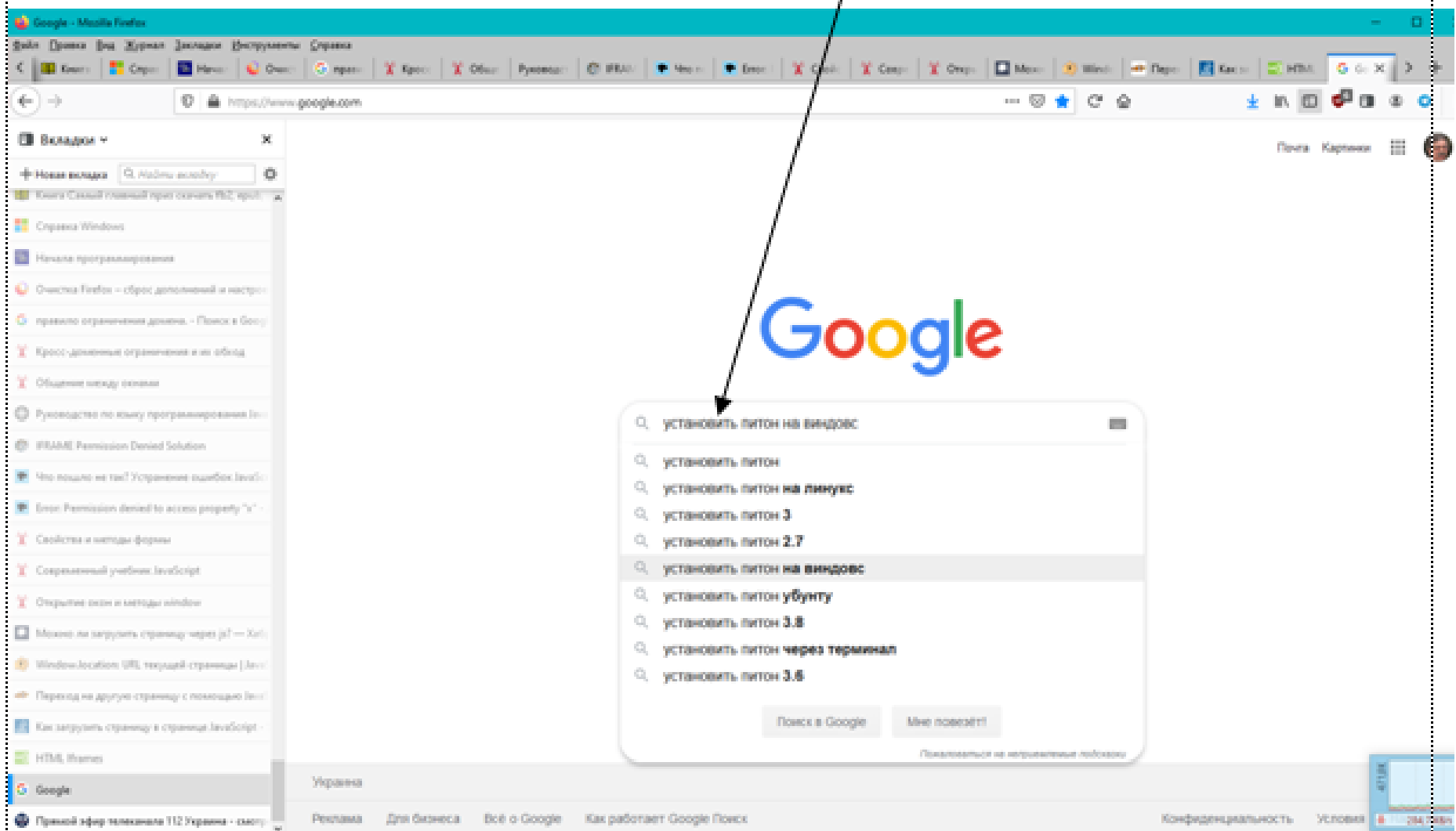


УСТАНОВИТЬ ПИТОН НА ВИНДОВС



Установка Python в ОС Windows — Основы Веб ...

Если у вас не установлен компилятор, пакет не будет установлен. Попробуем установить NumPy без компилятора. \$ pip install numpy ...

docs.microsoft.com > ... > Python ▾ [Перевести эту страницу](#)

Get started with using Python on Windows for beginners ...

