

TP1 DEMARRAGE AVEC PYTHON

1. Installation de Python

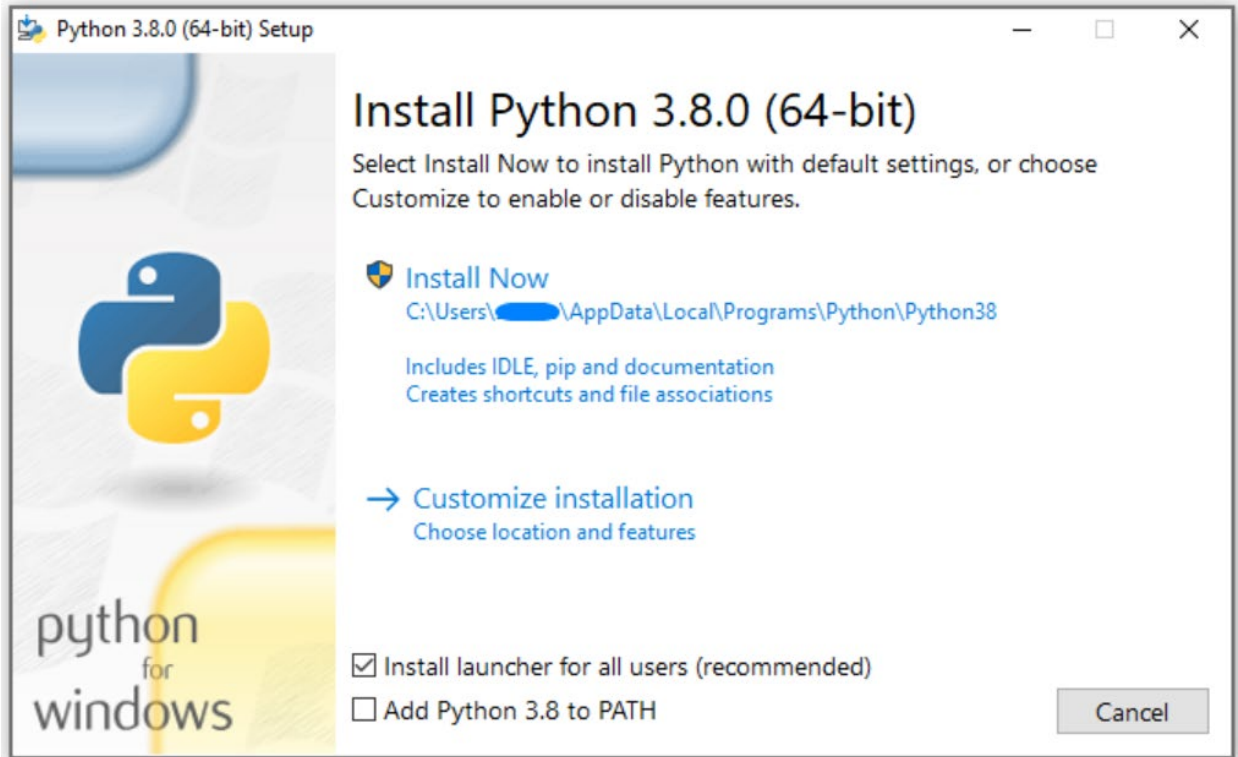
On doit aller sur le lien

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

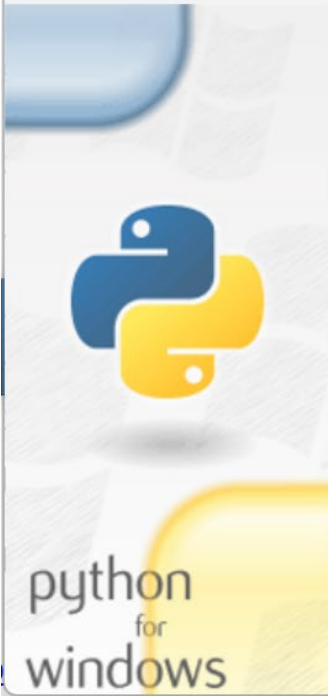


L'installateur Python 3.12 au téléchargement est disponible pour les versions 32-bit et 64-bit de l'interpréteur. L'installateur web est léger, et téléchargera automatiquement les composants nécessaires.

