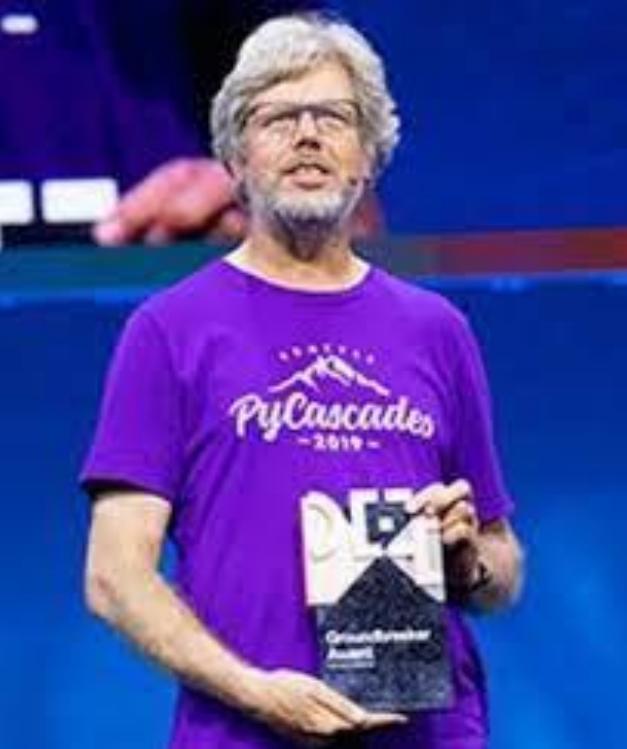


LET'S CODE TOGETHER!



python<sup>TM</sup>

Established since February 20, 1991



## GUIDO VAN ROSSUM

Distinguished Engineer in the Developer Division at Microsoft

(since November 2020)

