

Python installation

Nick Levashov, 2021

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```
# For loop on numbers
>>> numbers = [1, 2, 3, 4, 5, 6]
>>> product = 1
>>> for number in numbers:
...     product = product * number
>>> print('The product is', product)
```

All releases

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Python versions

Active Python Releases

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Python version	Maintenance status	First released	End of support
3.10	bugfix	2021-10-04	2026-10
3.9	bugfix	2020-10-05	2025-10
3.8	security	2019-10-14	2024-10
3.7	security	2018-06-27	2023-06-27
3.6	security	2016-12-23	2021-12-23
2.7	end-of-life	2010-07-03	2020-01-01

Python versions

<https://docs.python.org/3/whatsnew/index.html>

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What's New In Python 3.10

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What's New in Python

The “What's New in Python” series of essays takes tours through the most important changes between major Python versions. They are a “must read” for anyone wishing to stay up-to-date after a new release.

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Check installation

1. Open terminal / command prompt

Check installation

1. Open terminal / command prompt
2. Type python / py

```
(base) nlevashov@MacBook-Pro-Nick msai % python
Python 3.7.6 (default, Jan  8 2020, 13:42:34)
[Clang 4.0.1 (tags/RELEASE_401/final)] :: Anaconda, Inc. on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

Check installation

1. Open terminal / command prompt
2. Type python (python3, python3.10) / py

```
(base) nlevashov@MacBook-Pro-Nick msai % python
Python 3.7.6 (default, Jan  8 2020, 13:42:34)
[Clang 4.0.1 (tags/RELEASE_401/final)] :: Anaconda, Inc. on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>>
(base) nlevashov@MacBook-Pro-Nick msai % python3.10
Python 3.10.0 (v3.10.0:b494f5935c, Oct  4 2021, 14:59:20) [Clang 12.0.5 (cl
Type "help", "copyright", "credits" or "license" for more information.
>>> █
```


Check installation

1. Open terminal / command prompt
2. Type python (python3, python3.10) / py
3. Check if python shell working

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```
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Python 3.10.0 (v3.10.0:b494f5935c, Oct  4 2021, 14:59:20) [Cl
Type "help", "copyright", "credits" or "license" for more inf
[>>> print('Hello world!')
Hello world!
>>> █
```

Check installation

1. Open terminal / command prompt
2. Type python (python3, python3.10) / py
3. Check if python shell working
4. Create a file with .py extension

Check installation

1. Open terminal / command prompt
2. Type python (python3, python3.10) / py
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4. Create a file with .py extension
5. Fill it with some code

Check installation

1. Open terminal / command prompt
2. Type python (python3, python3.10) / py
3. Check if python shell working
4. Create a file with .py extension
5. Fill it with some code
6. Run your code by passing file path to python

```
python3.10 filename.py
```

Check installation

1. Open terminal / command prompt
2. Type python (python3, python3.10) / py
3. Check if python shell working
4. Create a file with .py extension
5. Fill it with some code
6. Run your code by passing file path to python

```
python3.10 /whole/path/to/filename.py
```

where i am?

pwd (Unix)

cd (Windows)

list current directory

ls (Unix)

dir (Windows)

go to specified folder

cd foldername

<https://docs.python.org/3/faq/windows.html>

google: run python online

google: run python online

- <https://pythontutor.com>

google: run python online

- <https://pythontutor.com>
- <https://replit.com>
- ...