Après avoir lancé l'installateur, deux options s'affichent :



Sélectionner « Personnaliser l'installation » (Customize installation) vous permettra de sélectionner les fonctionnalités à installer, le chemin d'installation et d'autres options ou des options post-installation.



Advanced Options

- Install Python 3.13 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 2017 or later)
- Download free-threaded binaries (experimental)

Customize install location

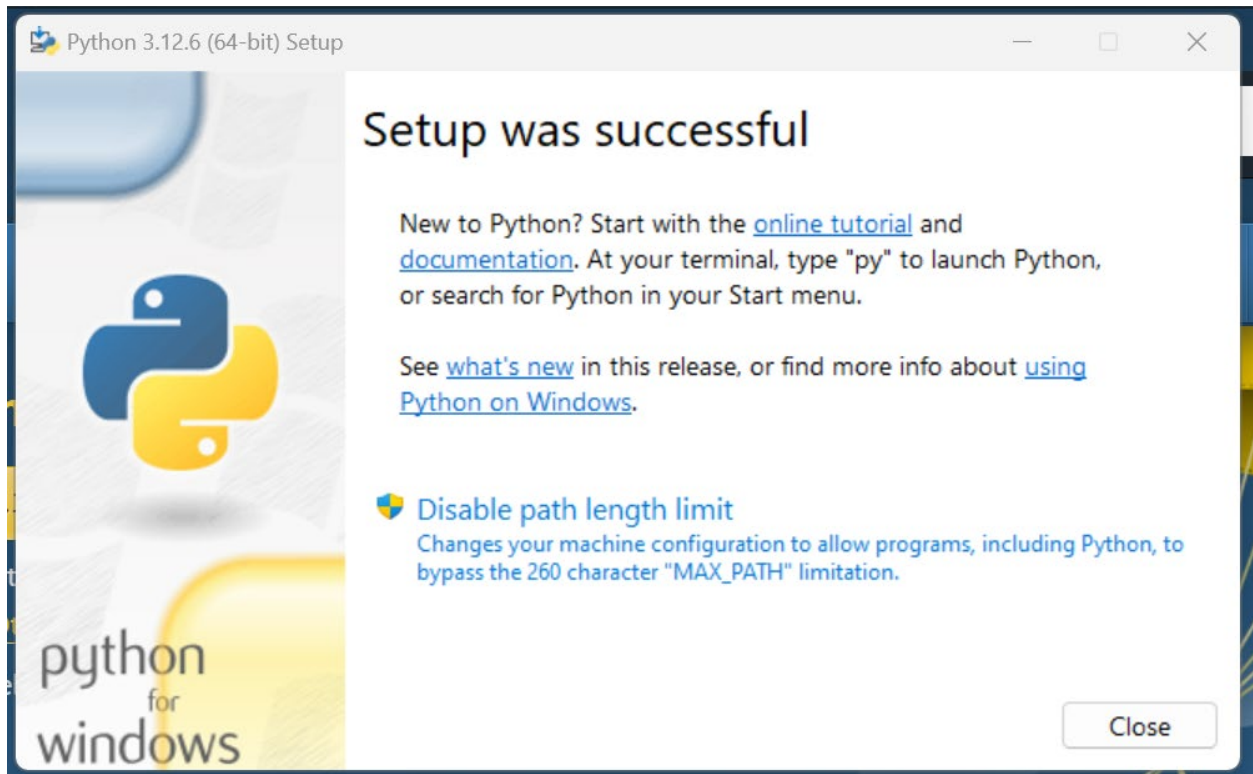
D:\python

Browse

Back

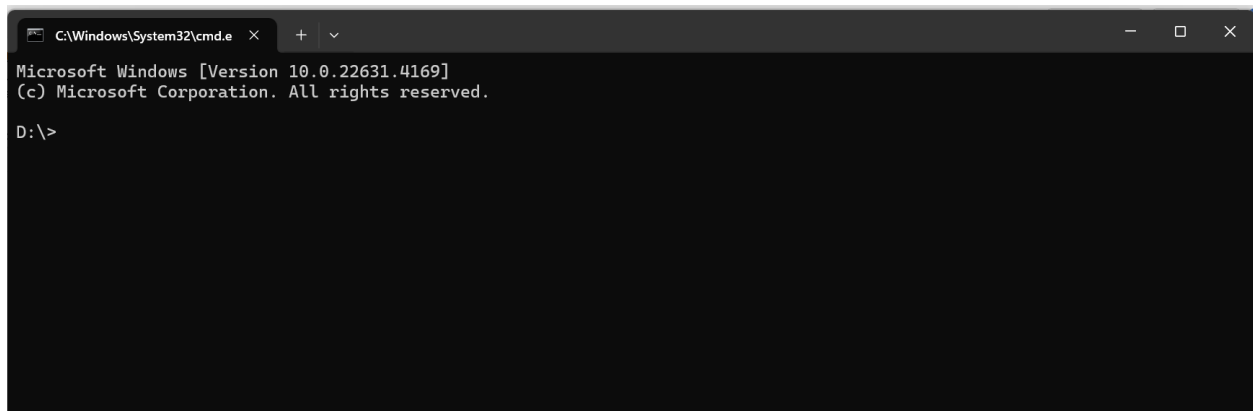
Install

Cancel



On écrit cmd dans l'espace blanc

Une fenêtre noire apparaît



Pour vérifier si Python a été installé On écrit `python -v`

On constate que python est bien installé

```
C:\Windows\System32\cmd.e x + v
# code object from 'D:\python\Lib\__pycache__\struct.cpython-313.pyc'
import 'struct' # <class '_frozen_importlib.BuiltinImporter'>
import 'struct' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3086C890>
# D:\python\Lib\_pyrepl\_pycache\_windows_console.cpython-313.pyc matches D:\python\Lib\_pyrepl\windows_console.py
# code object from 'D:\python\Lib\__pycache__\__pycache__\windows_console.cpython-313.pyc'
import 'msvcrt' # <class '_frozen_importlib.BuiltinImporter'>
# D:\python\Lib\ctypes\__pycache__\__init__.cpython-313.pyc matches D:\python\Lib\ctypes\__init__.py
# code object from 'D:\python\Lib\ctypes\__pycache__\__init__.cpython-313.pyc'
# extension module '_ctypes' loaded from 'D:\python\DLLs\_ctypes.pyd'
# extension module '_ctypes' executed from 'D:\python\DLLs\_ctypes.pyd'
import '_ctypes' # <_frozen_importlib_external.ExtensionFileLoader object at 0x0000026A3082A0D0>
# D:\python\Lib\ctypes\_pycache\_endian.cpython-313.pyc matches D:\python\Lib\ctypes\_endian.py
# code object from 'D:\python\Lib\ctypes\__pycache__\endian.cpython-313.pyc'
import 'ctypes._endian' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3086D790>