Creator of the Python Programming Language

# Python is used for:

```
31     def __init__(self, path=None, file=None, fingerprints=None, logdups=True, debug=False, logger=logging.getLogger("fp")):
32         self.file = None
33         self.fingerprints = set()
34         self.logdups = True
35         self.debug = debug
36         self.logger = logging.getLogger("fp")
37         if path:
38             self.file = open(os.path.join(path, "fingerprint.txt"), "a+")
39             self.file.seek(0)
40             self.fingerprints.update(self.file.readlines())
41
42     @classmethod
43     def from_settings(cls, settings):
44         debug = settings.getbool("FINGERPRINT_DEBUG")
45         return cls(job_dir(settings), debug)
46
47     def request_seen(self, request):
48         fp = self.request_fingerprint(request)
49         if fp in self.fingerprints:
50             return True
51         self.fingerprints.add(fp)
52         if self.file:
53             self.file.write(fp + os.linesep)
54
55     def request_fingerprint(self, request):
56         return request_fingerprint(request)
```



```
    @cachedProps
    def getCardHolder(self):
        return self._getCardHolder()

    @cachedProps
    def getAvatar(self):
        return self._getAvatar()

    @cachedProps
    def getAvatarLink(self):
        return self._getAvatarLink()

    @cachedProps
    def getAvatarLink2(self):
        return self._getAvatarLink2()

    @cachedProps
    def getAvatarLink3(self):
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    @cachedProps
    def getAvatarLink4(self):
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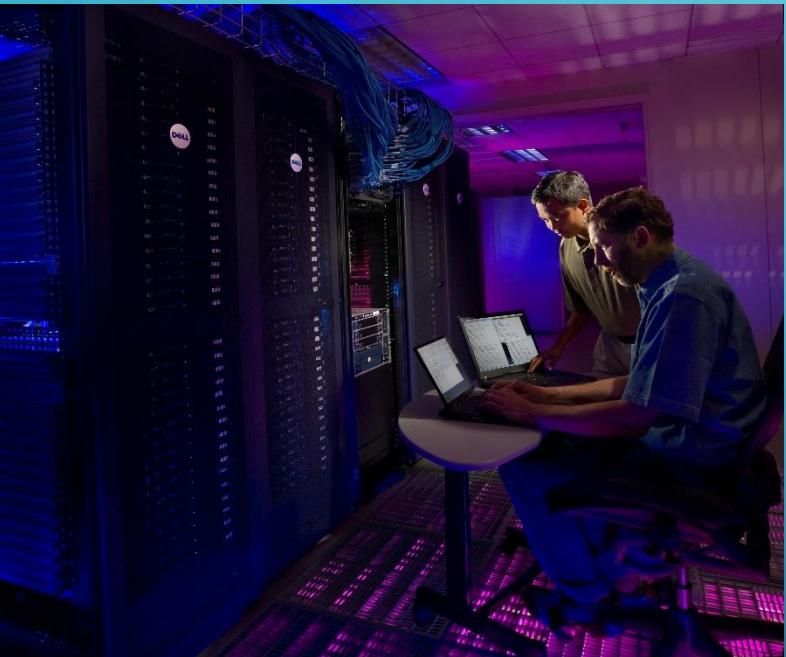
    @cachedProps
    def getAvatarLink99(self):
        return self._getAvatarLink99()

    @cachedProps
    def getAvatarLink100(self):
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```



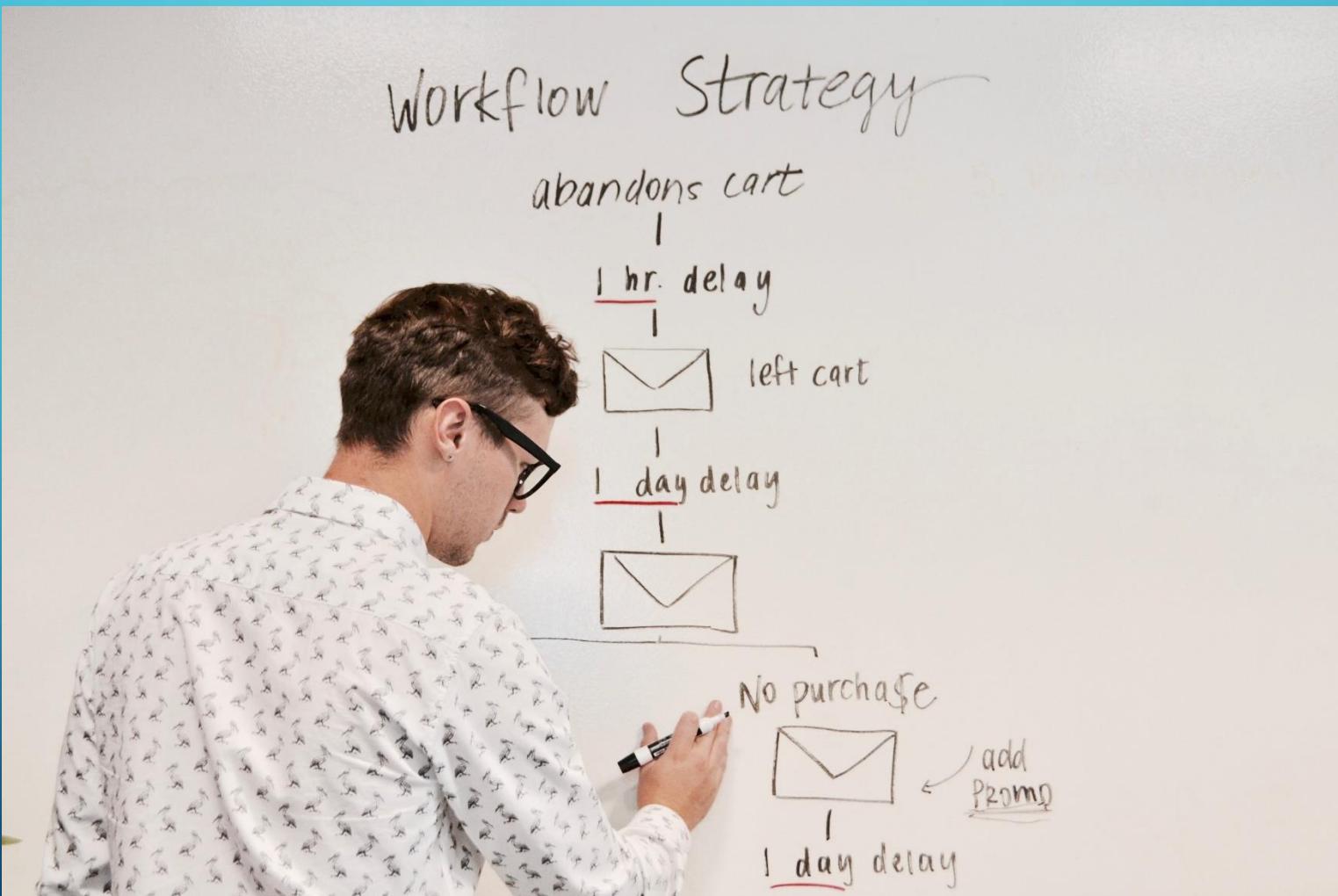
WHAT CAN PYTHON DO?

# WHAT CAN PYTHON DO?

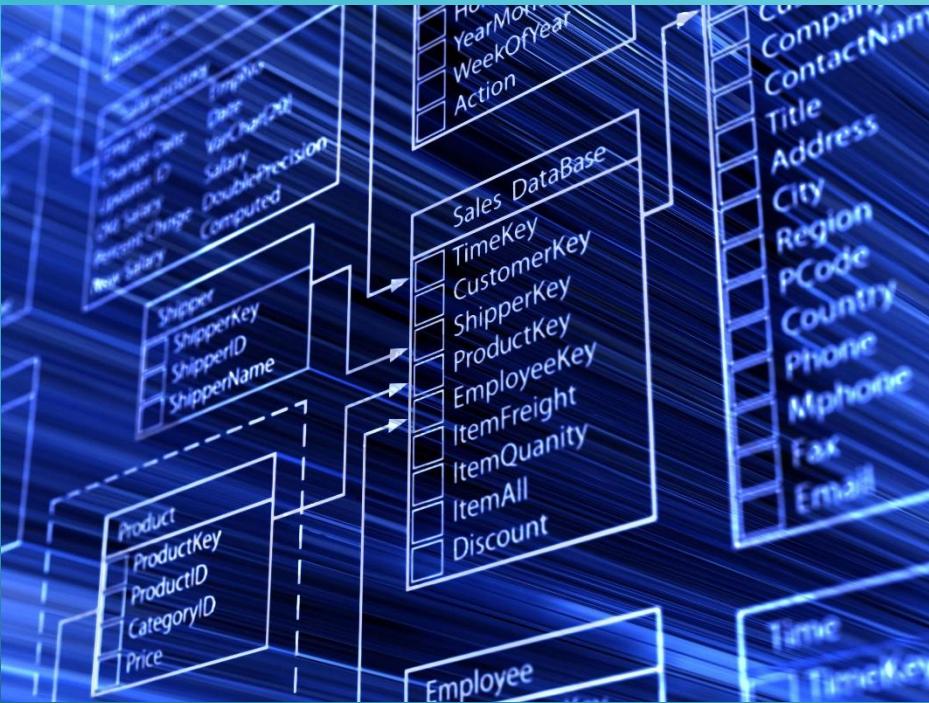


