

Python Cheat Sheet

by Roger Wattenhofer



```
a = 10 // 3      # a = 3 (integer division)
b = 10 % 3      # b = 1 (remainder of division)
c = 10 / 3      # c = 3.3333333333333335 (automatic float)
d = (3 * 0.1) == 0.3 # d = False (floats are not exact!)
e = 2 ** 1000   # (power results in big number? no problem!)
_ = 1           # - 2 (interactive: use _ for last result)
```

Math

```
a = "abcdefgh"
a = len(a)      # a = 8
b = a[0]        # b = 'a'
c = a[-1]       # c = 'h'
d = a[1:3]      # d = 'bc' (slicing)
e = a[3:-1]     # e = 'defg'
f = a[3:-1:2]   # f = 'df'
g = a[::2]      # g = 'bgfdhba'

x = list(range(5)) # x = [0, 1, 2, 3, 4] (range: lazy)
y = (3, 5, 8)     # y = (3, 5, 8) (direct construction)
z = [i**k for i in range(1,8)] # z = [1, 4, 9, 16, 25] (list comp.)
z.append(77)      # (appending element to list)
z.extend([88,99]) # (extending list with another list)
```

Strings & Lists

```
s = set({2,1,3,2,1})
s.add(4); s.remove(2)
print(3 in s)

d = {'alice': 24, 'bob': 22, 'charlie': 23} # dictionary)
d['eve'] = 24 # (add or change entry)
v = d.pop('charlie', None) # v = 23 (remove)
```

Sets & Dictionaries

```
if 3*a < y or a > 3*y: # if, elif, else as usual
    print("far")       # no braces but indents
elif a == y:
    print("equal")
else:
    print("near")

for item in d: # traverse keys (also: list, set)
    for i in range(len(d)): # traverse over indexes
        for i, item in enumerate(d): # both index and item
            break # break current loop

while a > 3: # while loops as usual
    print(x)
    x -= 1 # x = x - 1

print("hello") if a == 1 else print("x =",x) # cond. expression
```

Control

```
def square(x): # function definition
    return x**2 # with return value

f = lambda x : x**2 # lambda is one line function
print(f(3)) # - 25

l = [i**k for i in range(1,4)]
l.sort(key=lambda v : v % 100) # l = [1, 4, 25, 16, 9]
```

Functions

```
x = y = a = 1 # globally: set all = 1

def foo():
    global x # keyword global: global x is used
    x, y = 2, 2 # x is global, y is local, a is unchanged
    print(x,y,a) # - 2 2 1 (x is accessible)

foo()
print(x,y,a) # - 2 1 1 (note that global y was unchanged)
```

Scope

Non Programmer39s Guide To Python

Chris Y. Reynolds



Non Programmer39s Guide To Python:

Python Cyberpunk University,2017-01-17 LIMITED TIME OFFER Python eBook 4 99 NOW 2 99 Python Paperback 24 23 NOW 14 23 Learn How To Program With Python In Only 12 Hours What if you could automate your life to make it much easier How about building your own API s messaging bots or create an automated coffee machine to make you coffee at the right time with the perfect temperature Sounds good This is just a fraction of what you could do with Python and we would love to show you how in just 12 Hours Bullsh t you say Here at Cyberpunk University we believe that we have the ability to learn Python to anybody within 12 hours We know how quite tricky it is to learn and be a master of any programming language Our team is comprised of professionals who have been in the industry of information technology for decades and our experience made us able to create information products such as this step by step guide We took out all the bullsh t and tell you what to do and more important HOW TO DO IT What will you find in this book How to setup the programming language of the future How to run Hello World the RIGHTWAY How to use all the different data types in Python Exercises at the end of each chapter to help you master Python How to handle errors and exceptions when writing a program How you can test your programs BONUS Compilation of valuable links and tutorials to further develop your python skills BONUS The FREE Cyberpunk Python Whizz Kit including a Python Cheat sheet and 50 Free Python exercises you can use however you want Buy This Book NOW To Learn How To Program With Python in Only 12 Hours Pick up your copy today by clicking the BUY NOW button at the top of this page *Python Programming* Daniel O'Reilly,2021-02-07 55% OFF for Bookstores NOW at 32 95 instead of 42 95 Would You Like to Know How to Automate Boring Stuff Quickly Discover the Easiest Way to Learn Everything About Python and Machine Learning Are you ready to embark on a great journey through the incredible world of Python and data science If you are reading this you probably have a keen interest in programming and computer science You like to know how things work and you want to make them work as efficiently as possible right If so then Python is the perfect programming language for you to learn Would you like to Learn how programming in Python works Learn to automate tasks with Python Bring your ideas to life faster and monetize them easily But you Have no prior knowledge about Python Are a little bit afraid because it seems complicated Well if the answer to any question is yes then the solution you are looking for is right in front of you With this incredible bundle in your hands you will go from beginner to pro in no time The guides found inside this bundle are designed explicitly for people with little or no prior knowledge about Python programming Every manual is written in a step by step and easy to digest manner so that you can understand Python without any trouble Here s what this bundle about Python programming and data science can offer you Basics of programming with Python A comprehensive guide on how to get everything up and running Essential tools guide Learn how to use the best tools that are available for programming with Python Programming made easy Quick and easy way to learn how to make amazing and useful programs Mastering the art of programming Find out how to go from beginner to pro in no time with unique coding

