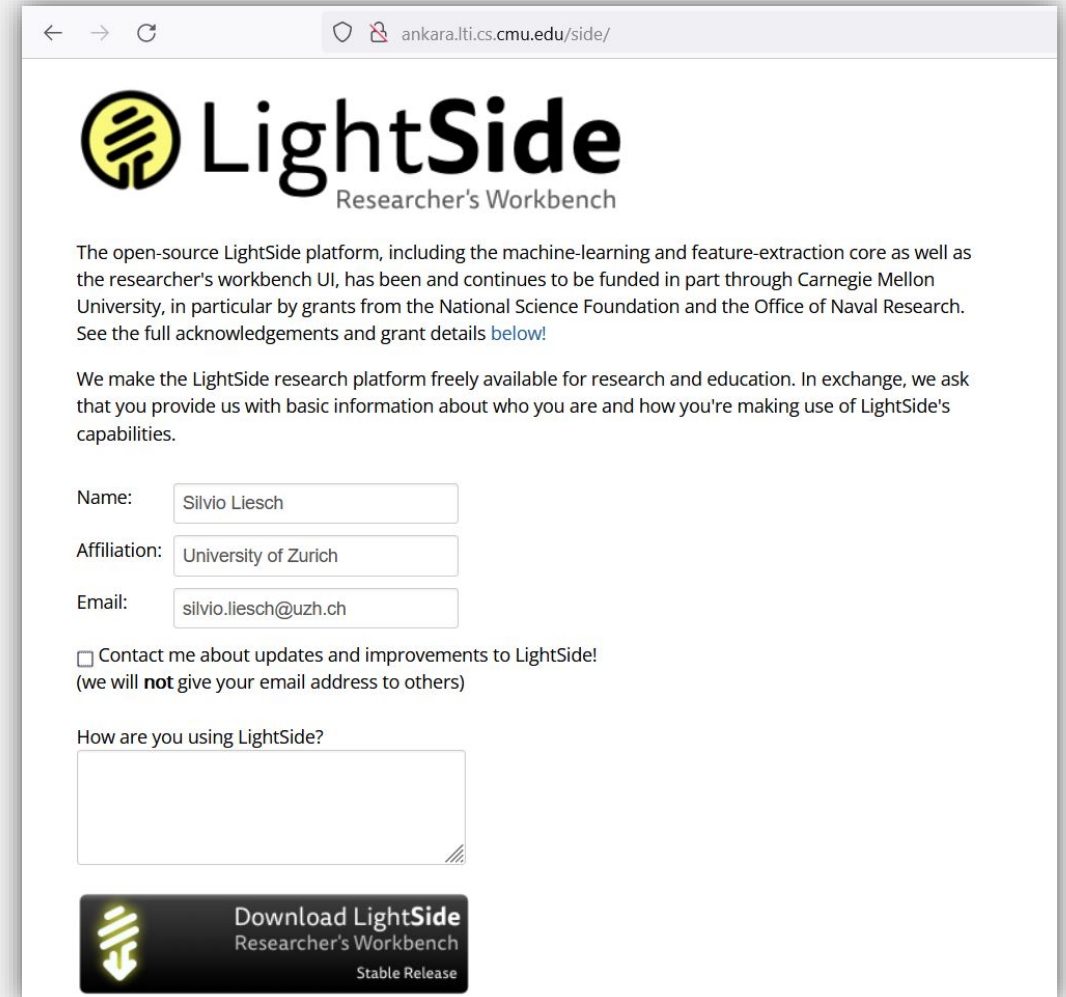


ANTCONC

1. Please visit <https://www.laurenceanthony.net/software/antconc/>
2. Download “Windows (Installer) (4.0.4) [Recommended]”
3. Install the program

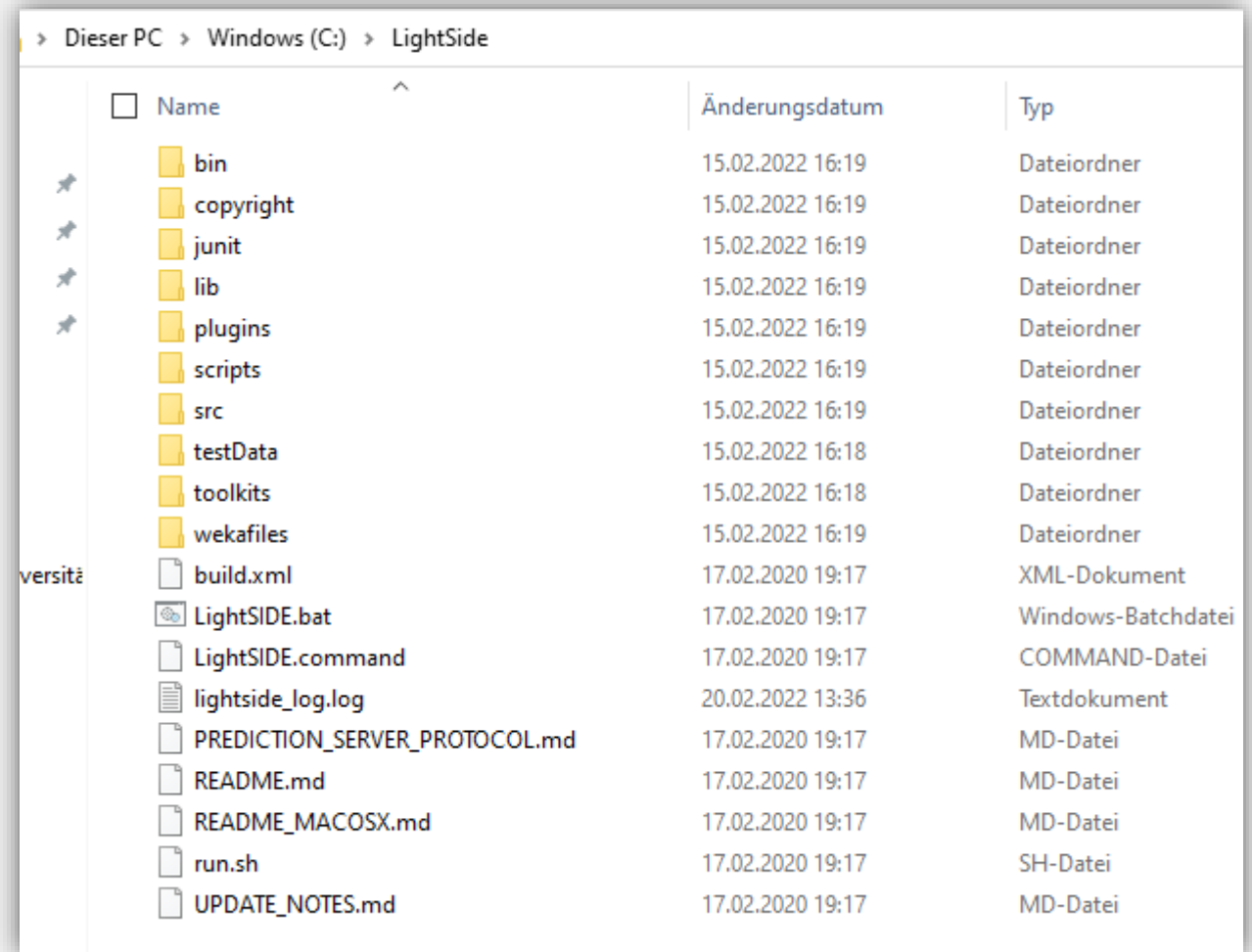
The screenshot shows the AntConc website homepage and a preview of the software interface. The website header includes the URL <https://www.laurenceanthony.net/software/antconc/> and the title "Laurence Anthony's Website". The navigation menu contains links for Home, Resume, Publications, Software, Classes, Photo Albums, Links, and Contact. The main content area features the "AntConc Homepage" and "Latest Release" sections. An illustration of an ant on a blue book is positioned next to the software description: "AntConc: A freeware corpus analysis toolkit for concordancing and text analysis." Below this, there are links for "[AntConc Homepage]", "[Screenshots]", "[Help]", and "[License]". The "Downloads:" section lists "Official releases" with a green box highlighting "Windows (Installer) (4.0.4) [Recommended]". Other releases include "Windows (Portable) (4.0.4)", "MacOS 10/11 (4.0.4)", "Linux (Portable) (4.0.4)", and "Older versions". On the right, a window titled "AntConc" displays a concordance table with columns for File, Left Context, Word, and Right Context, showing search results for the word "and".

1. Please visit <http://ankara.lti.cs.cmu.edu/side/>
2. Download **“LightSide”** (*By the way, you can download the program without entering your name, etc.*)
3. Install the program





The screenshot shows a web browser window with the URL ankara.lti.cs.cmu.edu/side/. The page features the LightSide logo (a stylized 'S' inside a circle) and the text "LightSide Researcher's Workbench". Below the logo, there is a paragraph of text describing the platform and its funding. A registration form follows, with fields for Name (Silvio Liesch), Affiliation (University of Zurich), and Email (silvio.liesch@uzh.ch). There is a checkbox for "Contact me about updates and improvements to LightSide!" and a text area for "How are you using LightSide?". At the bottom, there is a button labeled "Download LightSide Researcher's Workbench Stable Release".

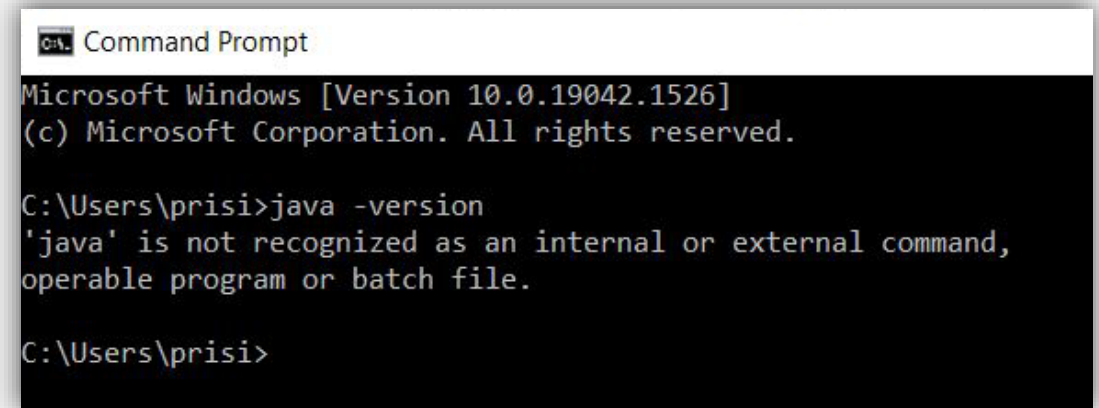
1. Create a folder called “LightSide” in your C drive (C:\)
2. Unzip “LightSide.zip”
3. Now move the content of the “LightSide” folder directly to C:\LightSide



Name	Änderungsdatum	Typ
bin	15.02.2022 16:19	Dateiordner
copyright	15.02.2022 16:19	Dateiordner
junit	15.02.2022 16:19	Dateiordner
lib	15.02.2022 16:19	Dateiordner
plugins	15.02.2022 16:19	Dateiordner
scripts	15.02.2022 16:19	Dateiordner
src	15.02.2022 16:19	Dateiordner
testData	15.02.2022 16:18	Dateiordner
toolkits	15.02.2022 16:18	Dateiordner
wekafiles	15.02.2022 16:19	Dateiordner
build.xml	17.02.2020 19:17	XML-Dokument
LightSIDE.bat	17.02.2020 19:17	Windows-Batchdatei
LightSIDE.command	17.02.2020 19:17	COMMAND-Datei
lightside_log.log	20.02.2022 13:36	Textdokument
PREDICTION_SERVER_PROTOCOL.md	17.02.2020 19:17	MD-Datei
README.md	17.02.2020 19:17	MD-Datei
README_MACOSX.md	17.02.2020 19:17	MD-Datei
run.sh	17.02.2020 19:17	SH-Datei
UPDATE_NOTES.md	17.02.2020 19:17	MD-Datei

1. Since LightSide uses Java, we now need to make sure that you have Java installed on your computer.
2. To do this, open your Command Prompt (Terminal):  + “cmd”,  + “terminal”, etc.
3. Then type “java -version” and hit Enter.
4. If you don't have Java yet, you will get a response similar to the one showed in the upper right.