```
{ } sample.json > [ ] data
1 [
2   "data": [
3     {
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5       "id": "1",
6       "attributes": {
7         "title": "Working with JSON Data in python",
8         "description": "This article explains the various ways to work with JSON data in python.",
9         "created": "2020-12-28T14:56:29.000Z",
10        "updated": "2020-12-28T14:56:28.000Z"
11      },
12      "author": {
13        "id": "1",
14        "name": "Aveek Das"
15      }
16    }
17 ]
18 ]
```

# WHAT CAN PYTHON DO?



# WHAT CAN PYTHON DO?



# WHAT CAN PYTHON DO?



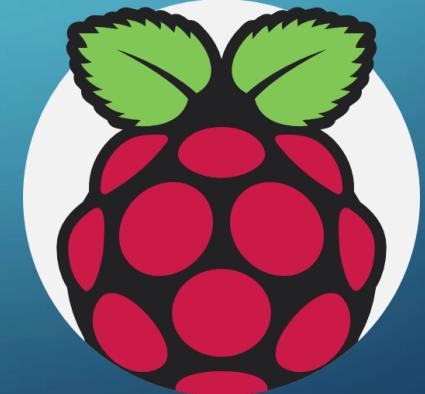
# WHAT CAN PYTHON DO?





WHY CHOOSE PYTHON?

# WHY CHOOSE PYTHON?



# WHY CHOOSE PYTHON?



```
print("Hello, World!")
```

# WHY CHOOSE PYTHON?