19 июл. 2019 г. - Once you have Python installed, install pygame from the command line (or the terminal from within VS Code) by typing `python -m pip install -U ...`

www.python.org > downloads ▾ [Перевести эту страницу](#)

Download Python | Python.org

Looking for Python with a different OS? Python for Windows, Linux/UNIX, Mac OS X, Other. Want to help test development versions of Python? Prereleases ...

thecode.media > py-install ▾

Как установить Python на компьютер и начать на нём писать

В этой статье покажем, как установить Python под Windows и как с ним работать. Для MacOS всё почти то же самое, а если у вас Linux, то вы лучше нас ...

devpractice.ru > python-lesson-1-install ▾

Python. Урок 1. Установка - Devpractice

18 нояб. 2016 г. - Урок посвящен установке дистрибутива Python, Anaconda, JetBrains PyCharm на Windows и Linux.


Вместе с установить питон на виндовс часто ищут

www.python.org > downloads ▾ [Перевести эту страницу](#)

Download Python | Python.org

Looking for Python with a different OS? Python for Windows, Linux/UNIX, Mac OS X, Other. Want to help test development versions of Python? Prereleases ...

[Python](#)[PSF](#)[Docs](#)[PyPI](#)[Jobs](#)[Conferences](#)

 **python**[™]

[Donate](#)

[GO](#)

[About](#)[Downloads](#)[Documentation](#)[Community](#)[Success Stories](#)[News](#)[Events](#)


Download the latest version for Windows

Download Python 3.8.2

Looking for Python with a different OS? Python for [Windows](#),
[Linux/UNIX](#), [Mac OS X](#), [Other](#)

Want to help test development versions of Python? [Prereleases](#),
[Docker images](#)

Looking for Python 2.7? See below for specific releases



Looking for a specific release?

Python releases by version number:

| Release version | Release date | Click for more | |
|------------------------------|---------------|--------------------------|-------------------------------|
| Python 3.8.2 | Feb. 24, 2020 | Download | Release Notes |
| Python 3.8.1 | Dec. 18, 2019 | Download | Release Notes |

Открытие «python-3.8.2.exe»



Вы собираетесь открыть:



python-3.8.2.exe

являющийся: Binary File (25,3 МБ)