import 'ctypes' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3086D0D0>
# D:\python\Lib\ctypes\_pycache\_wintypes.cpython-313.pyc matches D:\python\Lib\ctypes\wintypes.py
# code object from 'D:\python\Lib\ctypes\__pycache__\wintypes.cpython-313.pyc'
import 'ctypes.wintypes' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3086D730>
import '_pyrepl.windows_console' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3086C650>
# destroy _pyrepl.unix_console
import '_pyrepl.readline' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3079E3F0>
# D:\python\Lib\_pyrepl\_pycache\_unix_console.cpython-313.pyc matches D:\python\Lib\_pyrepl\unix_console.py
# code object from 'D:\python\Lib\_pyrepl\__pycache__\unix_console.cpython-313.pyc'
# destroy _pyrepl.unix_console
import '_pyrepl.simple_interact' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3079D430>
# D:\python\Lib\_pyrepl\_pycache\_keymap.cpython-313.pyc matches D:\python\Lib\_pyrepl\keymap.py
# code object from 'D:\python\Lib\_pyrepl\__pycache__\keymap.cpython-313.pyc'
import '_pyrepl.keymap' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3079DD90>
import '_pyrepl.main' # <_frozen_importlib_external.SourceFileLoader object at 0x0000026A3079D9D0>
>>>
```

Le triple chevron >>> est l'invite de commande (prompt en anglais) de l'interpréteur Python. Ici, Python attend une commande que vous devez saisir au clavier. Tapez par exemple l'instruction :

```
print("Hello world Python!")
```

puis, validez cette commande en appuyant sur la touche Entrée.

Python a exécuté la commande directement et a affiché le texte Hello world Python!. Il attend ensuite une nouvelle instruction en affichant l'invite de l'interpréteur Python (>>>).