```
1 #!/usr/bin/python  
2  
3 print "Hello, World!"  
4
```

"Hello, World!" program  
in Python

```
1 #include <stdio.h>  
2  
3 int main()  
4 {  
5     printf("Hello, World! \n");  
6     return 0;  
7 }  
8
```

"Hello, World!" program  
in C

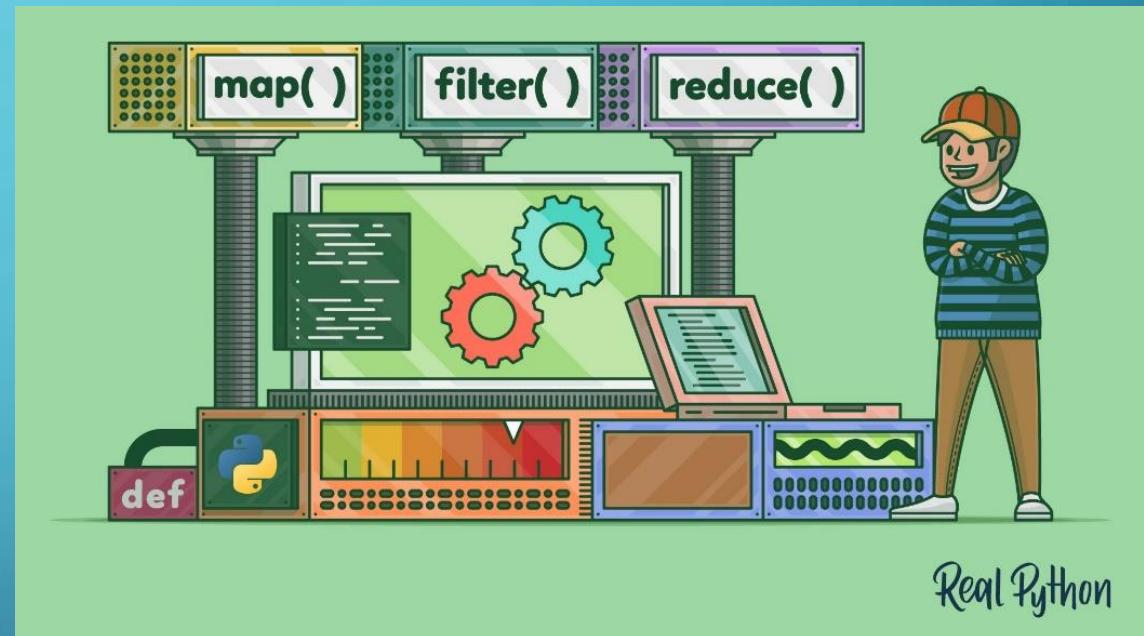
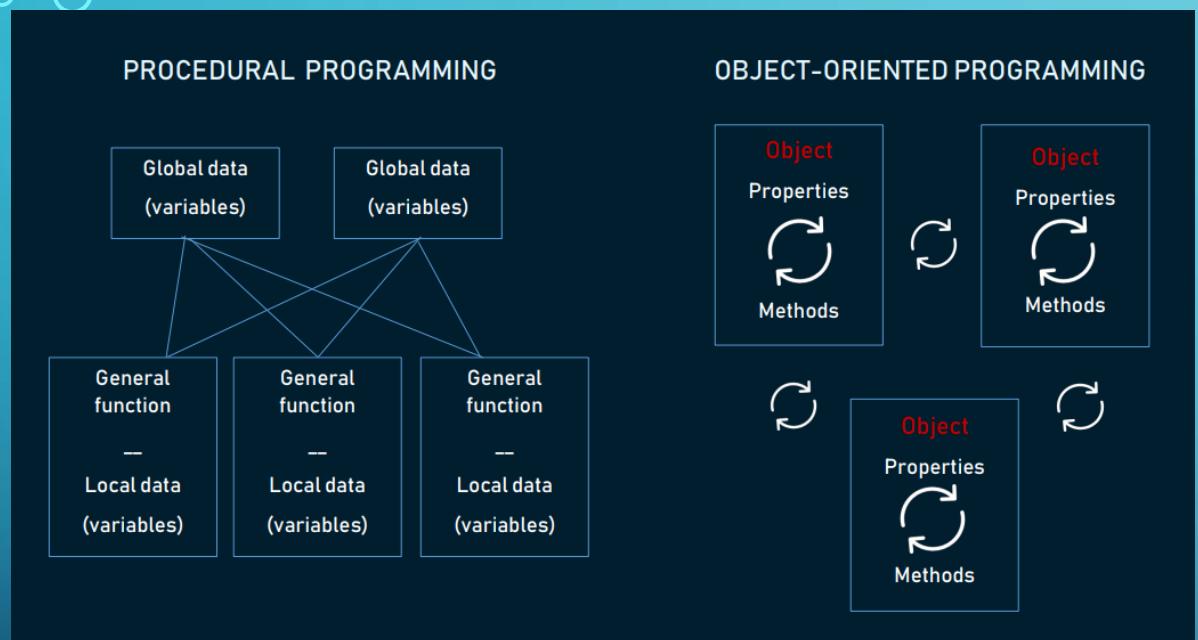
# WHY CHOOSE PYTHON?

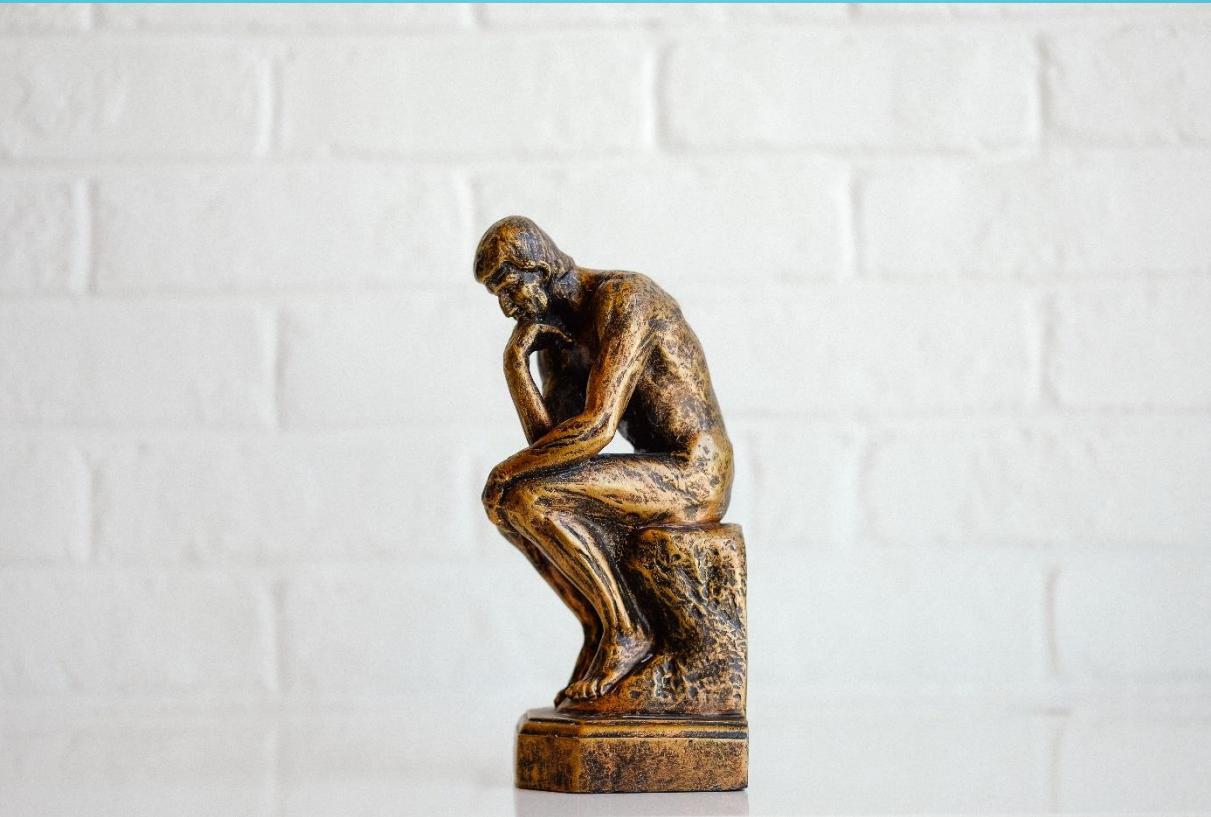
## INTERPRETER (NOUN)

- a computer program that is used to directly execute program instructions written using one of the many high-level programming languages