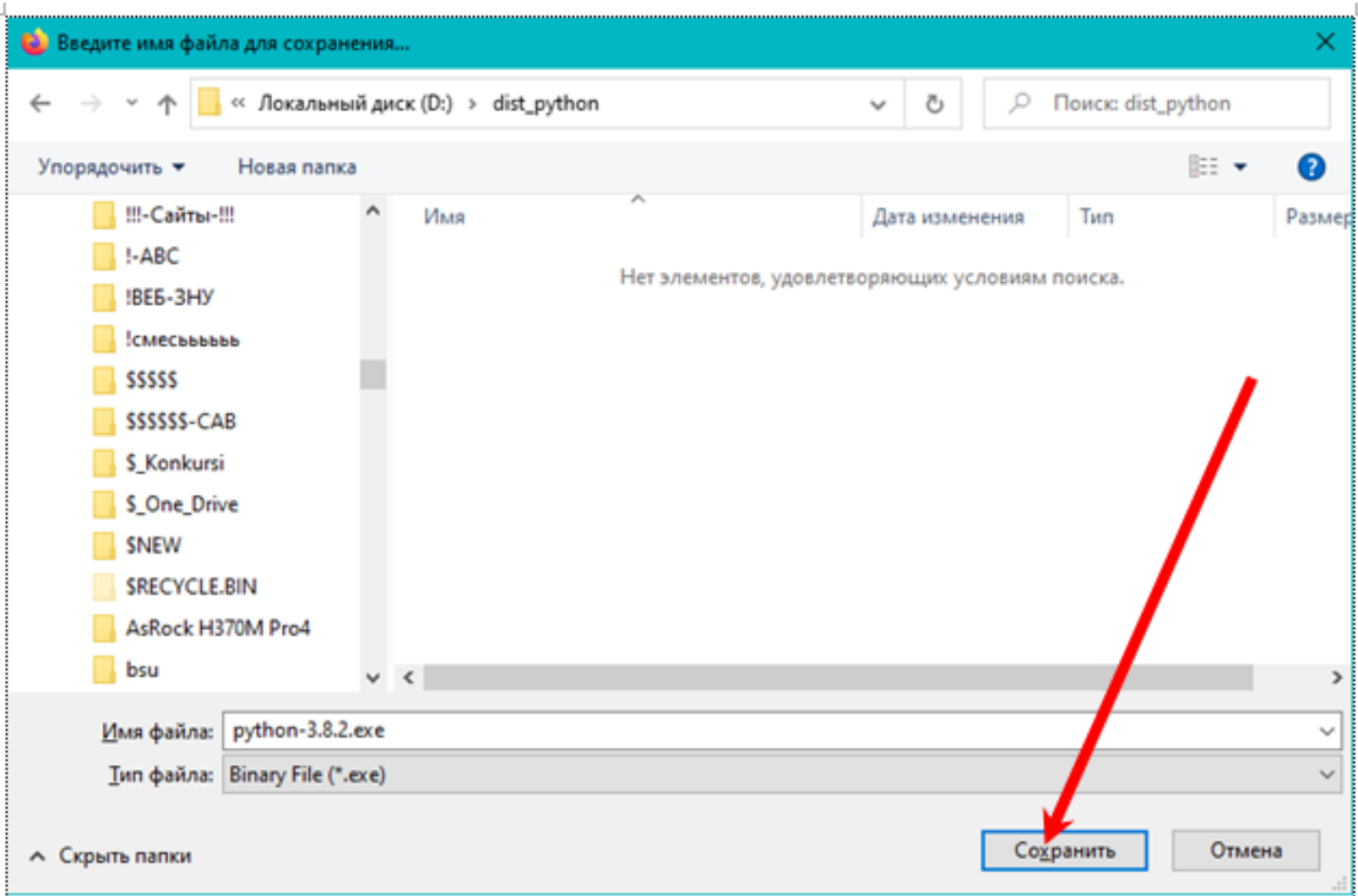
из <https://www.python.org>

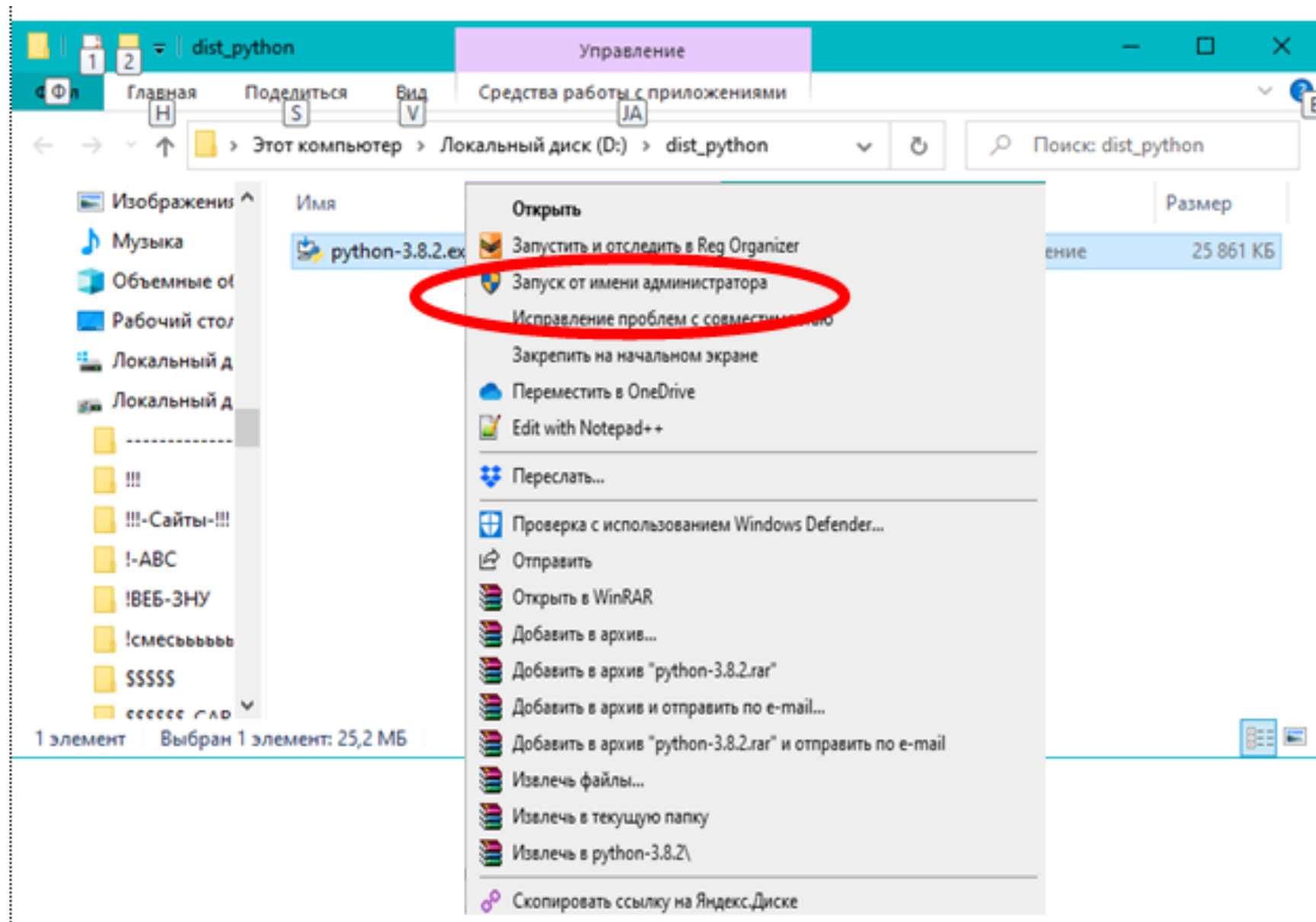
Вы хотите сохранить этот файл?