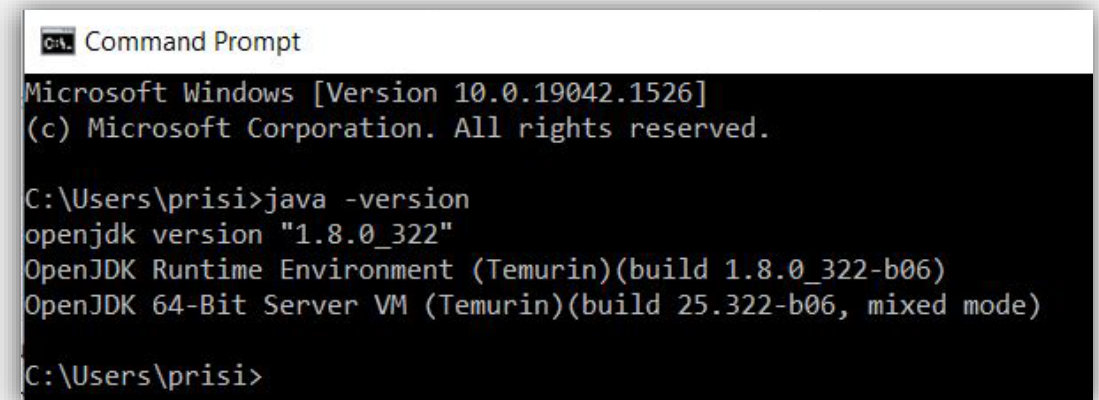
If Java is already installed, the particular version will be listed (cf. the 2nd screenshot).



```
Command Prompt
Microsoft Windows [Version 10.0.19042.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\prisi>java -version
'java' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\prisi>
```



```
Command Prompt
Microsoft Windows [Version 10.0.19042.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\prisi>java -version
openjdk version "1.8.0_322"
OpenJDK Runtime Environment (Temurin)(build 1.8.0_322-b06)
OpenJDK 64-Bit Server VM (Temurin)(build 25.322-b06, mixed mode)

C:\Users\prisi>
```


1. Chances are we will have to (re)install Java either way because LightSide requires an older version of Java.
2. We recommend installing the Java development kit (JDK) version 8 (which is sometimes called “1.8”, too).
3. OpenLogic provides and supports free distributions of OpenJDK 8:

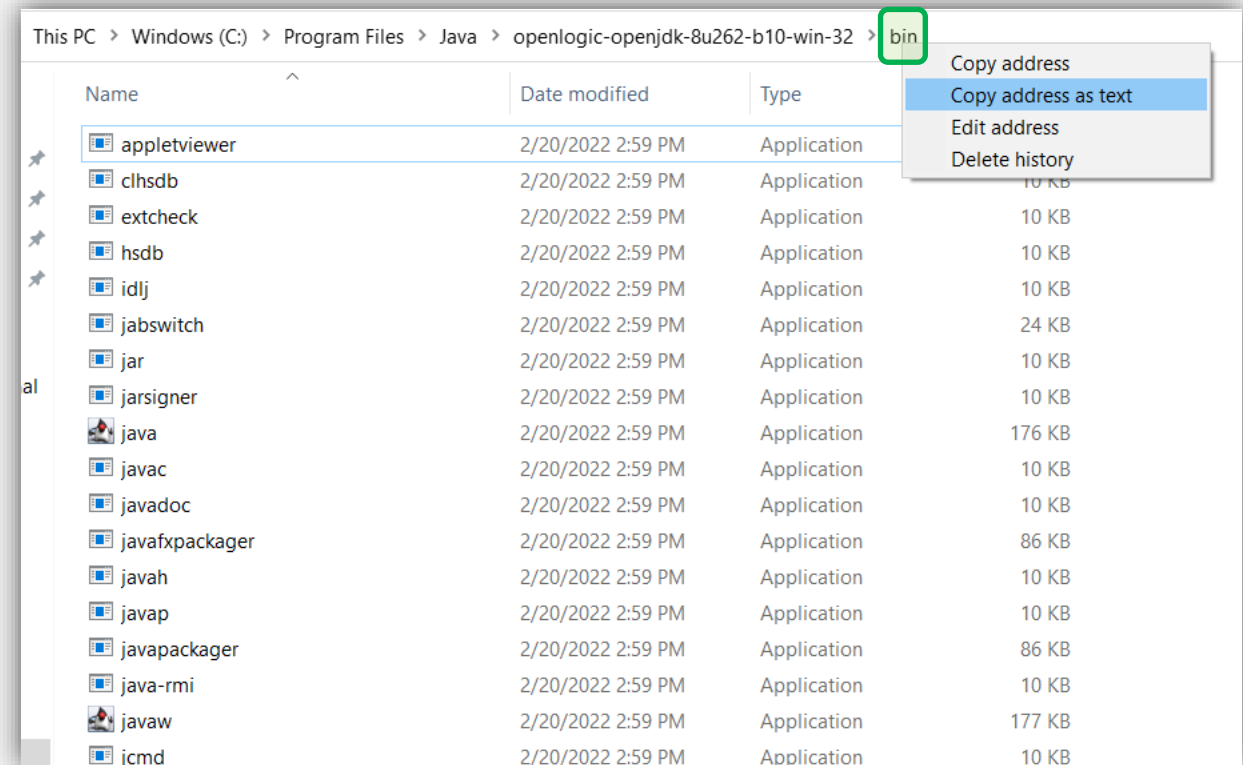
<https://www.openlogic.com/openjdk-downloads>

Screenshot of the OpenLogic OpenJDK download page. The page shows a search filter for Java 8 on Windows, x86 64-bit architecture, and JDK package. Below the filter is a table of available Java 8 versions with download links for .msi and .zip files.

JAVA VERSION	OPERATING SYSTEM	ARCHITECTURE	JAVA PACKAGE	DOWNLOAD
8u262-b10	Windows	x86 64-bit	JDK	.msi .zip
8u272-b10	Windows	x86 64-bit	JDK	.msi .zip
8u282-b08	Windows	x86 64-bit	JDK	.msi .zip
8u292-b10	Windows	x86 64-bit	JDK	.zip .msi

1. **After the download, you can move the unzipped folder to the location you wish to store it (we've chosen "C:\Program Files\Java").**
2. **We then need to find the subfolder called "bin" and copy its exact path or "address".**

→ *You can copy the address by right-clicking on "bin" in the path at the top of the window, as shown to the right.*



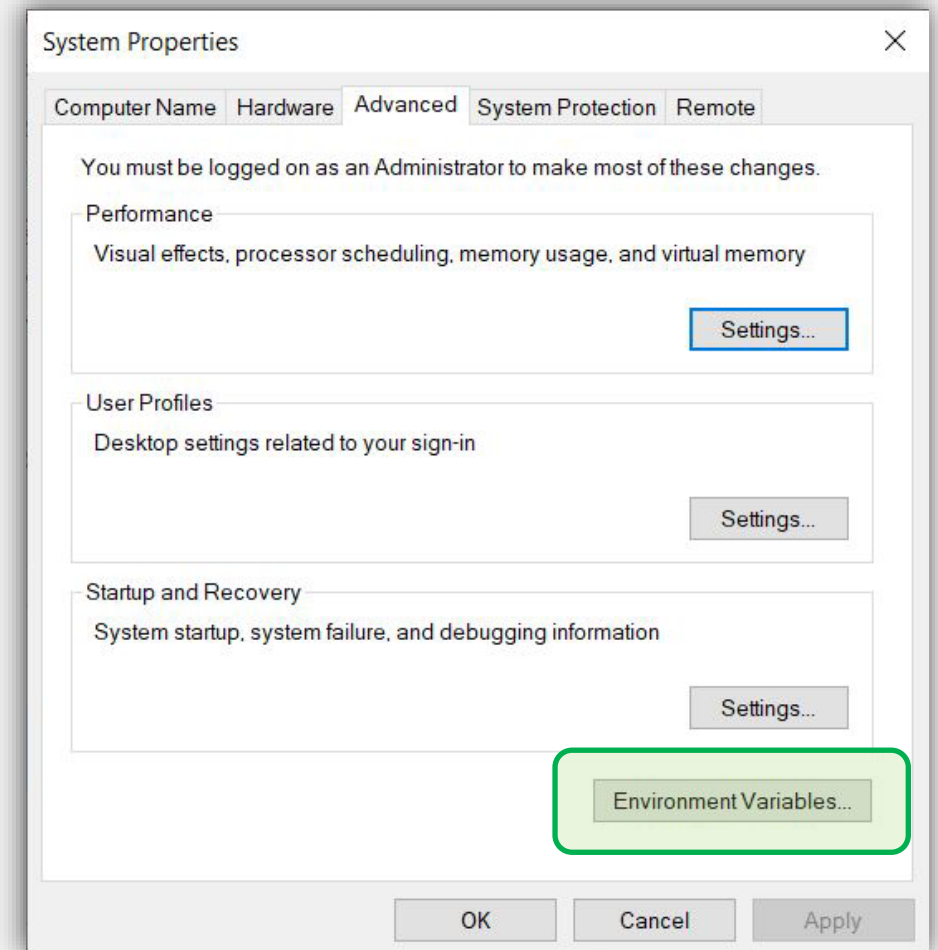
I. Go to your Environment Variables:

System Properties

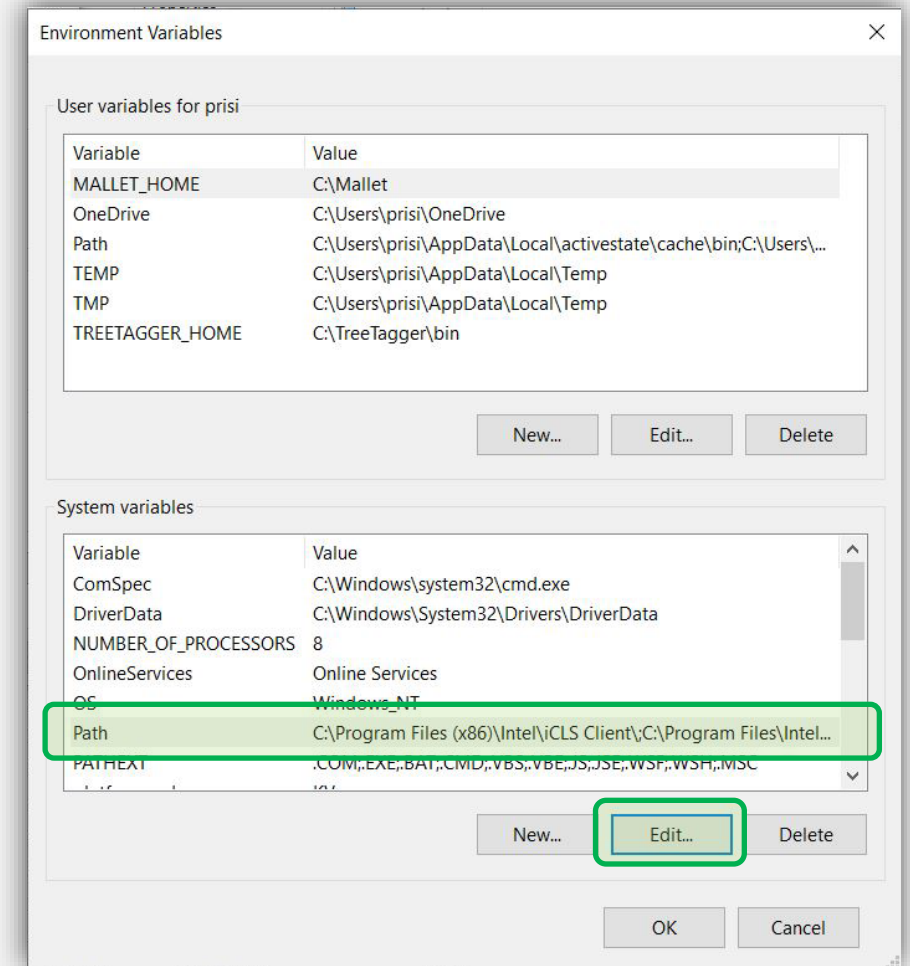
→ **Advanced**

→ **Environment Variables...**

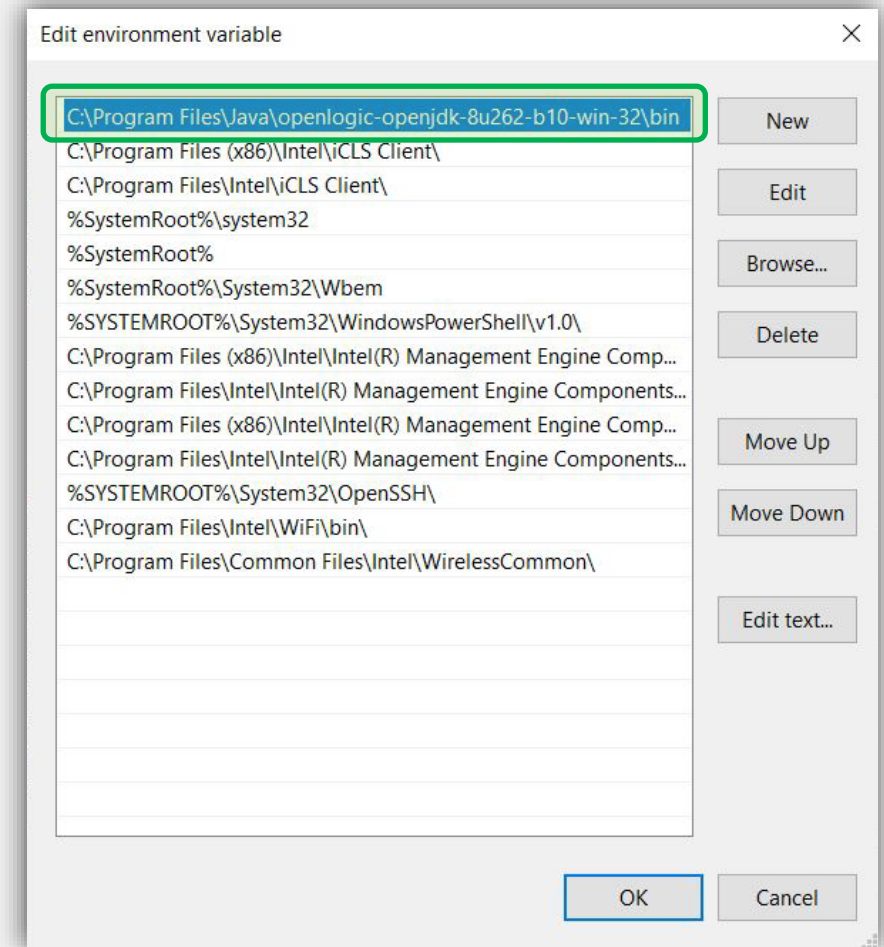
(or just  + “environment variables”)



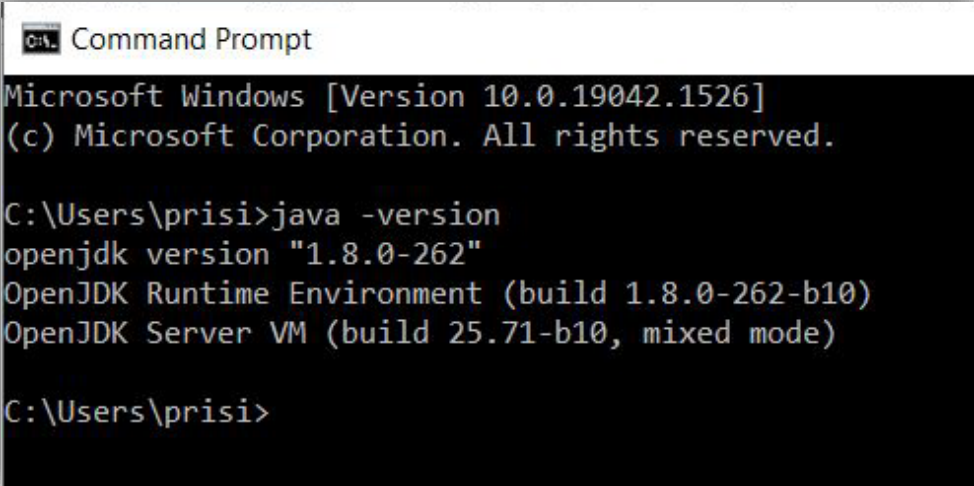
1. Look for “Path” in the list of “System variables” and click “Edit...”.



1. **Create a new environment variable by clicking on “New” and paste the address of the “bin” subfolder we’ve copied earlier on.**
2. **Make sure the new environment variable is at the very top of the list (use the “Move Up” button).**
3. **(Alternatively, you can click on “Edit text...” and paste your address at the beginning of this long single line. Please note that a semicolon must be set at the end of the path to mark the boundary to the next path.)**



- I. To see if everything has worked out, you can now check again in your **Command Prompt** and type “`java -version`”.



```
Command Prompt
Microsoft Windows [Version 10.0.19042.1526]
(c) Microsoft Corporation. All rights reserved.

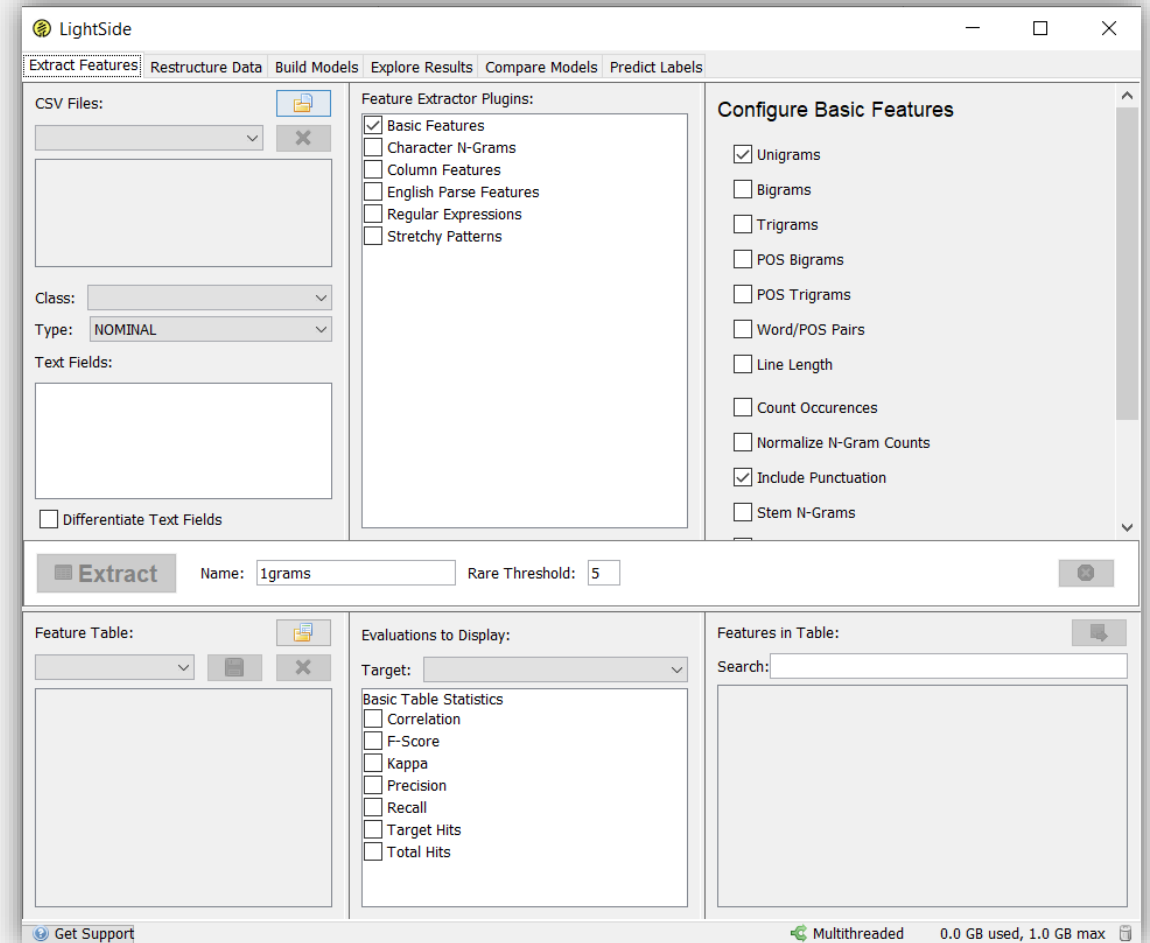
C:\Users\prisi>java -version
openjdk version "1.8.0-262"
OpenJDK Runtime Environment (build 1.8.0-262-b10)
OpenJDK Server VM (build 25.71-b10, mixed mode)

C:\Users\prisi>
```

LIGHTSIDE

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1. After we have successfully installed Java, we can finally start LightSide by clicking the “LightSIDE.bat” file in your LightSide folder.



1. Please visit

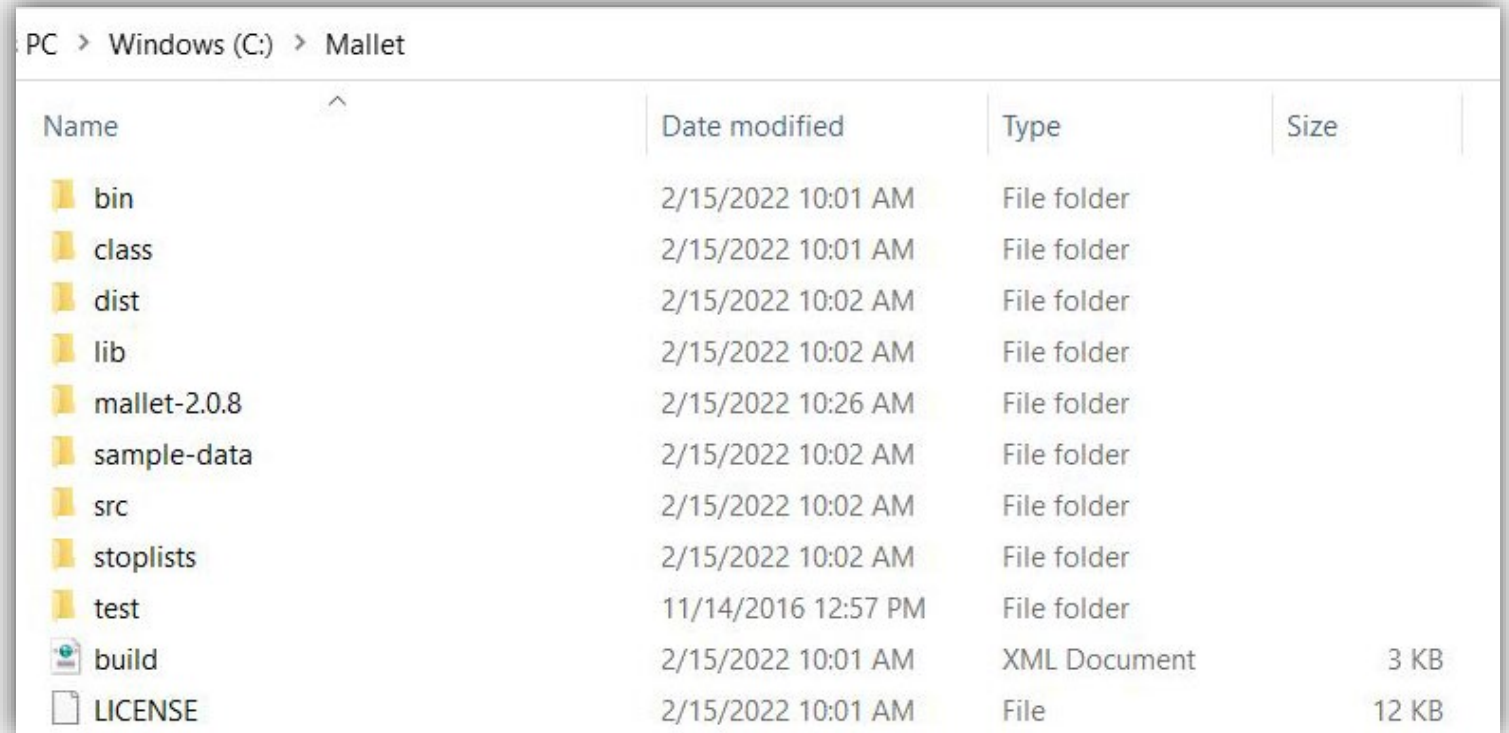
<https://mallet.cs.umass.edu/download.php>

2. Download

“mallet-2.0.8.zip”

The screenshot shows a web browser window at the URL <https://mallet.cs.umass.edu/download.php>. The page header features the Mallet logo and the text "MACHINE Learning for Language Toolkit". A dark red sidebar on the left contains a navigation menu with links: Home, Tutorial slides / video, Download, API, Quick Start, Sponsors, Mailing List, About, Importing Data, Classification, Sequence Tagging, Topic Modeling, and Optimization. The main content area displays "Current release: The following packaged release of MALLET 2.0 is" followed by two links: [mallet-2.0.8.tar.gz](#) and [mallet-2.0.8.zip](#). The [mallet-2.0.8.zip](#) link is highlighted with a green box. A file download dialog box is open over the page, titled "Öffnen von mallet-2.0.8.zip". It shows the file name "mallet-2.0.8.zip", its type as "Compressed (zipped) Folder (15.4 MB)", and its source as "https://mallet.cs.umass.edu". Under the heading "Wie soll Firefox mit dieser Datei verfahren?", there are three options: "Öffnen mit" (set to "Windows-Explorer (Standard)"), "Datei speichern" (selected), and "Für Dateien dieses Typs immer diese Aktion ausführen".