- transforms the high-level program into an intermediate language that it then executes, or it could parse the high-level source code and then performs the commands directly, which is done line by line or statement by statement

(Source: <https://www.techopedia.com/definition/7793/interpreter>)

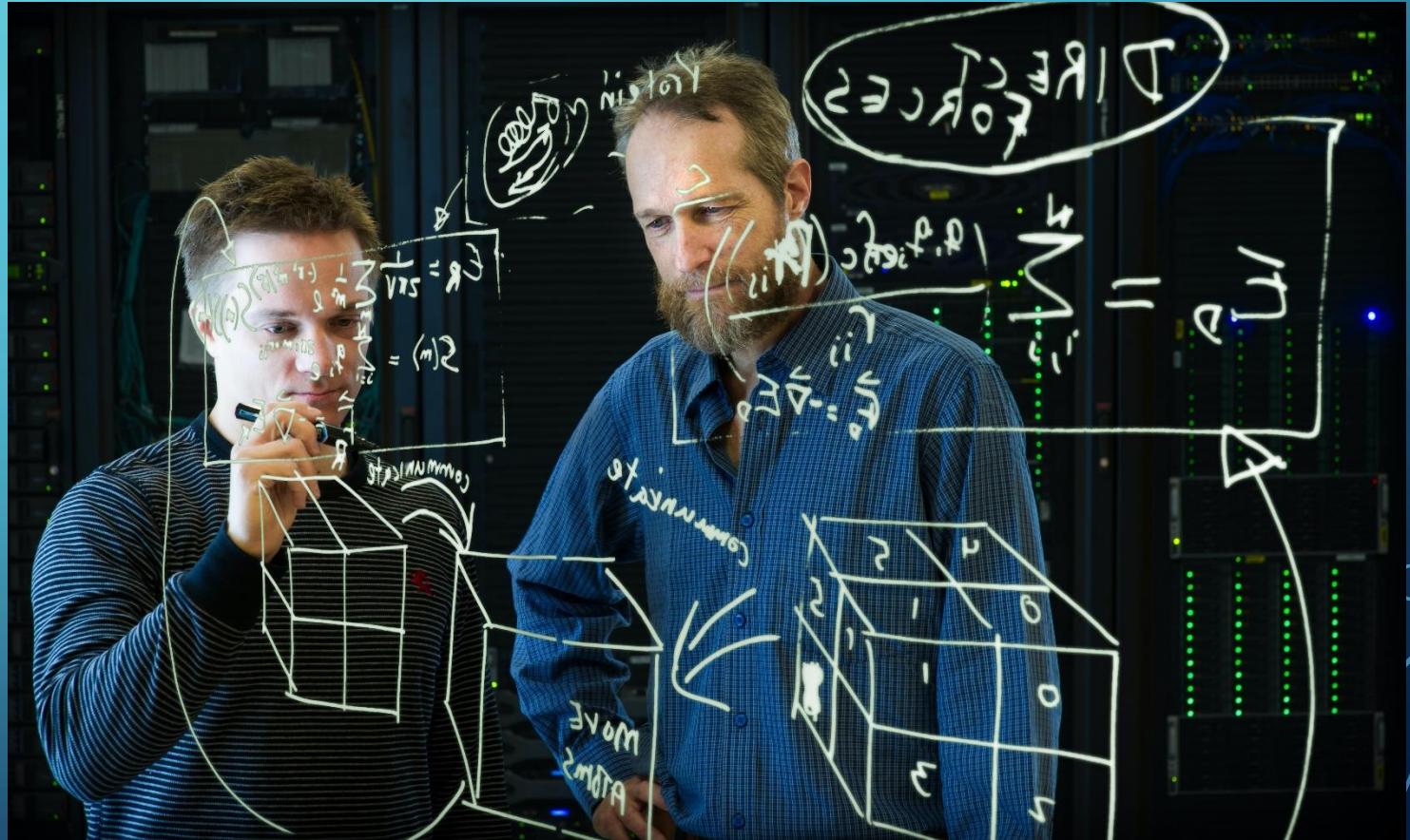
# WHY CHOOSE PYTHON?





WHAT MAKES PYTHON DIFFERENT?

# WHAT MAKES PYTHON DIFFERENT?



# WHAT MAKES PYTHON DIFFERENT?

\n

“We rely on this to complete a command. No need for semicolons! (Please refer to the Enter key.)”  
- Python Programming Language

# WHAT MAKES PYTHON DIFFERENT?

