



Python Quick Reference

```
# Assign an number  
x = 5  
# Assign String variable  
maker = "I am a maker"  
# Make a number into a string  
str(x)  
# Combine strings  
newString = maker + " More string"
```

Variable

```
# Output a string  
print("Hello World ")  
# output a number  
print(x)  
# output string and number  
print("hello "+str(x)+ " world")  
#input  
myVariable = input("message")  
#to input number eval output  
myVariable = eval(myVariable)
```

Strings

```
# Make a list  
myList = ["item0 ", "item1 ", "item2 "]  
# Add item to list  
myList.append("item3")  
# Select first item in a list  
myList[0]  
# Select last item in the list  
myList[-1]
```

Lists

```
import time  
# Call function from time  
time.sleep(1) # Wait for 1 second  
# Import single function  
from math import sqrt  
# Call  
sqrt(2)
```

Import

```
# Addition  
1+3  
# Exponent  
2**3  
# Subtraction  
1-3  
# Modulus  
2%3  
# Multiplication  
1*3  
# Integer Division  
3//3  
# Division  
1/3
```

Maths

```
# Return True  
True  
not False  
(True | False) # or  
(True & True) #and  
# Return False  
False  
not True  
(False | False) # or  
(True & False) #and
```

Logic

```
# Return True if comparison holds  
x > y # Greater than  
x < y # Less  
x <= y # Less or equal  
x >= y # Greater or equal  
x == y # Equal  
x != y # Not equal
```

Compare

```
if(x > y):  
    print("x is larger ")  
elif(x < y):  
    print("y is larger ")  
else:  
    print("Equality! ")
```

If..else

```
# define a function  
def threeTimes(xin):  
    return xin*3  
# Call with input=5  
threeTimes(5)  
# Define Lambda function  
t = 5  
tMult = lambda a : a*t  
# Call with a = 5 t=6  
tMult(5)  
t = 1  
# Call with a = 5 t=1  
tMult(5)
```

Functions

```
# While less than  
while(x < y):  
    x += 1  
    print(x)  
# While true with break  
while(True):  
    x += 1  
    print(x)  
    if(x>y):  
        break
```

Loops

```
# For loop with default count  
for i in range(1,10):  
    print(2**i)  
# For loop with custom count  
for i in range(10,-10,-1):  
    print(2**i)  
# For loop over list elements  
for i in myList:  
    print(i)
```

```
# define Class  
class myClass:  
    # Initialisation  
    def __init__(self,in1,in2):  
        self.input1 = in1  
        self.input2 = in2  
    def add(self): # Class method  
        return self.input1+self.input2  
# Run the program  
myObject = myClass(1,2)  
myObject.add ()
```

Classes

The Python Language Reference

Guido Van Rossum, Python Dev Team



The Python Language Reference:

The Python Language Reference Guido van Rossum, Python Development Team, 2018-02-03 The Python Language Reference Release 3.6.4 describes the syntax and core semantics of the language. It is terse but attempts to be exact and complete. The semantics of non-essential built-in object types and of the built-in functions and modules are described in library index. For an informal introduction to the language see tutorial index. For C or C++ programmers two additional manuals exist: extending index describes the high-level picture of how to write a Python extension module and the c api index describes the interfaces available to C++ programmers in detail. This book is available for free as a PDF at python.org. *The Python Language Reference Manual* Guido Van Rossum, Fred L. Jr. Drake, 2011-03-01 This is a printed edition of the official Python language reference manual from the Python 3.2 distribution. It describes the syntax of Python 3 and its built-in datatypes and operators. Python is an interpreted object-oriented programming language suitable for rapid application development and scripting. This manual is intended for advanced users who need a complete description of the Python 3 language syntax and object system. A simpler tutorial suitable for new users of Python is available in the companion volume *An Introduction to Python for Python version 3.2* ISBN 978-1-906966-13-3. For each copy of this manual sold USD 1 is donated to the Python Software Foundation by the publisher Network Theory Ltd. Python Language Reference Release 3.11.3 Guido Van Rossum, Python Development Team, 2023-05-11 **Python Language Reference Manual** Guido Van Rossum, 2003 *PYTHON 3.6 LANGUAGE REF* Guido Van Rossum, Python Dev Team, 2016-12-04 This reference manual describes the syntax and core semantics of the language. It is terse but attempts to be exact and complete. This book is a paper version of the freely available electronic documentation of the python project. *The Python Library Reference* Guido van Rossum, Python Development Team, 2018-02-03 This book is the first half of *The Python Library Reference for Release 3.6.4* and covers chapters 1-18. The second book may be found with ISBN 9781680921090. The original Python Library Reference book is 1920 pages long. This book contains the original page numbers and index along with the back sections fully intact. While reference index describes the exact syntax and semantics of the Python language this library reference manual describes the standard library that is distributed with Python. It also describes some of the optional components that are commonly included in Python distributions. Python's standard library is very extensive offering a wide range of facilities as indicated by the long table of contents listed below. The library contains built-in modules written in C that provide access to system functionality such as file I/O that would otherwise be inaccessible to Python programmers as well as modules written in Python that provide standardized solutions for many problems that occur in everyday programming. Some of these modules are explicitly designed to encourage and enhance the portability of Python programs by abstracting away platform specifics into platform neutral APIs. This book is available for free as a PDF at python.org. Python Essential Reference David M. Beazley, 2009 *Python Essential Reference* is the definitive reference guide to the Python programming language the one

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Variables Chapter 3 Operators Chapter 4 Strings Chapter 5 Conditional Statements and Loops Chapter 6 Data Structures Chapter 7 Keywords Chapter 8 Functions Chapter 9 Libraries Chapter 10 Classes *Python 2.7.10 Language Reference* Guido Van Rossum, Python Development Team, 2015-10-23 This reference manual describes the syntax and core semantics of the language It is terse but attempts to be exact and complete This book is a paper version of the freely available electronic documentation of the python project Based on Python Version 2 7 10 UNIX Syed Mansoor Sarwar, Robert M. Koretsky, 2016-11-03 UNIX The Textbook Third Edition provides a comprehensive introduction to the modern twenty first century UNIX operating system The book deploys PC BSD and Solaris representative systems of the major branches of the UNIX family to illustrate the key concepts It covers many topics not covered in older more traditional textbook approaches such as Python UNIX System Programming from basics to socket based network programming using the client server paradigm the Zettabyte File System ZFS and the highly developed X Windows based KDE and Gnome GUI desktop environments The third edition has been fully updated and expanded with extensive revisions throughout It features a new tutorial chapter on the Python programming language and its use in UNIX as well as a complete tutorial on the git command with Github It includes four new chapters on UNIX system programming and the UNIX API which describe the use of the UNIX system call interface for file processing process management signal handling interprocess communication using pipes FIFOs and sockets extensive coverage of internetworking with UNIX TCP IP using the client server software and considerations for the design and implementation of production quality client server software using iterative and concurrent servers It also includes new chapters on UNIX system administration ZFS and container virtualization methodologies using iocage Solaris Jails and VirtualBox Utilizing the authors almost 65 years of practical teaching experience at the college level this textbook presents well thought out sequencing of old and new topics well developed and timely lessons a Github site containing all of the code in the book plus exercise solutions and homework exercises problems synchronized with the didactic sequencing of chapters in the book With the exception of four chapters on system programming the book can be used very successfully by a complete novice as well as by an experienced UNIX system user in both an informal and formal learning environment The book may be used in several computer science and information technology courses including UNIX for beginners and advanced users shell and Python scripting UNIX system programming UNIX network programming and UNIX system administration It may also be used as a companion to the undergraduate and graduate level courses on operating system concepts and principles **Proceedings of the 2022 4th International Conference on Economic Management and Cultural Industry (ICEMCI 2022)** Hrshikesh Mallick, Gaikar Vilas B., Ong Tze San, 2023-01-07 This is an open access book 2022 4th International Conference on Economic Management and Cultural Industry ICEMCI 2022 to be held in Chongqing Online on October 14 16 2022 As the leader of the global trend of scientific and technological innovation China is constantly creating a more open scientific and technological innovation environment expanding the depth and

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