Сохранить файл

Отмена







Install Python 3.8.1 (64-bit)

Select **Install Now** to install Python with default settings, or choose **Customize** to enable or disable features.

→ **Install Now**

C:\Users\bsu\AppData\Local\Programs\Python\Python38

Includes IDLE, pip and documentation
Creates shortcuts and file associations

→ **Customize installation**

Choose location and features

python
for
windows

☒ Install launcher for all users (recommended)

☒ Add Python 3.8 to PATH

Cancel



python
for
windows

Optional Features

☒ Documentation

Installs the Python documentation file.

☒ pip

Installs pip, which can download and install other Python packages.

☒ tk/tk and IDLE

Installs tkinter and the IDLE development environment.

☒ Python test suite

Installs the standard library test suite.

☒ py launcher ☒ for all users (requires elevation)

Installs the global 'py' launcher to make it easier to start Python.

Back

Next

Cancel

Advanced Options

- ☒ Install for all users
- ☒ Associate files with Python (requires the py launcher)
- ☒ Create shortcuts for installed applications
- ☒ Add Python to environment variables
- ☒ Precompile standard library
- ☒ Download debugging symbols
- ☒ Download debug binaries (requires VS 2015 or later)

Customize install location

C:\Program Files\Python38

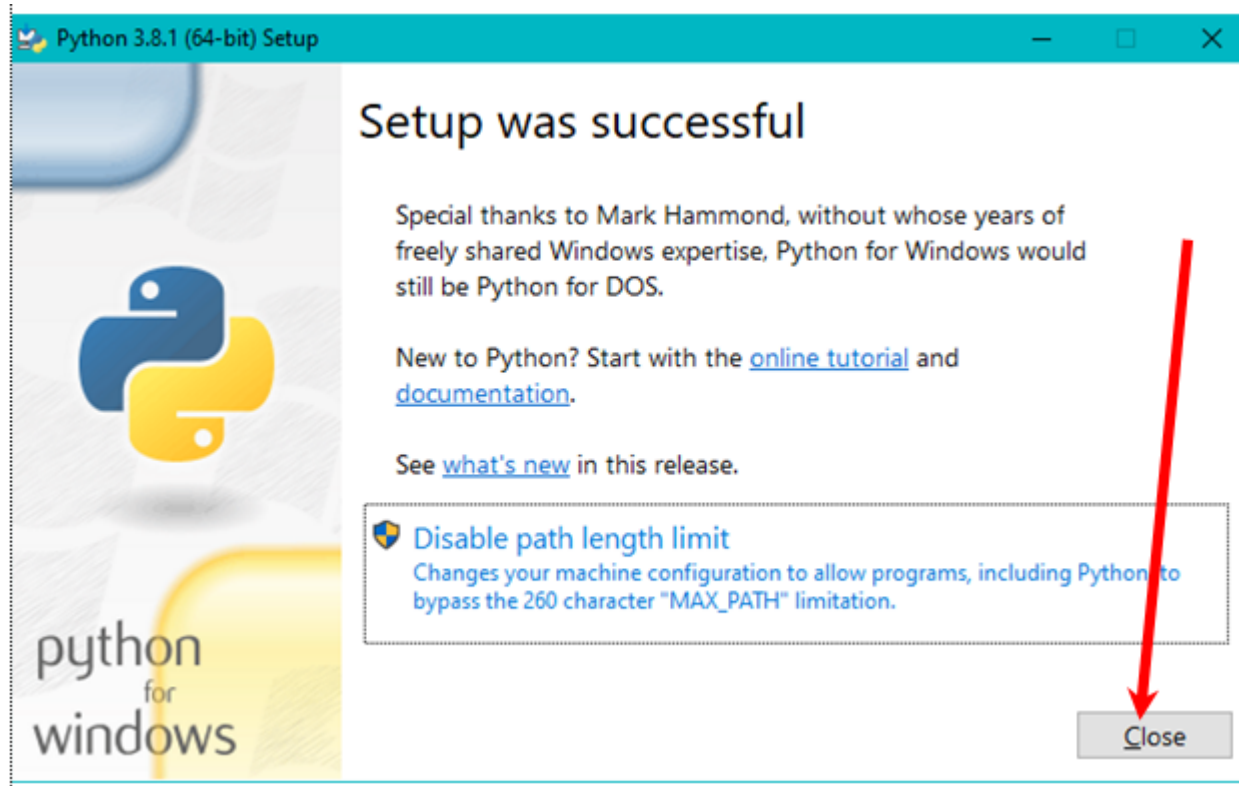
Browse

Back

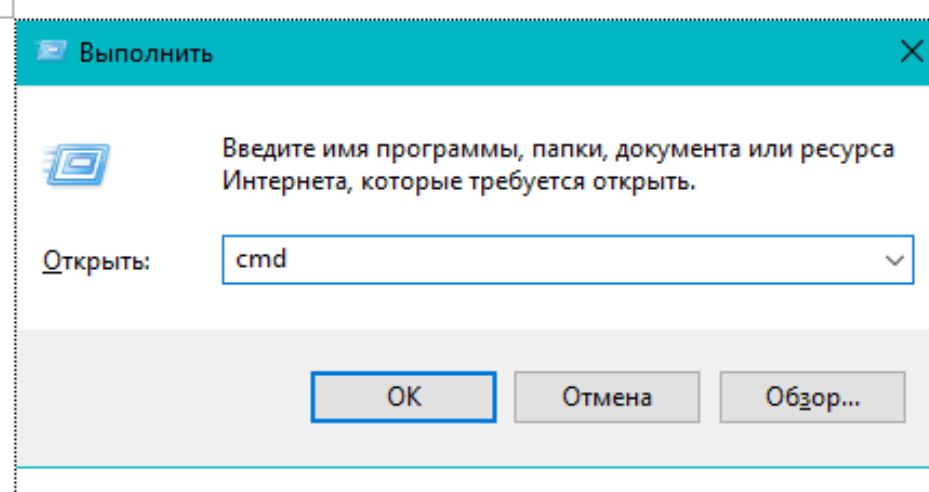
Install

Cancel

python
for
windows



WIN-R



C:\WINDOWS\system32\cmd.exe

Microsoft Windows [Version 10.0.18363.657]

(c) Корпорация Майкрософт (Microsoft Corporation), 2019. Все права защищены.

C:\Users\bsu>python

Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 23:11:46) [MSC v.1916 64 bit

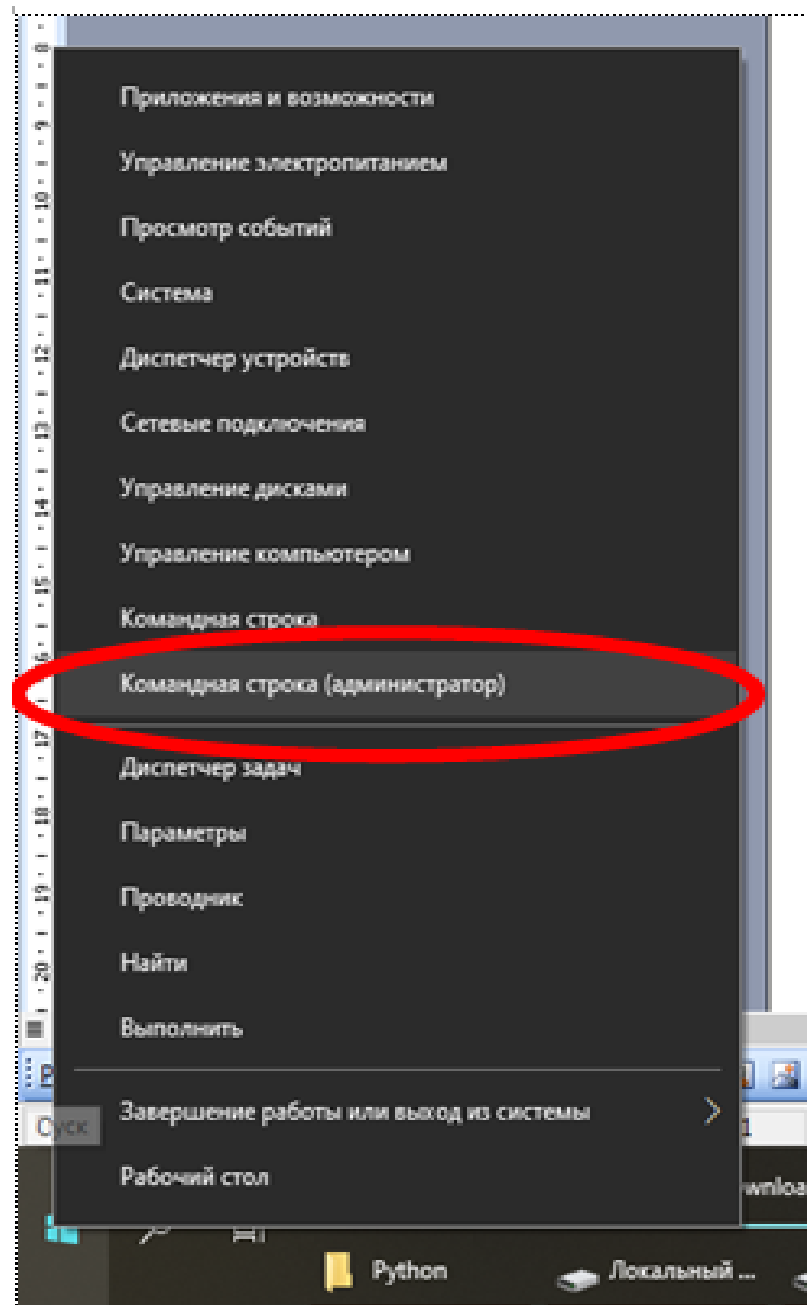
Type "help", "copyright", "credits" or "license" for more information.