1. **Create a folder called “Mallet” in your C drive (C:\)**
2. **Unzip “mallet-2.0.8.zip”**
3. **Now move the content of “mallet-2.0.8” directly to C:\Mallet**



Name	Date modified	Type	Size
bin	2/15/2022 10:01 AM	File folder	
class	2/15/2022 10:01 AM	File folder	
dist	2/15/2022 10:02 AM	File folder	
lib	2/15/2022 10:02 AM	File folder	
mallet-2.0.8	2/15/2022 10:26 AM	File folder	
sample-data	2/15/2022 10:02 AM	File folder	
src	2/15/2022 10:02 AM	File folder	
stoplists	2/15/2022 10:02 AM	File folder	
test	11/14/2016 12:57 PM	File folder	
build	2/15/2022 10:01 AM	XML Document	3 KB
LICENSE	2/15/2022 10:01 AM	File	12 KB

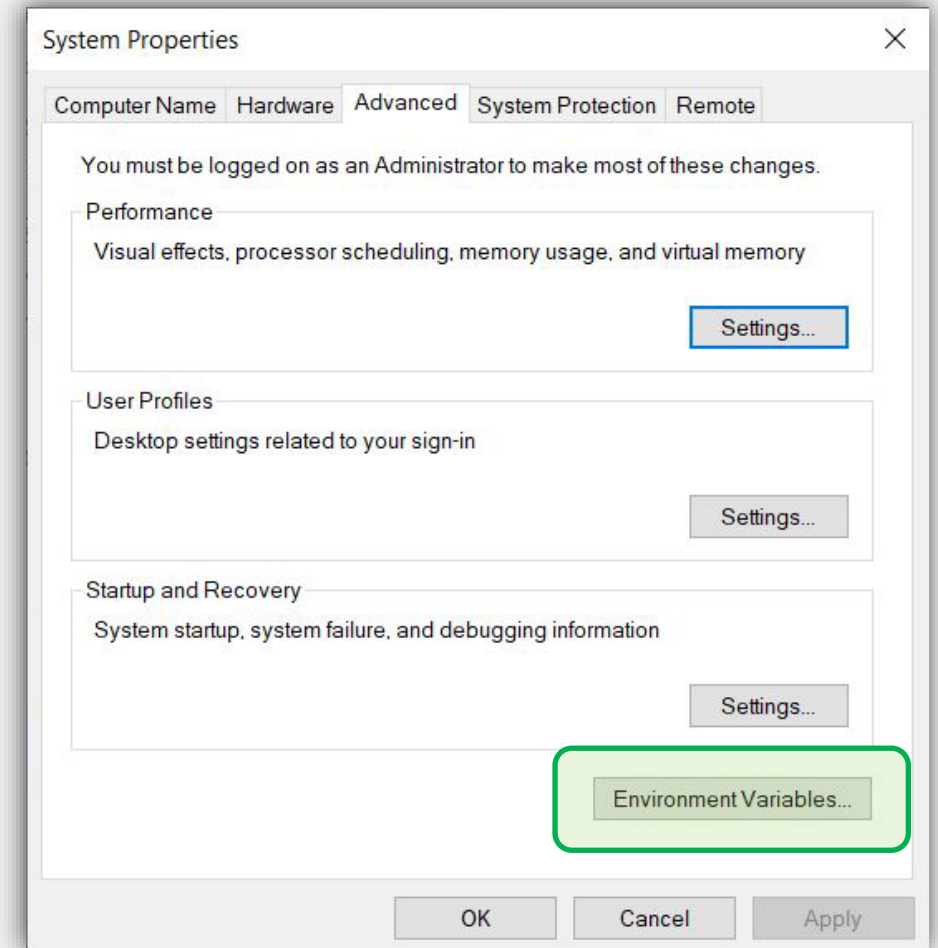
I. Go to your Environment Variables:

System Properties

→ **Advanced**

→ **Environment Variables...**

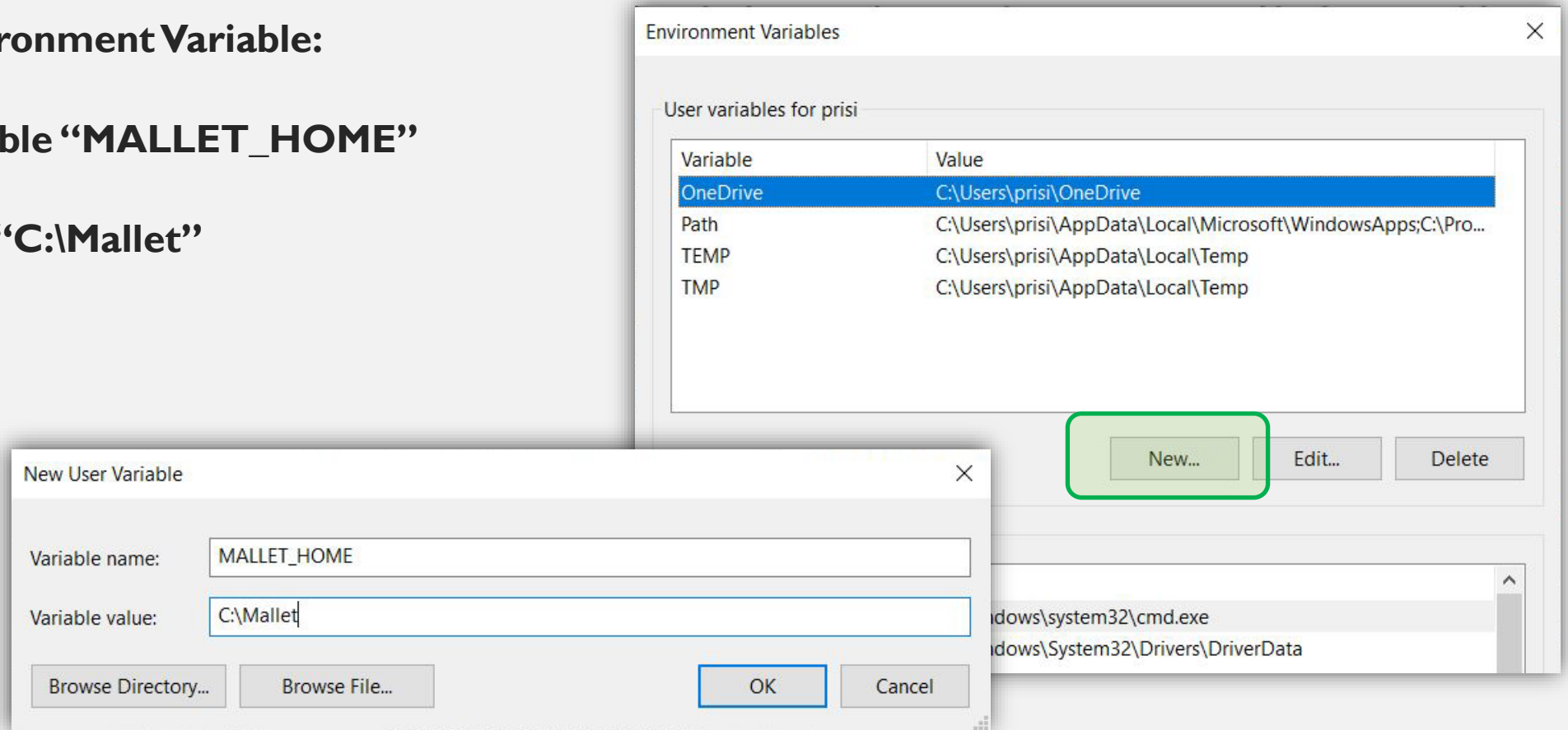
(or just  + “environment variables”)





MALLET

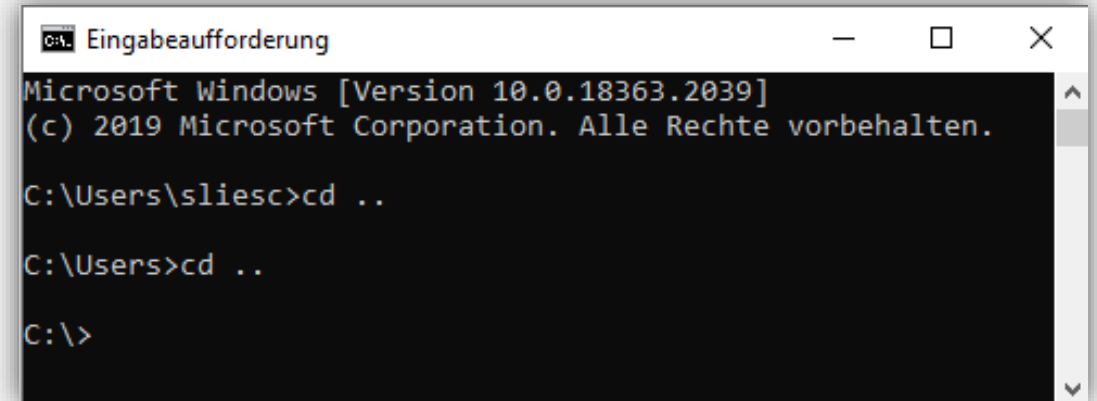
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1. Add a new Environment Variable:
2. Name the variable “MALLET_HOME”
3. Set its value to “C:\Mallet”

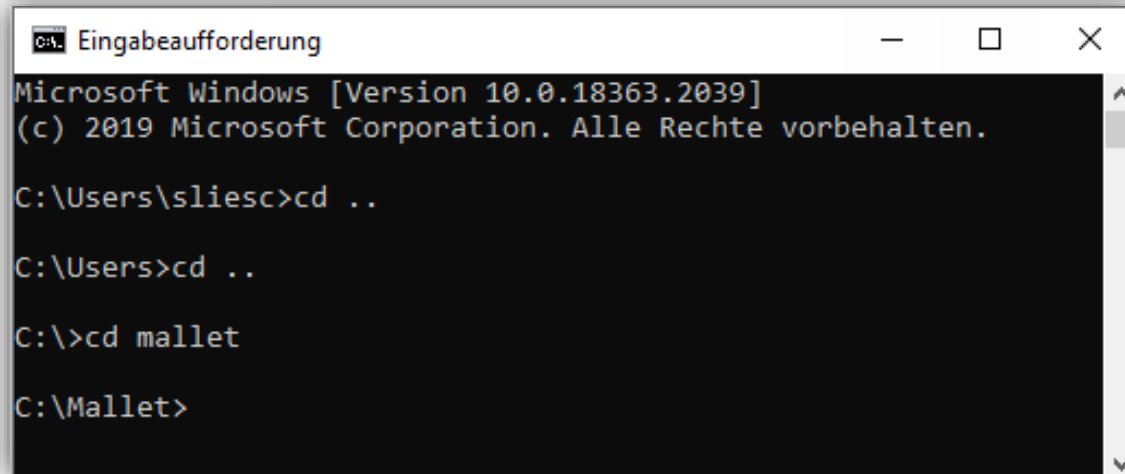


1. **Open your Command Prompt (Terminal)**
( + “cmd”,  + “terminal”, etc.)
2. **Type “cd ..” and hit Enter until you reach your C:**

