



```
# Python 3: List comprehensions
>>> fruits = ['Banana', 'Apple', 'Lime']
>>> loud_fruits = [fruit.upper() for fruit in fruits]
>>> print(loud_fruits)
['BANANA', 'APPLE', 'LIME']

# List and the enumerate function
>>> list(enumerate(fruits))
[(0, 'Banana'), (1, 'Apple'), (2, 'Lime')]
```



Compound Data Types

Lists (known as arrays in other languages) are one of the compound data types that Python understands. Lists can be indexed, sliced and manipulated with other built-in functions. [More about lists in Python 3](#)


Python is a programming language that lets you work quickly and integrate systems more effectively. [>>> Learn More](#)

Python Release Python 3.7.0 | Pyt


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Python 3.7.0


Release Date: June 27, 2018


Note: The release you are looking at is **Python 3.7.0**, the initial **feature release** for the legacy **3.7** series which is now in the **security fix** phase of its life cycle. See the [downloads page](#) for currently supported versions of Python and for the most recent source-only **security fix** release for 3.7. The final **bugfix release** with binary installers for 3.7 was [3.7.9](#).


Among the major new features in Python 3.7 are:

- [PEP 539](#), new C API for thread-local storage
- [PEP 545](#), Python documentation translations
- New documentation translations: [Japanese](#), [French](#), and [Korean](#).
- [PEP 552](#), Deterministic pyc files
- [PEP 553](#), Built-in breakpoint()
- [PEP 557](#), Data Classes
- [PEP 560](#), Core support for typing module and generic types

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 Polluted air



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Files

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		41b6595deb4147a1ed517a7d9a580271	22745726	SIG
XZ compressed source tarball	Source release		eb8c2a6b1447d50813c02714af4681f3	16922100	SIG
macOS 64-bit/32-bit installer	macOS	for Mac OS X 10.6 and later	ca3eb84092d0ff6d02e42f63a734338e	34274481	SIG
macOS 64-bit installer	macOS	for OS X 10.9 and later	ae0717a02efea3b0eb34aad680dc498	27651276	SIG
Windows help file	Windows		46562af86c2049dd0cc7680348180dca	8547689	SIG
Windows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64	cb8b4f0d979a36258f73ed541def10a5	6946082	SIG
Windows x86-64 executable installer	Windows	for AMD64/EM64T/x64	531c3fc821ce0a4107b6d2c6a129be3e	26262280	SIG
Windows x86-64 web-based installer	Windows	for AMD64/EM64T/x64	3cfdaf4c8d3b0475aaec12ba402d04d2	1327160	SIG
Windows x86 embeddable zip file	Windows		ed9a1c028c1e99f5323b9c20723d7d6f	6395982	SIG
Windows x86 executable installer	Windows		ebb6444c284c1447e902e87381afeff0	25506832	SIG
Windows x86 web-based installer	Windows		779c4085464eb3ee5b1a4fffd0eabca4	1298280	SIG

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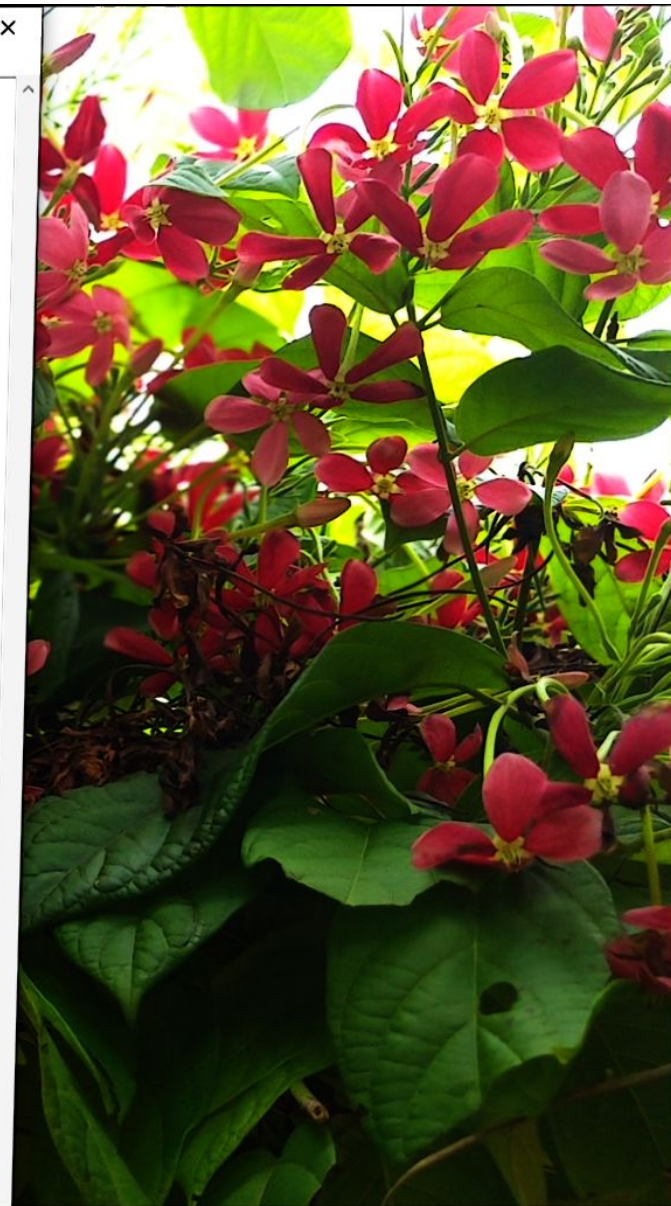
Python 3.7.4 Shell