>>> 2^1024

1026

>>> exit()

C:\Users\bsu>



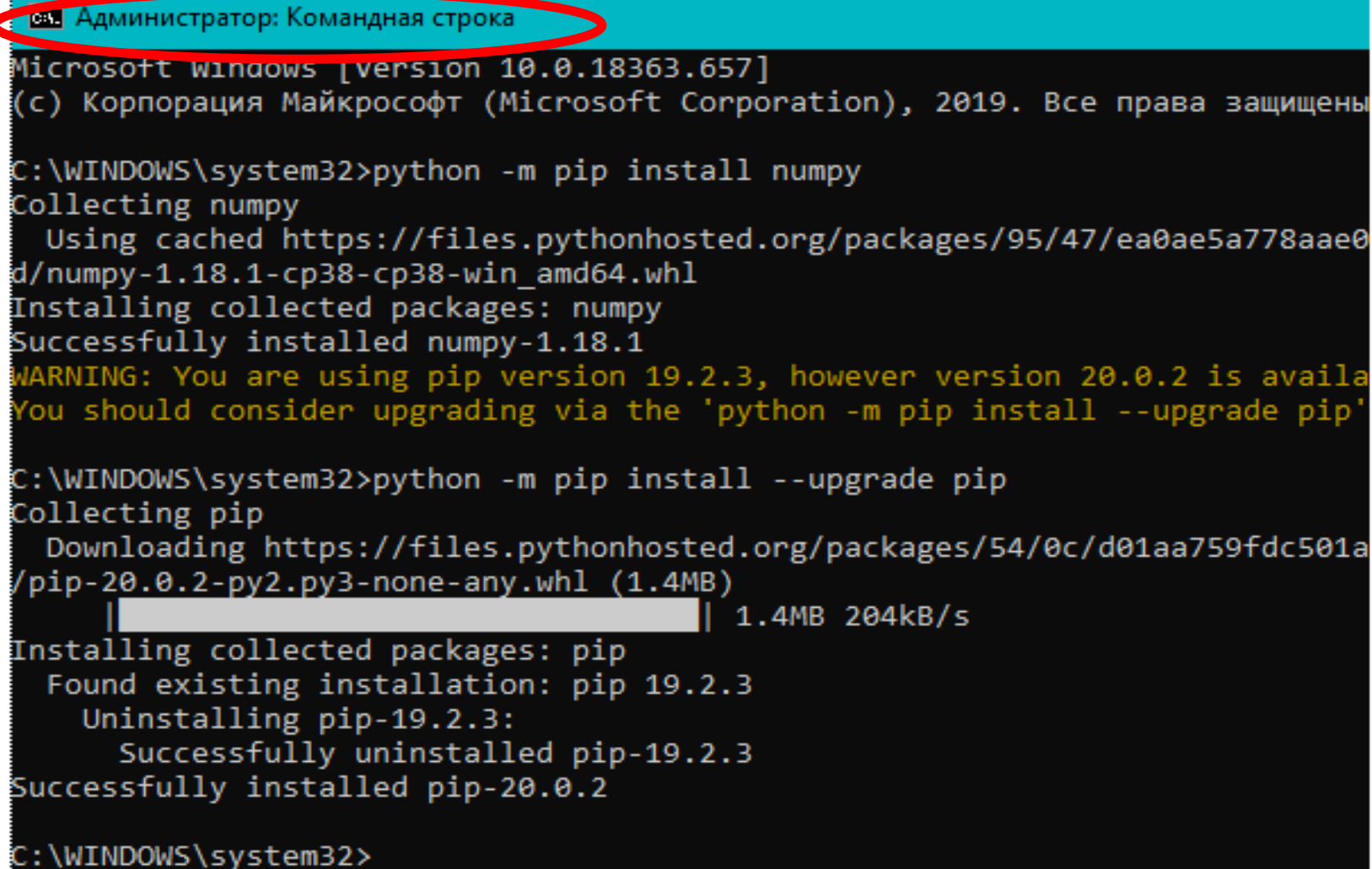
python -m pip install numpy

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.18363.657]
(c) Корпорация Майкрософт (Microsoft Corporation), 2019. Все права защищены.