→ “cd” means “change directory”, while “cd ..” moves down one level of the directory tree
3. **Then type “cd mallet” in order to get to Mallet’s directory**



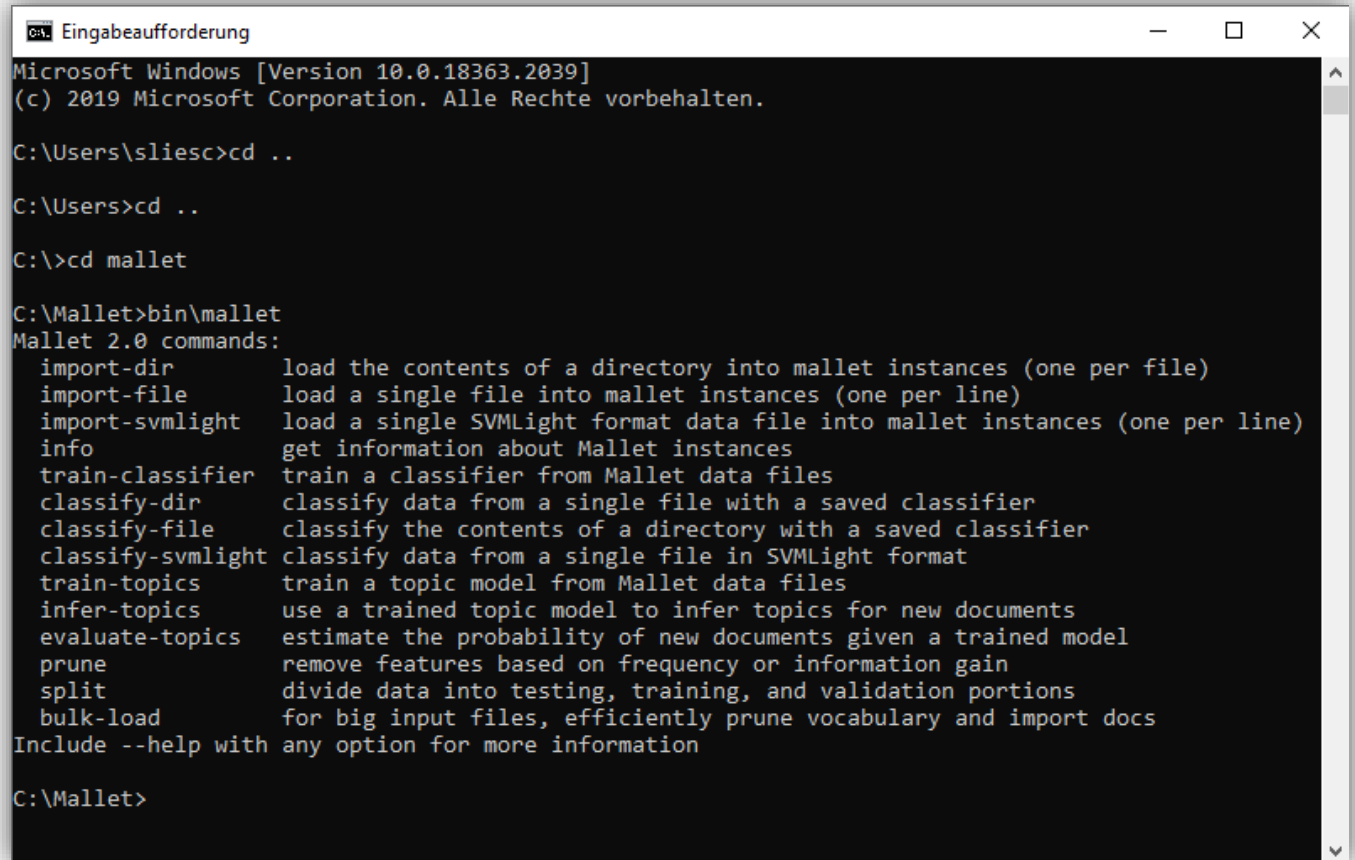
```
C:\Users\sliesc>cd ..  
C:\Users>cd ..  
C:\>
```



```
C:\Users\sliesc>cd ..  
C:\Users>cd ..  
C:\>cd mallet  
C:\Mallet>
```

1. Add “bin\mallet” to the code line (C:\Mallet>bin\mallet)
2. You should now see a list of all the commands for Mallet.

→ *If this is the case, the program is installed properly.*



```
Eingabeaufforderung
Microsoft Windows [Version 10.0.18363.2039]
(c) 2019 Microsoft Corporation. Alle Rechte vorbehalten.

C:\Users\sliesc>cd ..

C:\Users>cd ..

C:\>cd mallet

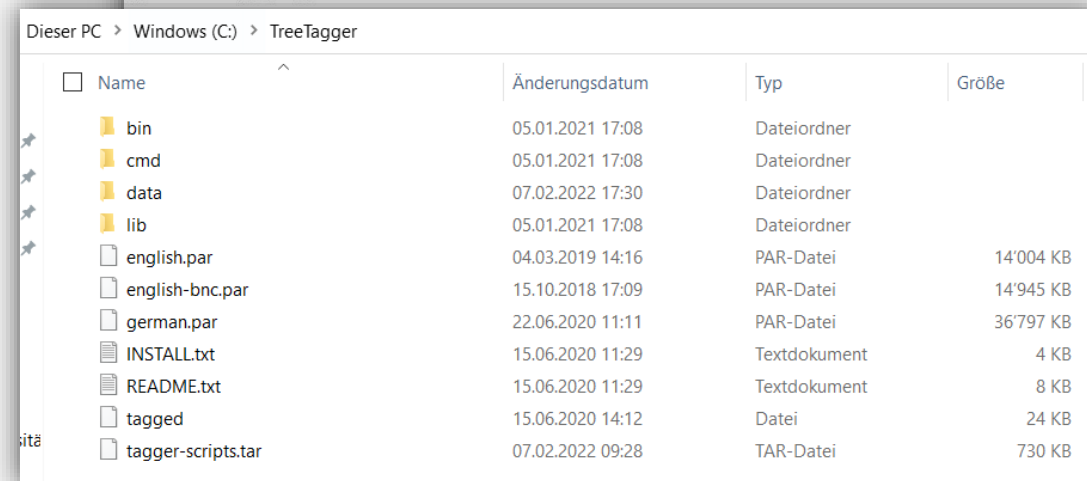
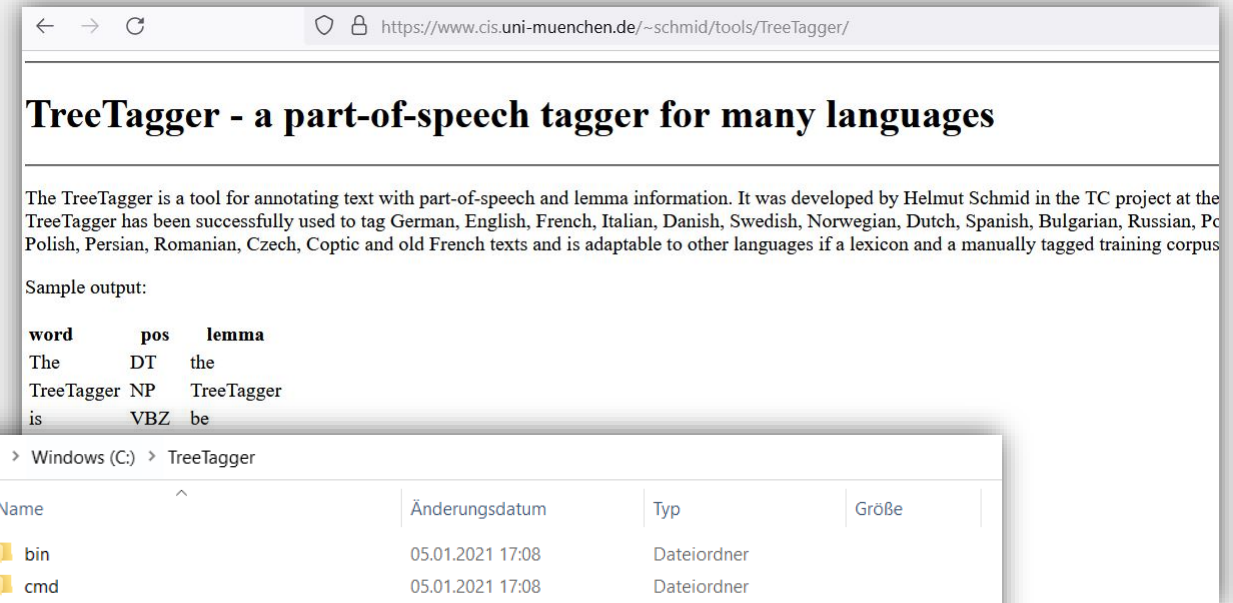
C:\Mallet>bin\mallet
Mallet 2.0 commands:
import-dir      load the contents of a directory into mallet instances (one per file)
import-file     load a single file into mallet instances (one per line)
import-svmlight load a single SVMlight format data file into mallet instances (one per line)
info            get information about Mallet instances
train-classifier train a classifier from Mallet data files
classify-dir    classify data from a single file with a saved classifier
classify-file   classify the contents of a directory with a saved classifier
classify-svmlight classify data from a single file in SVMlight format
train-topics    train a topic model from Mallet data files
infer-topics    use a trained topic model to infer topics for new documents
evaluate-topics estimate the probability of new documents given a trained model
prune           remove features based on frequency or information gain
split           divide data into testing, training, and validation portions
bulk-load       for big input files, efficiently prune vocabulary and import docs
Include --help with any option for more information

C:\Mallet>
```

TREETAGGER

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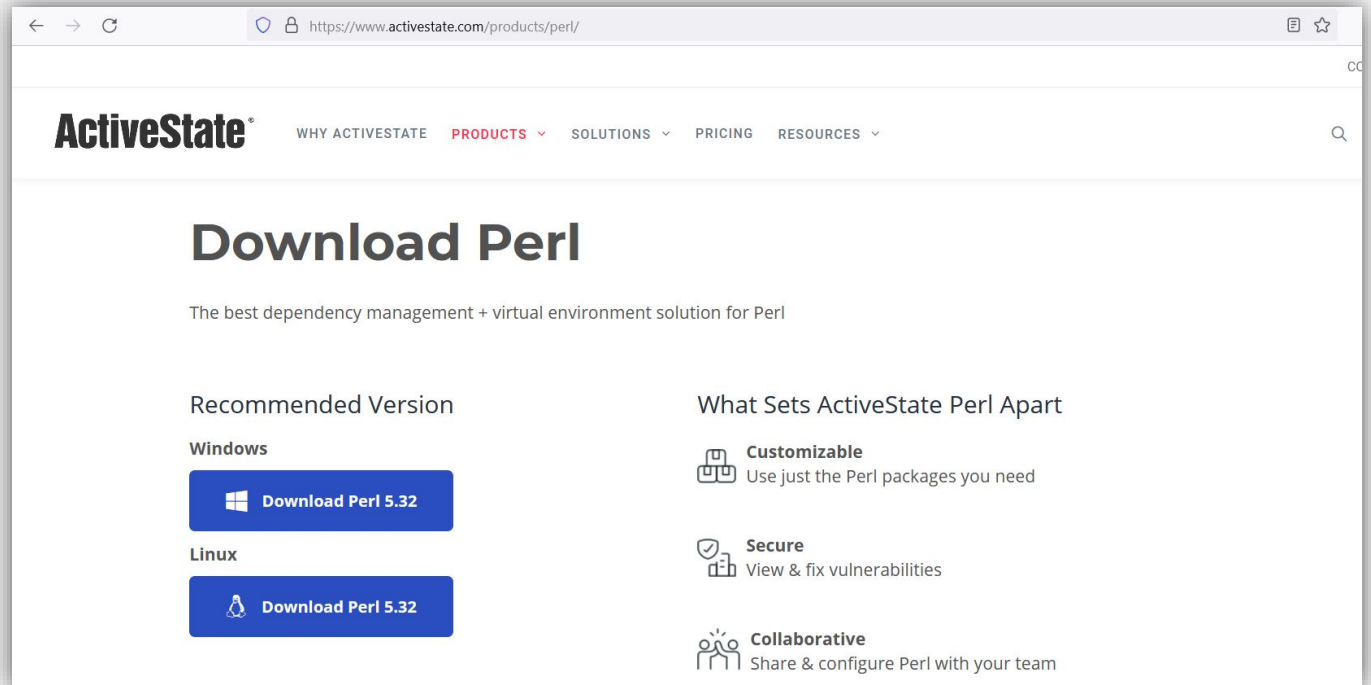
1. Please visit <https://www.cis.uni-muenchen.de/~schmid/tools/TreeTagger/>
2. Scroll down and download the Windows version.
3. Create a folder called “TreeTagger” in your root directory (C:\) and move the content of the extracted zip file there.



