

Steps to install pip in Windows

على الويندوز خطوات تثبيت

The screenshot shows the pip documentation page for Windows installation. The URL `pip.pypa.io/en/stable/installation/` is highlighted in the address bar. The page title is "pip documentation v26.0.1". The "Installation" tab is selected. The "get-pip.py" section is highlighted, and a blue arrow points to the download link `https://bootstrap.pypa.io/get-pip.py`. A blue number "2" is next to the arrow.

Linux MacOS Windows

```
$ python -m ensurepip --upgrade
```

More details about how `ensurepip` works and how it can be used, is available in the standard library documentation.

get-pip.py

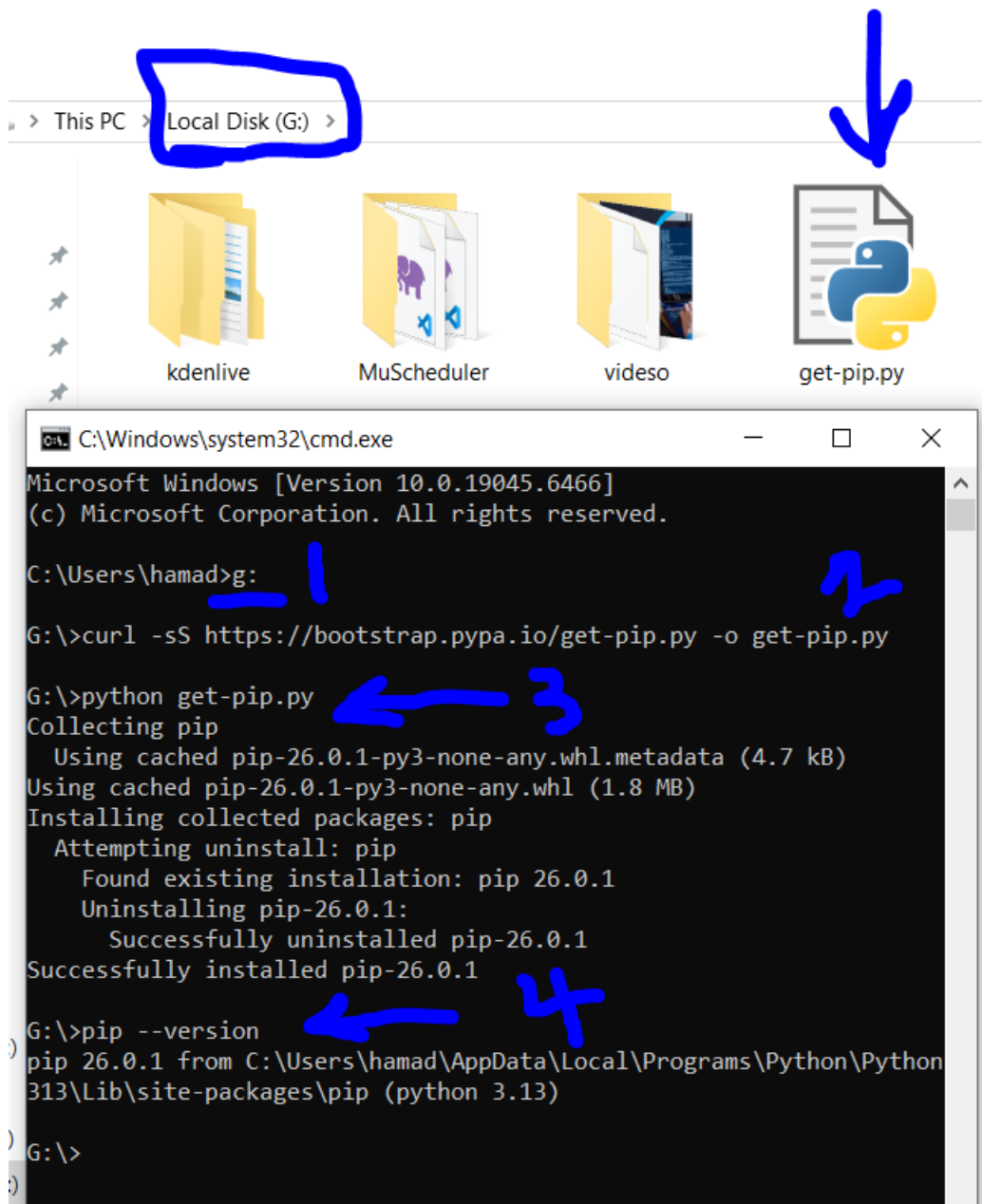
This is a Python script that uses some bootstrapping logic to install pip.