C:\Users\bsu>python -m pip install numpy
Collecting numpy
  Downloading https://files.pythonhosted.org/packages/95/47/ea0ae5a778aae07ede486f3dc7cd4b788dc5/numpy-1.18.1-cp38-cp38-win_amd64.whl (12.8MB)
    | ████████████████████ | 12.8MB 726kB/s
Installing collected packages: numpy
ERROR: Could not install packages due to an EnvironmentError: [WinError 5] Отказано в доступе: 'n38\\Lib\\site-packages\\numpy'
Consider using the '--user' option or check the permissions.
```

Консоль не в режиме АДМИНИСТРАТОР

python -m pip install numpy



The screenshot shows a Windows command prompt window titled "Администратор: Командная строка". The prompt is at "C:\WINDOWS\system32>". The user enters "python -m pip install numpy". The output shows that numpy-1.18.1 is collected and installed successfully. A warning message indicates that the user is using pip version 19.2.3, but version 20.0.2 is available, and suggests upgrading with "python -m pip install --upgrade pip". The user then enters this command. The output shows that pip-20.0.2 is collected and installed successfully, replacing the previous version. A progress bar is shown for the download of pip-20.0.2, indicating 1.4MB at 204kB/s.

```
Администратор: Командная строка
Microsoft Windows [version 10.0.18363.657]
(c) Корпорация Майкрософт (Microsoft Corporation), 2019. Все права защищены

C:\WINDOWS\system32>python -m pip install numpy
Collecting numpy
  Using cached https://files.pythonhosted.org/packages/95/47/ea0ae5a778aae0
d/numpy-1.18.1-cp38-cp38-win_amd64.whl
Installing collected packages: numpy
Successfully installed numpy-1.18.1
WARNING: You are using pip version 19.2.3, however version 20.0.2 is availa
You should consider upgrading via the 'python -m pip install --upgrade pip'

C:\WINDOWS\system32>python -m pip install --upgrade pip
Collecting pip
  Downloading https://files.pythonhosted.org/packages/54/0c/d01aa759fdc501a
/pip-20.0.2-py2.py3-none-any.whl (1.4MB)
|████████████████████████████████████████| 1.4MB 204kB/s
Installing collected packages: pip
  Found existing installation: pip 19.2.3
  Uninstalling pip-19.2.3:
    Successfully uninstalled pip-19.2.3
  Successfully installed pip-20.0.2