2. Editeur de texte de Python

Bien Python IDE et éditeurs de code : Windows, Linux et Mac Téléchargement (gratuit)

- # 1) PyCharm
- #2) Dreamweaver
- #3) Spyder
- #4) IDLE
- #5) Sublime Text 3
- #6) Visual Studio Code
- #7) Atom
- #8) Jupyter
- # 9) Pydev
- #10) Thonny

On va déuarrer par utiliser l'éditeur de texte txt

Donc on va demarrer par créer un fichier texte TP1.txt
Contenant l'instruction print
Puis on change l'extention en TP1.py
On vas dans la fenetre invite de commande et on écrit

py TP1.py

```
C:\Windows\System32\cmd.e x + v
Microsoft Windows [Version 10.0.22631.4169]
(c) Microsoft Corporation. All rights reserved.

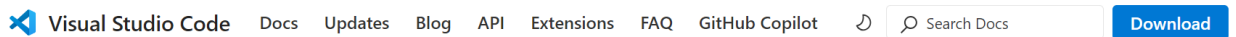
D:\>py TP1.py
```

puis, validez cette commande en appuyant sur la touche *Entrée*.
Python a exécuté la commande directement et a affiché le texte Hello world!. Il attend ensuite une nouvelle instruction en affichant l'invite de l'interpréteur Python (>>>).

3. Editeur Visual Studio Code

<https://code.visualstudio.com/download>

JAVA, JAVASCRIPT; html, CSS, flutter



[Version 1.94](#) is now available! Read about the new features and fixes from September.

Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.

The download page features three main columns for operating systems: Windows, Linux, and Mac. Each column has a logo at the top and a blue button with a download icon. Below the buttons are links for different architectures and installation methods.

Platform	Architecture/Method	Link
Windows	User Installer	x64, Arm64
	System Installer	x64, Arm64
	.zip	
	CLI	x64, Arm64
Linux	.deb	x64, Arm32, Arm64
	.rpm	x64, Arm32, Arm64
	tar.gz	x64, Arm32, Arm64
	System Installer	x64, Arm64
	CLI	x64, Arm32, Arm64
	CLI	x64, Arm32, Arm64
Mac	.zip	Intel chip, Apple silicon, Universal
	CLI	Intel chip, Apple silicon
	CLI	Intel chip, Apple silicon

On tape sur windows

On obtient

Visual Studio Code Docs Updates Blog API Extensions FAQ GitHub Copilot Search Docs Download

Version 1.94 is now available! Read about the new features and fixes from September.

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Visual Studio Code documentation

Get familiar with Visual Studio Code and learn how to code faster with AI.

Getting started

- Set up Visual Studio Code
- Getting started
- Code faster with AI

|| Votre écran est partagé par le biais de l'application meet.google.com. Arrêter le partage Masquer started with GitHub Copilot, your AI

On le télécharge et on l'excute

VSCodeUserSetup-x64-1.94.2.exe	2024-10-11 14:37	Application	98,041 KB
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On accepte

Setup - Microsoft Visual Studio Code (User)

License Agreement

Please read the following important information before continuing.

Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

This license applies to the Visual Studio Code product. Source Code for Visual Studio Code is available at <https://github.com/Microsoft/vscode> under the MIT license agreement at <https://github.com/microsoft/vscode/blob/main/LICENSE.txt>. Additional license information can be found in our FAQ at <https://code.visualstudio.com/docs/supporting/faq>.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT VISUAL STUDIO CODE

