PREREQUISITES – SOFTWARE

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

- PEP 562, Customization of access to module attributes

- PEP 563, Postponed evaluation of annotations

- PEP 564, Time functions with nanosecond resolution

- PEP 565, Improved DeprecationWarning handling

- PEP 567, Context Variables

- Avoiding the use of ASCII as a default text encoding (PEP 538, legacy C locale coercion and PEP 540, forced UTF-8 runtime mode)

- The insertion-order preservation nature of dict objects is now an official part of the Python language spec.Notable performance improvements in many areas.

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```
# For loop on a list
>>> numbers = [2, 4, 6, 8]
>>> product = 1
>>> for number in numbers:
...     product = product * number
...
>>> print('The product is:', product)
The product is: 384
```

All the Flow You'd Expect

Python knows the usual control flow statements that other languages speak — if, for, while and range — with some of its own twists, of course. More control flow tools in Python 3

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Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
```

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Functions Defined

The core of extensible programming is defining functions. Python allows mandatory and optional arguments, keyword arguments, and even arbitrary argument lists. More about defining functions in Python 3

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