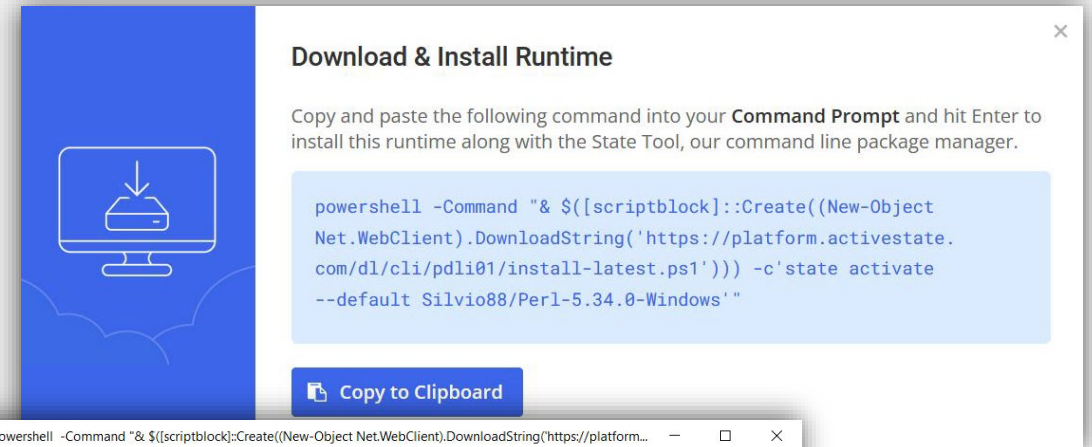
1. In order to use TreeTagger, we need to install a Perl interpreter first.
2. You can download Perl at ActiveState (where you have to register or sign up with an existing GitHub account):

<https://www.activestate.com/products/perl/>

3. Download Perl (either in the 5.32 or 5.34 version).



1. You then receive a command: Copy it and then paste it in your Command Prompt.
2. This will start the installation of Perl on your computer by creating a project linked to your account.

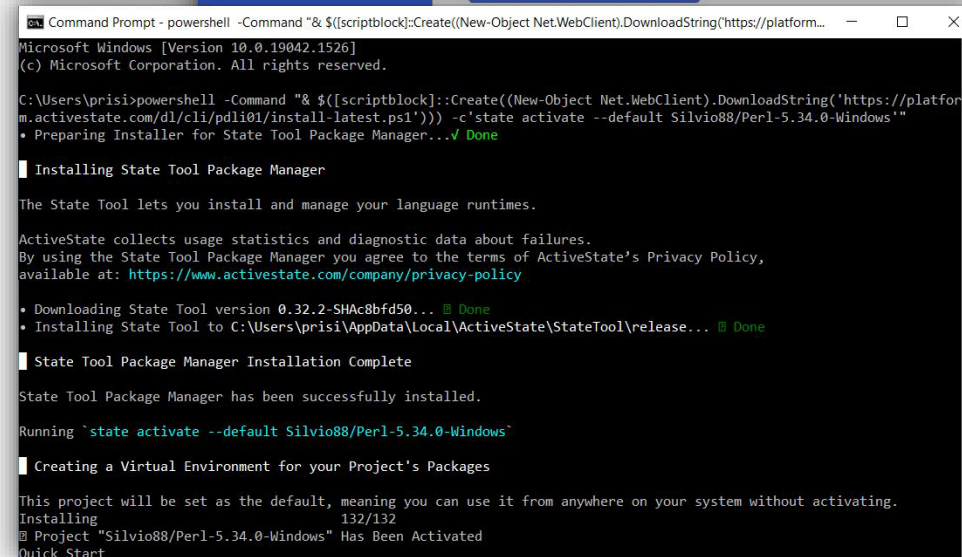


Download & Install Runtime

Copy and paste the following command into your **Command Prompt** and hit Enter to install this runtime along with the State Tool, our command line package manager.

```
powershell -Command "& ${[scriptblock]::Create((New-Object Net.WebClient).DownloadString('https://platform.activestate.com/dl/cli/pdli01/install-latest.ps1'))} -c'state activate --default Silvio88/Perl-5.34.0-Windows'"
```

Copy to Clipboard



```
Command Prompt - powershell -Command "& ${[scriptblock]::Create((New-Object Net.WebClient).DownloadString('https://platform... - □ ×
Microsoft Windows [Version 10.0.19042.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\prisi>powershell -Command "& ${[scriptblock]::Create((New-Object Net.WebClient).DownloadString('https://platform
m.activestate.com/dl/cli/pdli01/install-latest.ps1'))} -c'state activate --default Silvio88/Perl-5.34.0-Windows'"
• Preparing Installer for State Tool Package Manager...√ Done

■ Installing State Tool Package Manager

The State Tool lets you install and manage your language runtimes.

ActiveState collects usage statistics and diagnostic data about failures.
By using the State Tool Package Manager you agree to the terms of ActiveState's Privacy Policy,
available at: https://www.activestate.com/company/privacy-policy

• Downloading State Tool version 0.32.2-SHAc8bfd50... ■ Done
• Installing State Tool to C:\Users\prisi\AppData\Local\ActiveState\StateTool\release... ■ Done

■ State Tool Package Manager Installation Complete

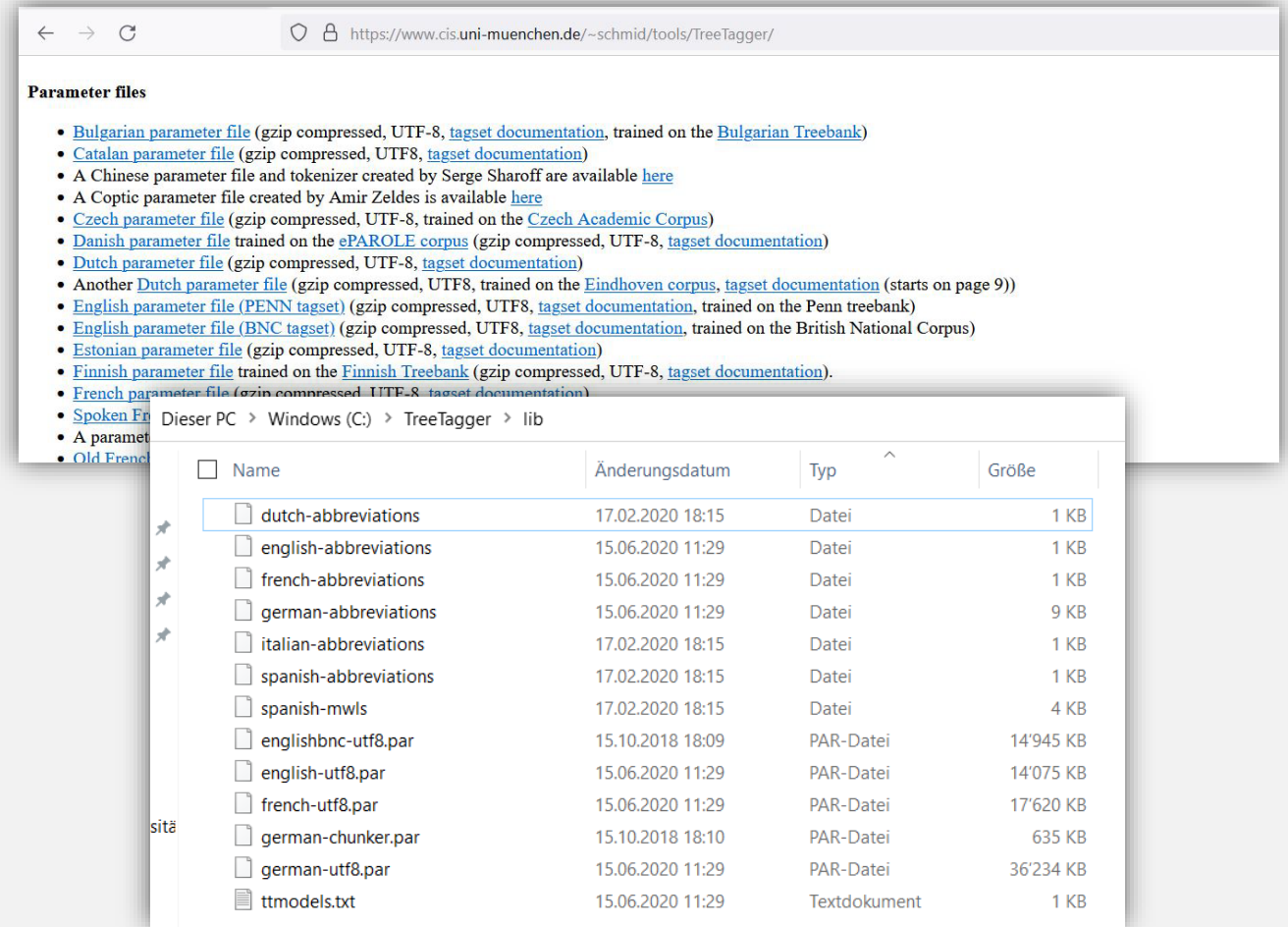
State Tool Package Manager has been successfully installed.

Running 'state activate --default Silvio88/Perl-5.34.0-Windows'

■ Creating a Virtual Environment for your Project's Packages

This project will be set as the default, meaning you can use it from anywhere on your system without activating.
Installing 132/132
@ Project "Silvio88/Perl-5.34.0-Windows" Has Been Activated
Quick Start
```


1. Go back to the TreeTagger website and download the parameter files for the language(s) you need.
2. Decompress these files (e.g. using 7zip) and move them to the subdirectory “lib” (C:\TreeTagger\lib).
3. Rename the parameter files to <language>-utf8.par:
 → e.g. “english-utf8.par”