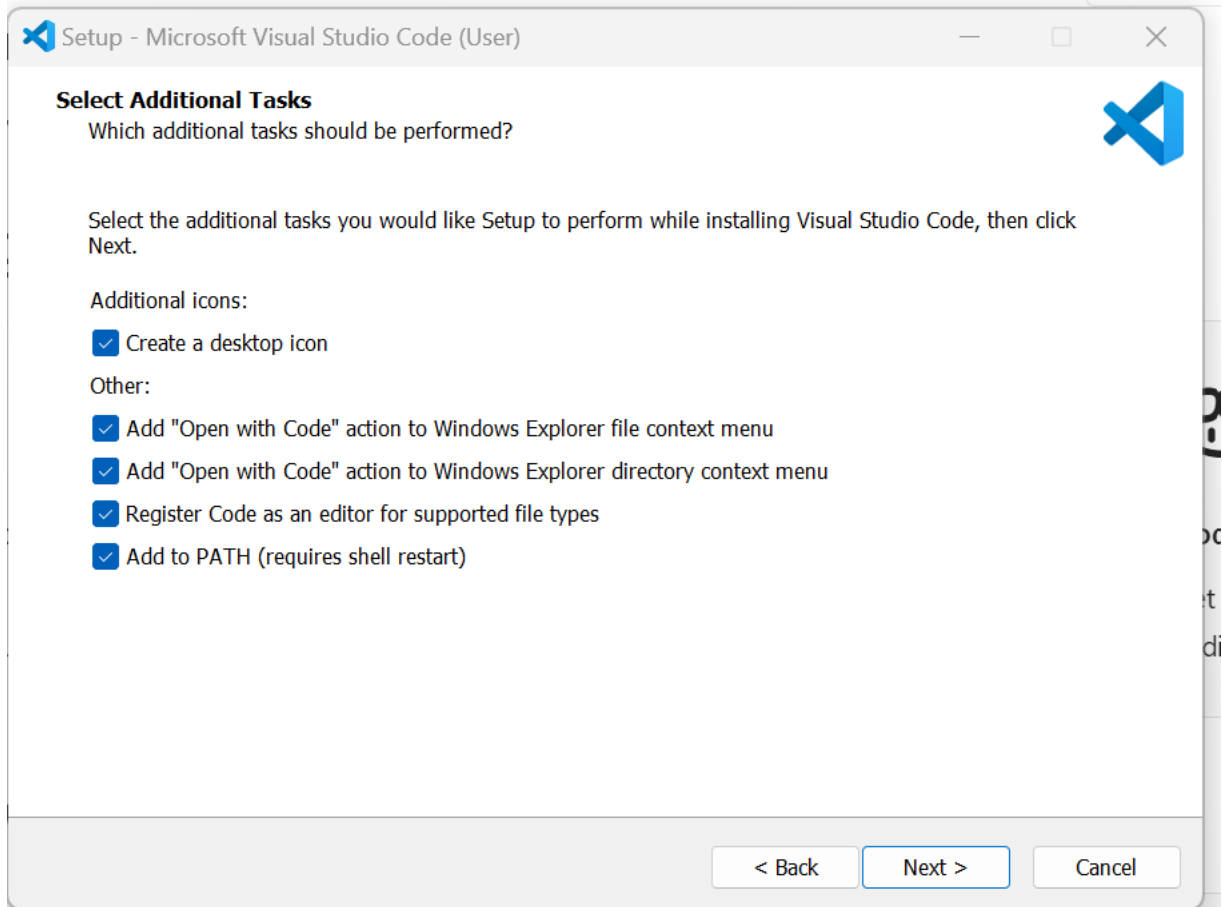
These license terms are an agreement between you and Microsoft Corporation (or

I accept the agreement

I do not accept the agreement

Next > Cancel

On doit tout cocher



Phython donne des couleurs aux instructions

Python debugger pour la compilation

Python extension pack pour les librairies

Python environment manager pour gérer l'exécution sans CMD



Select Additional Tasks

Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing Visual Studio Code, then click Next.

Additional icons:

- Create a desktop icon

Other:

- Add "Open with Code" action to Windows Explorer file context menu
- Add "Open with Code" action to Windows Explorer directory context menu
- Register Code as an editor for supported file types
- Add to PATH (requires shell restart)

< Back

Next >

Cancel

File Edit Selection View ... Search

EXTENSIONS

Search Extensions in Mark...


INSTALLED 0

POPULAR

- Python** 139.9M ★ 4
Python language support wi...
Microsoft Install
- Pylance** 112.1M ★ 3
A performant, feature-rich I...
Microsoft Install
- Jupyter** 83.3M ★ 2.5
Jupyter notebook support, i...
Microsoft Install
- C/C++** 71.9M ★ 3.5
C/C++ IntelliSense, debuggi...
Microsoft Install
- Jupyter Key...** 64.7M ★ 4
Jupyter keymaps for notebo...
Microsoft Install
- Jupyter Note...** 63.5M ★ 3
Renderers for Jupyter Noteb...
Microsoft Install

RECOMMENDED 1

- Notepad++ ...** 1.8M ★ 4.5
Popular Notepad++ keybin...
Microsoft Install



Show All Commands **Ctrl** + **Shift** + **P**

Open File **Ctrl** + **O**

Open Folder **Ctrl** + **K** **Ctrl** + **O**

Open Recent **Ctrl** + **R**