```
A = int ( input ( "Enter an integer (1~30): " ) )

if A % 2 == 0:
    print ("A is even")
    if A % 3 == 0 :
        print ("A is even and a multiple of 6 (6, 12, 18, 24, 30).")
elif A % 5 == 0:
    print ("A is even and a multiple of 10 (10, 20).")
else :
    print ("A is even and a number out of 2, 4, 8, 14, 16, 22, 26, 28.")

else :
    print ('A is odd')
    if A % 3 == 0 :
        print ('A is odd and a multiple of 3 (3, 9, 15, 21, 27).')
    else :
        print ('A is 1 or a number out of 1, 5, 7, 11, 13, 17, 19, 23, 25, 29.' )
```



**PYTHOMY**

W3  
schools

# PYTHON 3 SYLLABUS

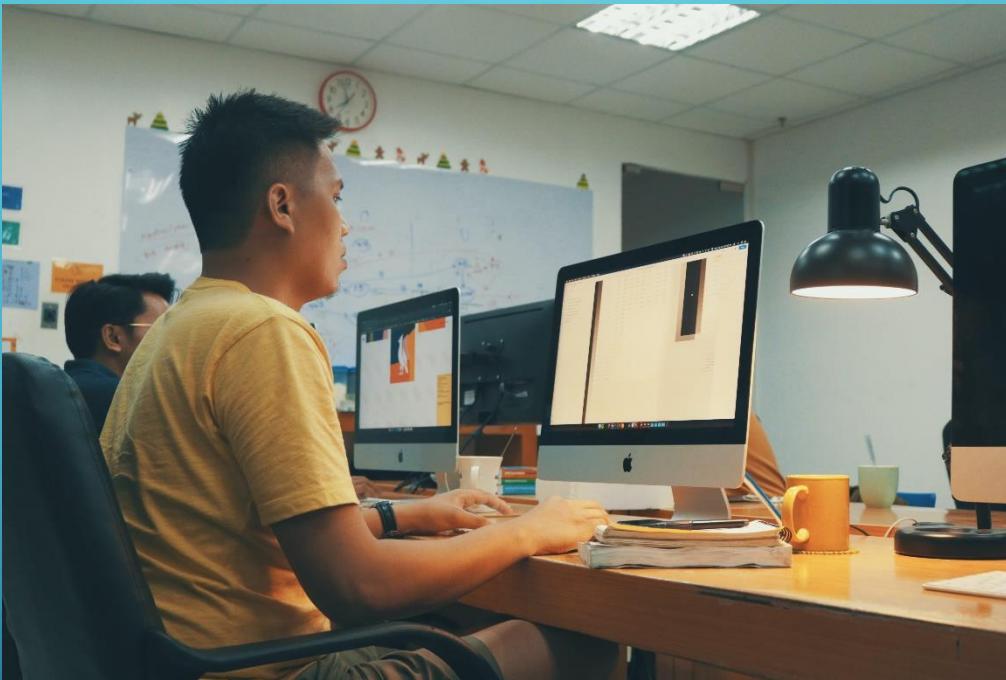
- Python Syntax
- Indentations
- Comments
- Variables
- Casting
- Numbers
- Strings
- Booleans
- Arithmetic Operators
- Assignment Operators
- Comparison Operators
- Logical Operators
- Membership Operators
- if statement
- elif statement
- else statement
- Lists
- Dictionaries
- while loop
- for loop
- Functions
- Classes & Objects
- Inheritance
- Sets
- Tuples
- Math
- String Formatting
- f strings
- Lambdas
- Iterators
- Scope
- JSON
- User Input
- Try...Except

# MORE SOURCES FOR LEARNING PYTHON



Your teachers/instructors/professors and the Dean

# MORE SOURCES FOR LEARNING PYTHON



Your fellow students, programmers or developers who are your seniors/experts,  
associates and juniors

# MORE SOURCES FOR LEARNING PYTHON



GC CCS Developers' Guild