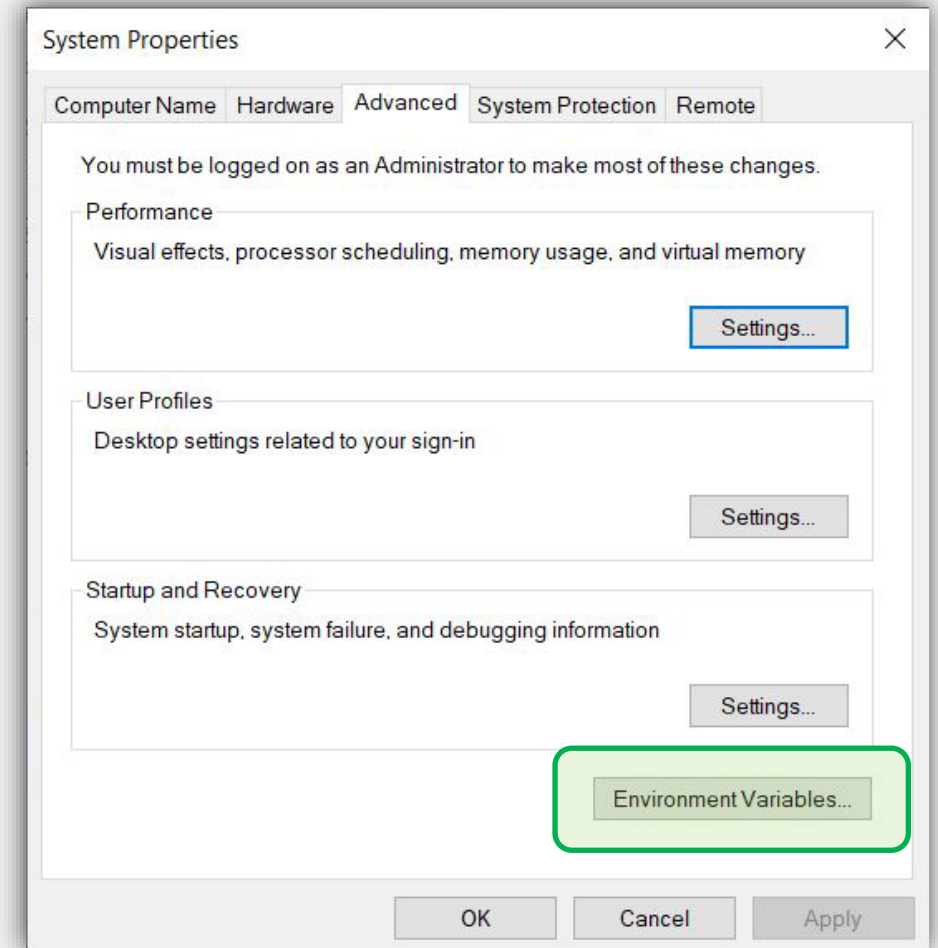
I. Go to your Environment Variables:

System Properties

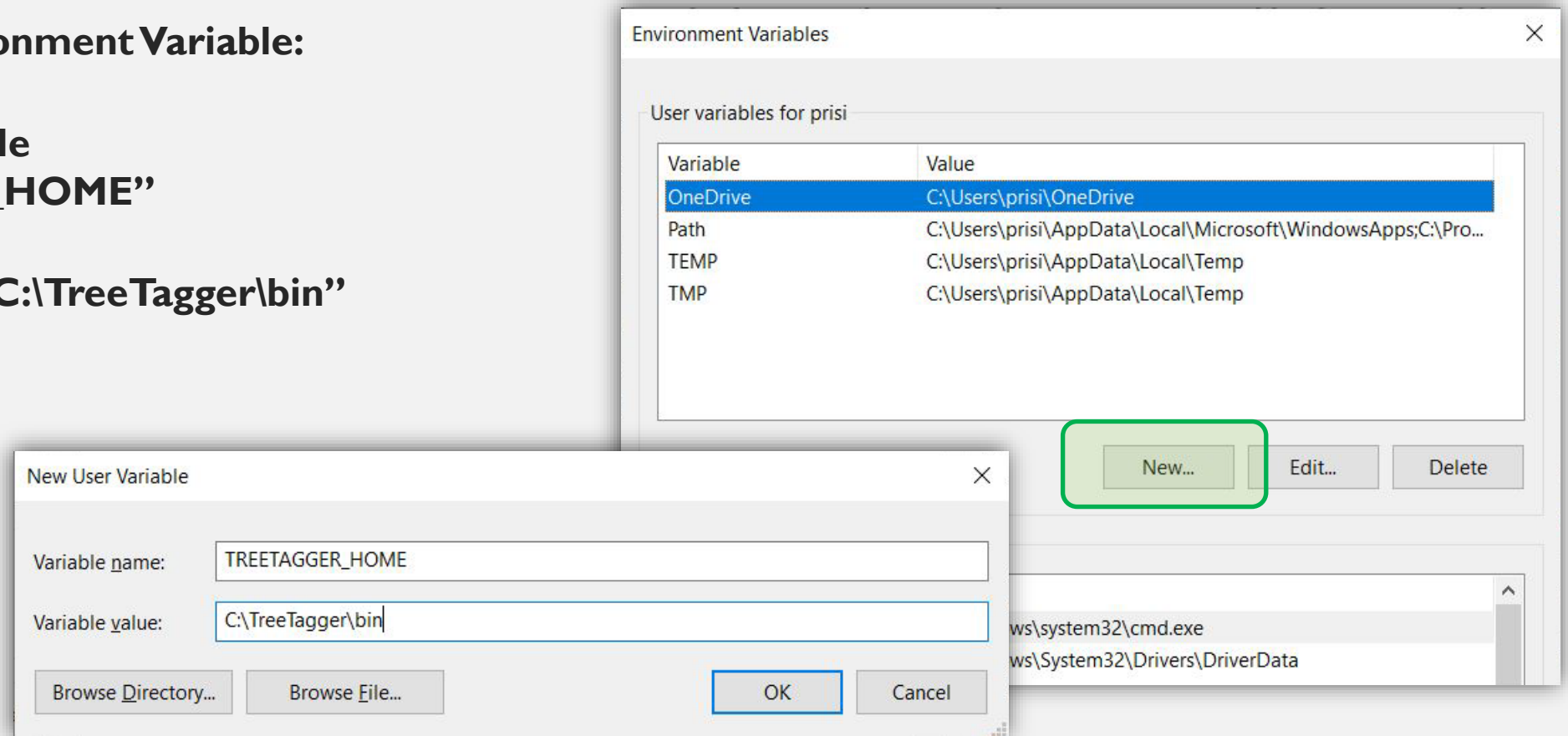
→ **Advanced**

→ **Environment Variables...**

(or just  + “environment variables”)



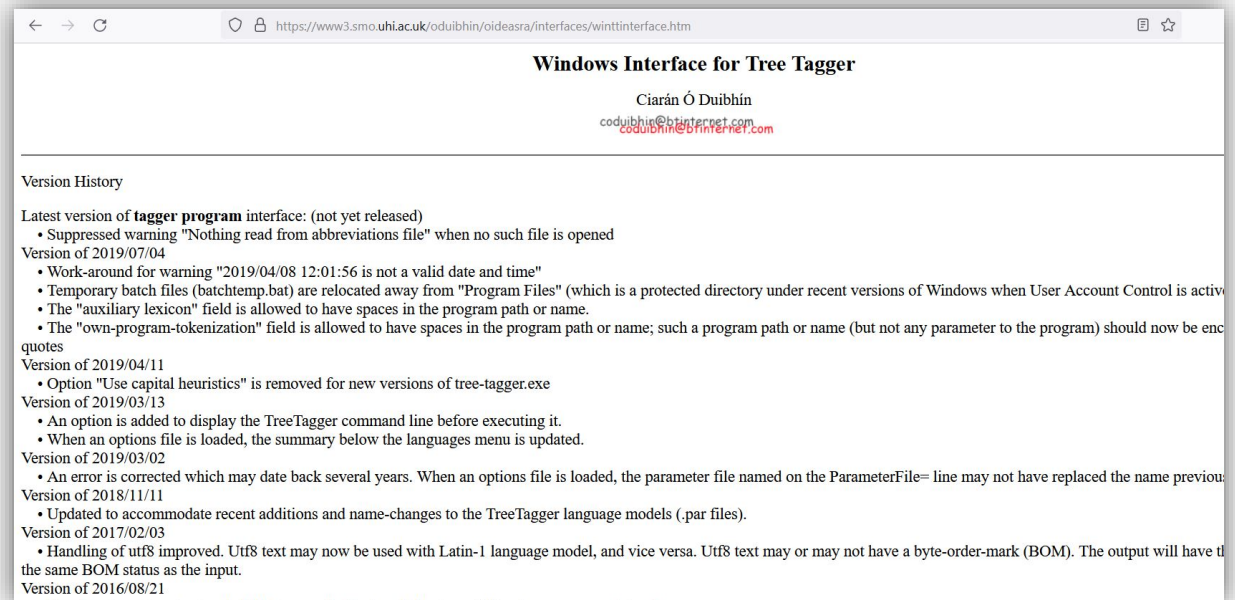
1. Add a new Environment Variable:
2. Name the variable “TREETAGGER_HOME”
3. Set its value to “C:\TreeTagger\bin”



1. TreeTagger is mostly used in the command prompt itself. Fortunately, there is a very useful and well-arranged interface for Windows (created by Ciarán Ó Duibhín).

You can download it from this website:

<http://www3.smo.uhi.ac.uk/oduibhin/oideasra/interfaces/winttinterface.htm>



TREETAGGER

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1. Now move the two application files “wintreetagger.exe” and “wintraintreetagger.exe” to the \bin subdirectory (alongside the two original application files called “tree-tagger.exe” and “train-tree-tagger.exe”).
2. Also, place the textfile “ttmodels.txt” in the \lib subdirectory (where you find the language model files).

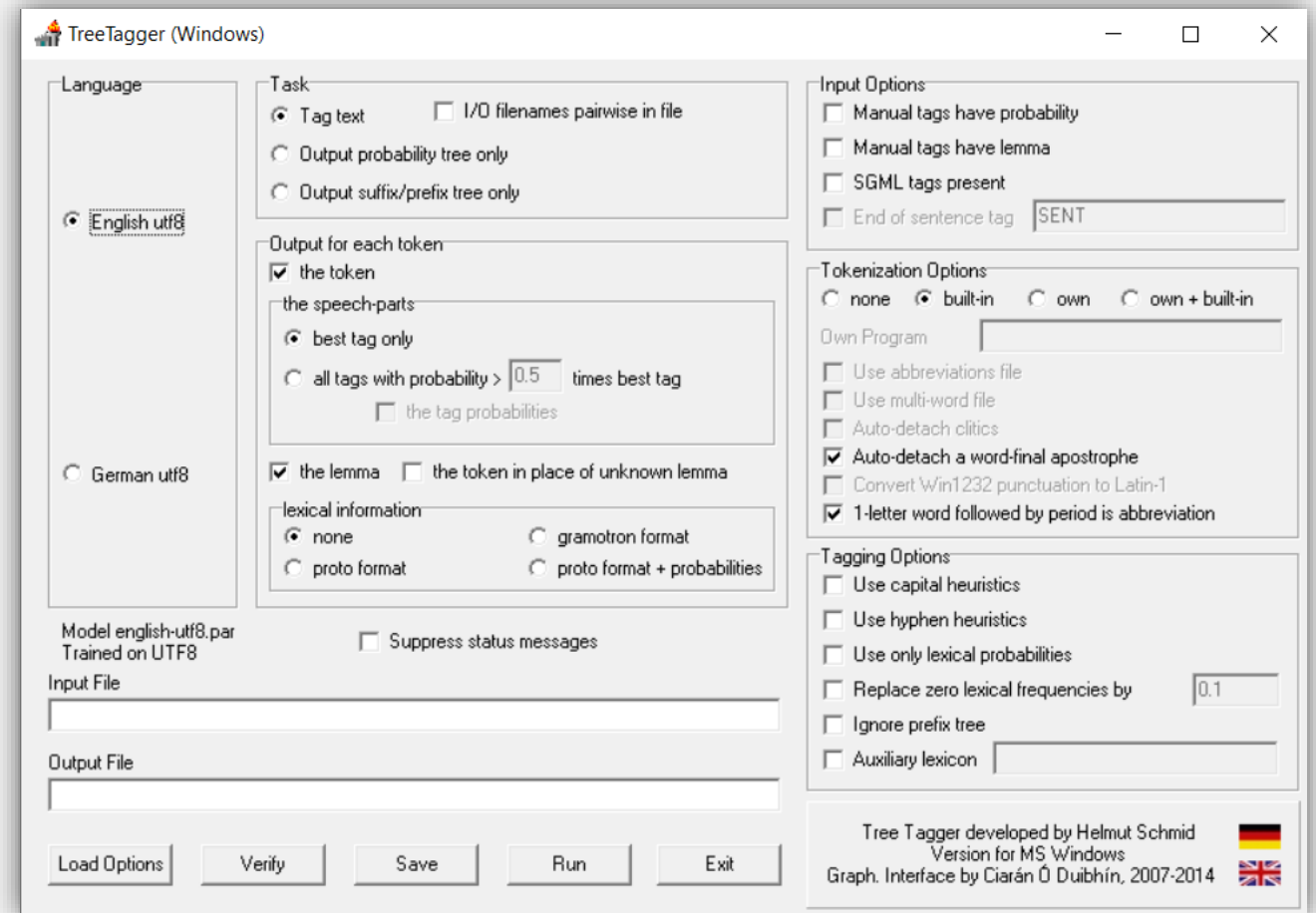
Name	Date modified	Type	Size
chunk-english	2/15/2022 10:59 AM	Windows Batch File	1 KB
chunk-french	2/15/2022 10:59 AM	Windows Batch File	1 KB
chunk-german	2/15/2022 10:59 AM	Windows Batch File	1 KB
tag-dutch	2/15/2022 10:59 AM	Windows Batch File	1 KB
tag-english	2/15/2022 10:59 AM	Windows Batch File	1 KB
tag-french	2/15/2022 10:59 AM	Windows Batch File	1 KB
tag-german	2/15/2022 10:59 AM	Windows Batch File	1 KB
tag-italian	2/15/2022 10:59 AM	Windows Batch File	1 KB
tag-russian	2/15/2022 10:59 AM	Windows Batch File	1 KB
tag-spanish	2/15/2022 10:59 AM	Windows Batch File	1 KB
train-tree-tagger	2/15/2022 10:59 AM	Application	3,078 KB
tree-tagger	2/15/2022 10:59 AM	Application	3,122 KB
tree-tagger-flush	2/15/2022 10:59 AM	Application	3,121 KB
wintreetagger	2/15/2022 11:46 AM	Application	1,188 KB
wintraintreetagger	2/15/2022 11:46 AM	Application	1,068 KB