C:\WINDOWS\system32>
```

python -m pip install --upgrade pip

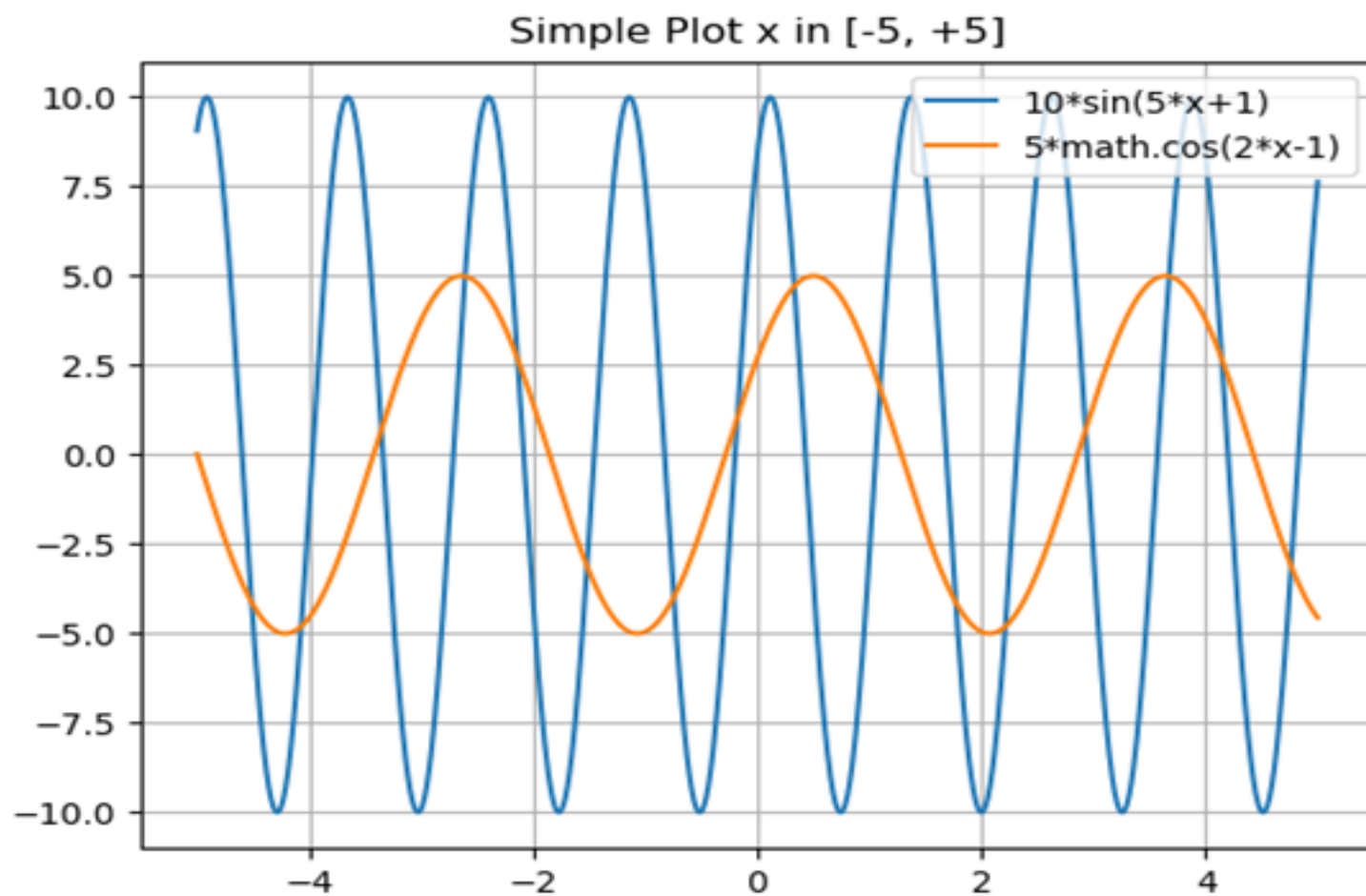
python -m pip install **matplotlib**

```
C:\WINDOWS\system32>python -m pip install matplotlib
Collecting matplotlib
  Downloading matplotlib-3.2.0-cp38-cp38-win_amd64.whl (9.2 MB)
    |████████████████████| 9.2 MB 467 kB/s
Collecting kiwisolver>=1.0.1
  Downloading kiwisolver-1.1.0-cp38-none-win_amd64.whl (57 kB)
    |██████████████████| 57 kB 526 kB/s
Requirement already satisfied: numpy>=1.11 in c:\program files\python38\lib\site-packages (from matplotlib)
Collecting cyclor>=0.10
  Downloading cyclor-0.10.0-py2.py3-none-any.whl (6.5 kB)
Collecting python-dateutil>=2.1
  Downloading python_dateutil-2.8.1-py2.py3-none-any.whl (227 kB)
    |██████████████████| 227 kB 251 kB/s
Collecting pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1
  Downloading pyparsing-2.4.6-py2.py3-none-any.whl (67 kB)
    |██████████████████| 67 kB 345 kB/s
Requirement already satisfied: setuptools in c:\program files\python38\lib\site-packages (from kiwisolver) (41.2.0)
Collecting six
  Downloading six-1.14.0-py2.py3-none-any.whl (10 kB)
Installing collected packages: kiwisolver, six, cyclor, python-dateutil, pyparsing, matplotlib
Successfully installed cyclor-0.10.0 kiwisolver-1.1.0 matplotlib-3.2.0 pyparsing-2.4.6 python-dateutil-2.8.1 six-1.14.0

C:\WINDOWS\system32>
```

```
import numpy as np  
import matplotlib.pyplot as plt  
import math  
xmin=-5  
xmax=5  
x = np.linspace(xmin, xmax, 1000)  
y1=10*np.sin(5*x+1)  
plt.plot(x, y1,label='10*sin(5*x+1)')  
y2=5*np.cos(2*x-1)  
plt.plot(x, y2,label='5*math.cos(2*x-1)')  
plt.grid(True)  
plt.title("Simple Plot x in [-5, +5]")  
plt.legend()  
plt.show()
```


Figure 1



x=4.47984 y=-5.3333