- Download the script, from <https://bootstrap.pypa.io/get-pip.py>.
- Open a terminal/command prompt, `cd` to the folder containing the `get-pip.py` file and run:

The screenshot shows a Windows file explorer window titled "Save As". The address bar shows "This PC > Local Disk (G:)". The "Local Disk (G:)" is selected in the left sidebar. The file name "get-pip.py" is entered in the "File name" field, and "Python File (*.py)" is selected in the "Save as type" dropdown. The "Save" button is highlighted. In the background, a terminal window shows the execution of the script.

```
#!/usr/bin/env python
#
# Hi There!
#
# You may be wondering what
# even be worried that we're
# paranoid!). This is a bas
# an entire copy of pip (ve
#
# Pip is a thing that insta
# might want to install, es
# script. Pip has a lot of
# packages, various edge ca
# "tribal knowledge" that h
# we basically include an e
# because the alternatives
# doesn't do things correct
# down into a single file.
#
# If you're wondering how t
# `scripts/generate.py` in
#
import sys

this_python = sys.version_i
min_version = (3, 9)
if this_python < min_versio
    message_parts = [
        "This script does n
        "The minimum suppor
        "Please use https:/
    ]
    print("ERROR: " + " ".j
    sys.exit(1)
```



Steps to create and handle virtual environment on Windows

خطوات إنشاء بيئة افتراضية والتعامل معها على الويندوز

```
Microsoft Windows [Version 10.0.19042.2965]
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C:\Users\pc>python -m venv --help
usage: venv [-h] [--system-site-packages] [--symlinks | --copies] [--clear] [--upgrade] [--without-pip]
            [--prompt PROMPT] [--upgrade-deps] [--without-scm-ignore-files]
            ENV_DIR [ENV_DIR ...]

Creates virtual Python environments in one or more target directories.

positional arguments:
  ENV_DIR                A directory to create the environment in.

options:
  -h, --help            show this help message and exit
  --system-site-packages
                        Give the virtual environment access to the system site-packages dir.
  --symlinks            Try to use symlinks rather than copies, when symlinks are not the default for the platform.
  --copies             Try to use copies rather than symlinks, even when symlinks are the default for the platform.
  --clear              Delete the contents of the environment directory if it already exists, before environment
                        creation.
  --upgrade            Upgrade the environment directory to use this version of Python, assuming Python has been
                        upgraded in-place.
  --without-pip        Skips installing or upgrading pip in the virtual environment (pip is bootstrapped by default)
  --prompt PROMPT     Provides an alternative prompt prefix for this environment.
  --upgrade-deps       Upgrade core dependencies (pip) to the latest version in PyPI
  --without-scm-ignore-files
                        Skips adding SCM ignore files to the environment directory (Git is supported by default).

Once an environment has been created, you may wish to activate it, e.g. by sourcing an activate script in its bin
directory.
```

C:\WINDOWS\system32\cmd.exe

Microsoft Windows [Version 10.0.19042.2965]
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C:\Users\pc>cd..

C:\Users>cd..

C:\>D:

D:\>python -m venv myenv

D:\>myenv\Scripts\activate

(myenv) D:\>pip list

Package	Version
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pip	24.3.1
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(myenv) D:\>deactivate

D:\>myenv\Scripts\activate

(myenv) D:\>pip install ascii-train

Collecting ascii-train

Downloading ascii_train-0.0.6-py2.py3-none-any.whl.metadata (3.7 kB)

Downloading ascii_train-0.0.6-py2.py3-none-any.whl (3.5 kB)

Installing collected packages: ascii-train

Successfully installed ascii-train-0.0.6

[notice] A new release of pip is available: 24.3.1 -> 25.0.1

[notice] To update, run: python.exe -m pip install --upgrade pip

(myenv) D:\>deactivate

D:\>_

How to run code with specific virtual environment

كيفية تشغيل الاكواد باستخدام بيئة افتراضية معينة

The screenshot shows a VS Code editor with a file named `test.py` containing the following code:

```
1 import ascii_train
2 print(ascii_train.train("Midocean University"))
3
```

The terminal output shows the command `PS F:\PyLecs> & C:/Users/hamad/AppData/Local/Programs/Python/Python313/python.exe f:/PyLecs/test.py` and the resulting error:

```
Traceback (most recent call last):
  File "f:\PyLecs\test.py", line 1, in <module>
    import ascii_train
ModuleNotFoundError: No module named 'ascii_train'
```

The error message `ModuleNotFoundError: No module named 'ascii_train'` is highlighted with a blue box.