(<https://www.facebook.com/groups/1134279733274369>)

## MORE SOURCES FOR LEARNING PYTHON



LinkedIn (<https://www.linkedin.com/>)

## MORE SOURCES FOR LEARNING PYTHON



Facebook (<https://www.facebook.com/>)

## MORE SOURCES FOR LEARNING PYTHON



Python Documentation (<https://docs.python.org/3/>)

Stable Version: 3.9.7

## MORE SOURCES FOR LEARNING PYTHON



W3Schools (<https://www.w3schools.com/python/default.asp>)

## MORE SOURCES FOR LEARNING PYTHON



Tutorials Point (<https://www.tutorialspoint.com/python/index.htm>)

## MORE SOURCES FOR LEARNING PYTHON



Programiz (<https://www.programiz.com/python-programming>)

## MORE SOURCES FOR LEARNING PYTHON



Udemy (<https://www.udemy.com/>)

## MORE SOURCES FOR LEARNING PYTHON

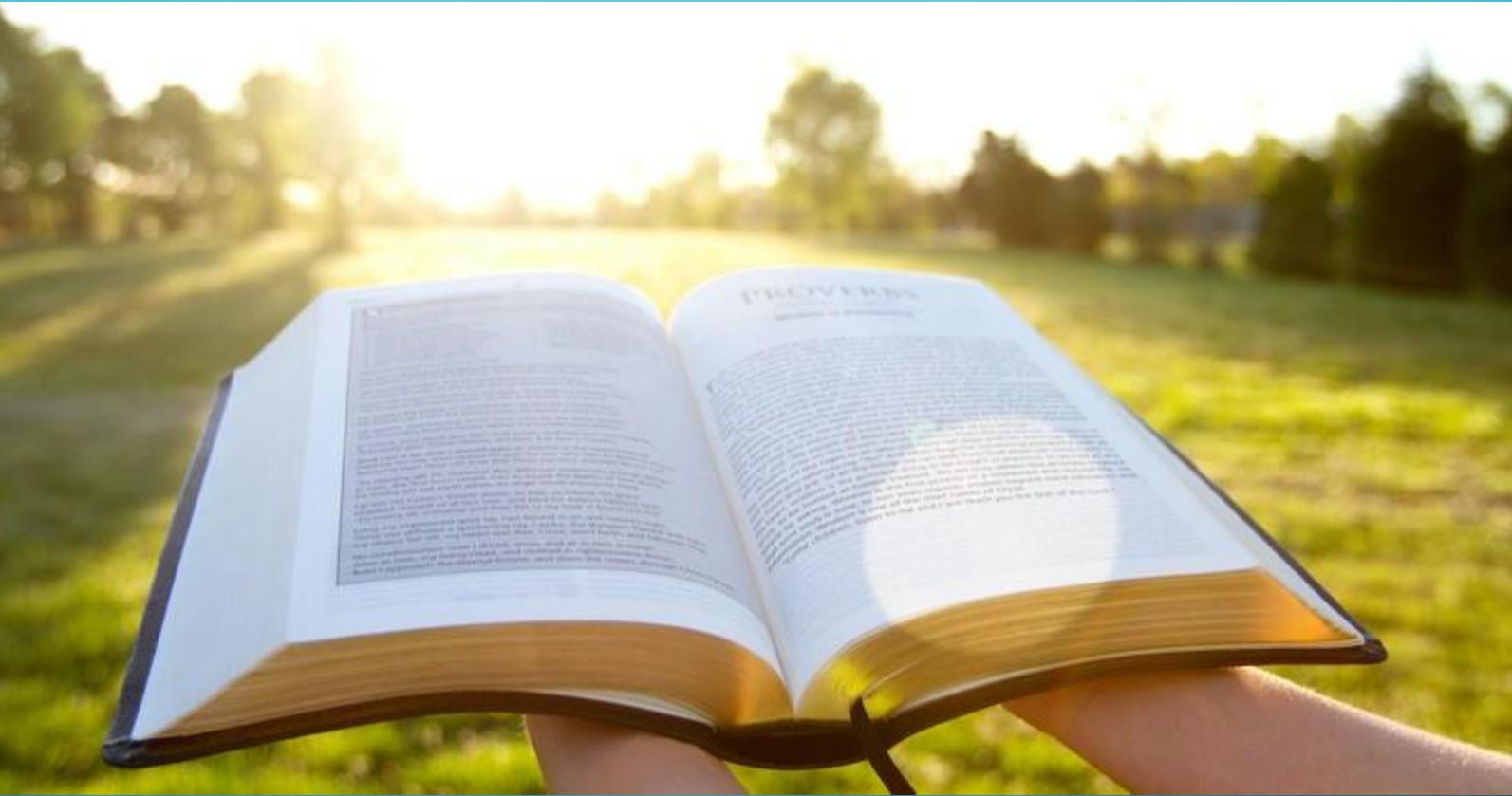


SoloLearn (<https://www.sololearn.com/home>)

## MORE SOURCES FOR LEARNING PYTHON



Stack Overflow (<https://stackoverflow.com/>)



“I have the strength to face all conditions by the power that Christ gives me.”

Philippians 4:13 (Good News Translation)

# SOURCES

- <https://gvanrossum.github.io/>
- <https://pythoninstitute.org/what-is-python/#:~:text=Python%20is%20a%20widely%2Dused,released%20on%20February%202020%2C%201991.>
- <https://unsplash.com/>
- <https://www.techopedia.com/definition/7793/interpreter>
- <https://www.w3schools.com/python/default.asp>