Name	Date modified	Type	Size
dutch-abbreviations	2/15/2022 10:59 AM	File	1 KB
english.par	3/4/2019 2:16 PM	PAR File	14,004 KB
english-abbreviations	2/15/2022 10:59 AM	File	2 KB
english-bnc.par	10/15/2018 5:09 PM	PAR File	14,945 KB
french-abbreviations	2/15/2022 10:59 AM	File	1 KB
german.par	6/22/2020 11:11 AM	PAR File	36,797 KB
german-abbreviations	2/15/2022 10:59 AM	File	63 KB
italian-abbreviations	2/15/2022 10:59 AM	File	1 KB
spanish-abbreviations	2/15/2022 10:59 AM	File	1 KB
spanish-mwls	2/15/2022 10:59 AM	File	4 KB
ttmodels	2/15/2022 11:50 AM	Text Document	2 KB

TREETAGGER

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1. You can now launch the interface by opening “wintreetagger.exe”.



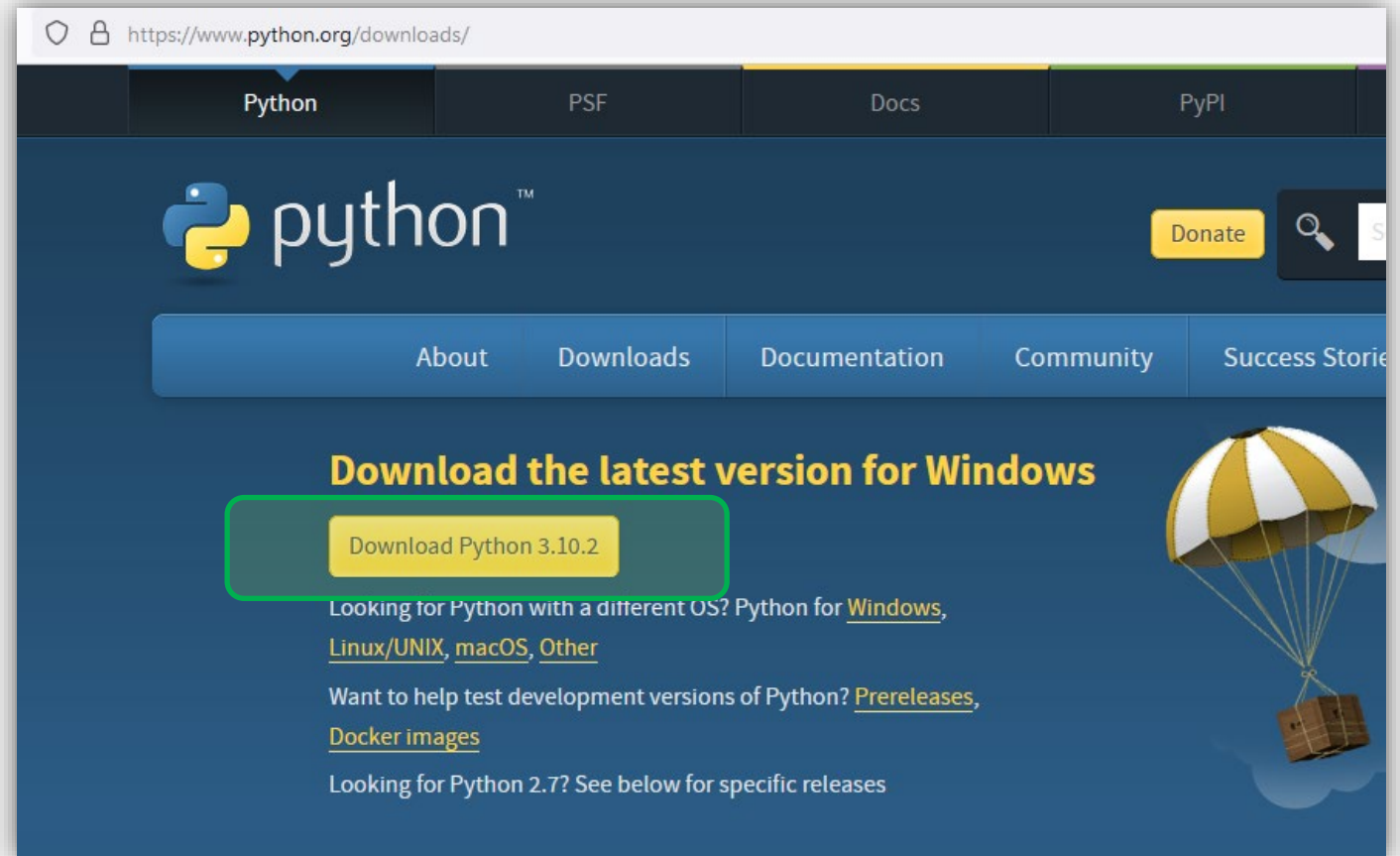
1. Textplot is a library within Python.

→ If Python is not yet installed on your computer, we need to download that one first:

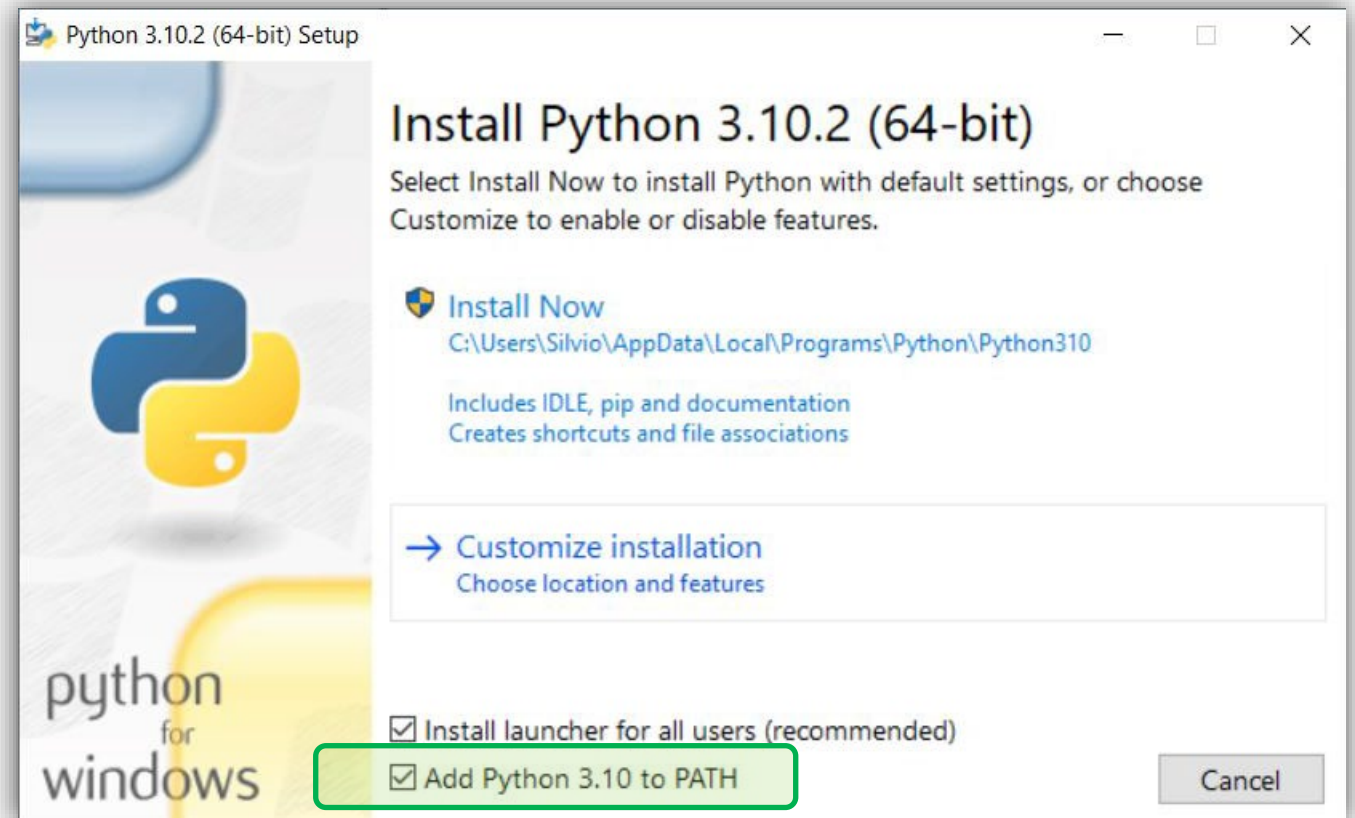
2. Please visit

<https://www.python.org/downloads/>

3. Download “Python 3.10.2”



1. Start installing Python
2. Tick the box
“Add Python 3.10 to PATH”



1. After having installed Python, you can install the Textplot library like a standard Python library (via the package installer “pip”).

2. To do this, open your Command Prompt and type the following:

“pip install textplot”

3. Textplot is being installed now.

If you prefer a manual installation, you can also get Textplot from GitHub:

<https://github.com/davidmclure/textplot>

```
C:\> Eingabeaufforderung - pip install textplot
Microsoft Windows [Version 10.0.19043.1526]
(c) Microsoft Corporation. Alle Rechte vorbehalten.

C:\Users\Silvio>pip install textplot
Collecting textplot
  Downloading textplot-0.1.1.tar.gz (7.3 kB)
Collecting scikit-learn
  Downloading scikit_learn-1.0.2-cp310-cp310-win_amd64.whl (7.2 MB)
  |████████████████████████████████████████| 7.2 MB 3.2 MB/s
Collecting numpy
  Downloading numpy-1.22.2-cp310-cp310-win_amd64.whl (14.7 MB)
  |████████████████████████████████████████| 14.7 MB 6.4 MB/s
Collecting scipy
  Downloading scipy-1.8.0-cp310-cp310-win_amd64.whl (37.0 MB)
  |████████████████████████████████████████| 37.0 MB 160 kB/s
Collecting matplotlib
  Downloading matplotlib-3.5.1-cp310-cp310-win_amd64.whl (7.2 MB)
  |████████████████████████████████████████| 7.2 MB ...
Collecting nltk
  Downloading nltk-3.7-py3-none-any.whl (1.5 MB)
  |████████████████████████████████████████| 1.5 MB ...
Collecting networkx
  Downloading networkx-2.6.3-py3-none-any.whl (1.9 MB)
  |████████████████████████████████████████| 1.9 MB 6.4 MB/s
Collecting clint
```

GEPHI

1. Please visit <https://gephi.org/>
2. Download «Gephi 0.9.2»
3. Install the program

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