File Edit Shell Debug Options Window Help

Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32

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

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```
Python 3.7.4 Shell
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(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> print("hello world")
hello world
>>>
```

Browser window showing a YouTube video player. The video player is partially visible, showing a person in a dark jacket. Below the video player, there is text: "IoT Platform using python code:" and "tall wiotp-sdk". The browser's address bar and search bar are visible at the top.

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Python 3.7 (64-bit)

Python 3.7.4 (tags/v3.7.4:09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> print("hello world")
hello world
>>>

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Develop The Python Script

Develop A Web Application Using Node-RED Service.

Ideation Phase

Installation.

Window... Watch later Share

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Install the required python libraries:

- Install Watson IoT Python SDK to connect to IBM Watson IoT Platform using python code:
give the following command in command prompt: pip install wiotsdk

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Command Prompt - python
Microsoft Windows [Version 10.0.19043.2130]
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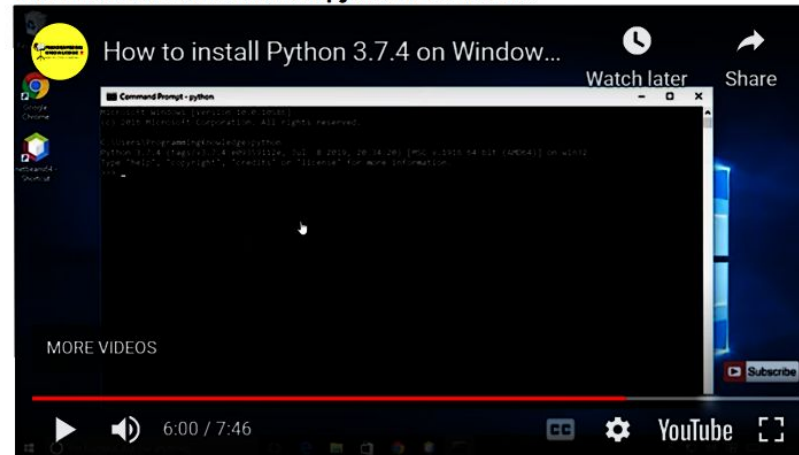
C:\Users\HP>python
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916
64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

- IBM Cloud Services
- Develop The Python Script
- Develop A Web Application Using Node-RED Service.
- Ideation Phase

Software

Install the Python IDE.

Watch the reference video of python installation.



Install the required python libraries:

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give the following command in command prompt: `pip install wiotp-sdk`

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Command Prompt - python

Microsoft Windows [Version 10.0.19043.2130]
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C:\Users\HP>python
Python 3.7.4 (tags/v3.7.4:009359112e, Jul 8 2019, 20:34:20) [MSC v.1916
64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> print("hello world")
hello world
>>> quit
Use quit() or Ctrl-Z plus Return to exit
>>> quit()

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Develop The Python Script

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Ideation Phase

Software

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How to install Python 3.7.4 on Window...

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Command Prompt

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C:\Users\HP>python
Python 3.7.4 (tags/v3.7.4:009359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
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Install the required python libraries:

- Install Watson IoT Python SDK to connect to IBM Watson IoT Platform using python code:

give the following command in command prompt: `pip install wiotp-sdk`

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