methods Practical techniques and exercises Put your knowledge to test and bring your ideas to life in no time It doesn't matter if you are a beginner or you have never coded before this guide will slowly ease you into the world of Python and data science While most of the other similar books focus purely on theory and complicated concepts these guides focus on a more practical approach to learning Python and data science First of all you'll learn basic programming concepts such as variables lists classes and loops Then you will practice clean code writing and how to test your code safely After that you'll be able to put your knowledge to the test with some practical projects Here is what else this bundle will show you The basics of data types variables and structures How to properly define the data type of data structure Suitable types of operations and functions for data structuring Methods and applications of data analysis The basics of neural networks and how to create one Use of algorithm and models in data science Using data for prediction and deep learning The best thing about Python is that it's easy to learn and even easier to get up and running By using tools like Django for example you can quickly bring your ideas and creations to life and start monetizing them in no time The second best thing about learning how to program in Python is the advantage you'll have when you start learning other programming languages after you master Python learning different programming languages will be a piece of cake If you want to conquer the Python programming language in no time all you have to do is take these guides in your hands and follow the step by step instructions

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Unsure where to get started with coding Worried that learning a coding language will be too hard Or do you want to learn the easiest programming language Learning how to start with a new coding language is not always as easy as it may seem and some beginners are worried that working in this kind of language is going to be difficult and they give up before trying Maybe you have heard horror stories from those who tried to coding in the past and nothing worked The truth is Python does work and it is as simple as it seems Python Programming is going to take the time to teach you whether you are a total beginner or have worked with some coding in the past how to handle the Python language and how to make it work for your needs We will look not only at what this language is but give you some practical examples that can help you to start coding in this language in no time You will learn Why Python is Considered One of the Best Languages to Learn as a Beginner Step by Step Instructions to Download Install Python language on Windows Mac and Linux 5 Common Mistakes to Avoid when You Start Coding Basics of Python Programming that Will Allow You to Write your First Program in No Time How to Handle Strings Operators Conditional Statements The One Thing You Need to Debug your Codes in Python Practical Exercises to Quickly Get Practice Simple Strategies to Write Clean Understandable and Flexible Code With the help of Python Programming you will be able to learn more about how coding in this language works and how even someone with no coding experience can make it work Keep in mind that you can never compare a well structured guide with free online resources like Youtube videos and Blogs mostly out dated Whether you're completely new to programming or you are looking for a new language to expand your skills you will find this book an invaluable tool for starting and mastering

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to skyrocket your education and your programming skills Apply Your Knowledge with the practical exercises inside the book which cover everything from the basics to data analysis and machine learning Programming can be hard if you don't have a precise step by step guide Luckily inside this book you will find all the building blocks needed to start your Python programming journey See you inside as you start your Python coding journey *Python for Beginners* Joshua Welsh, 2016-12-16 There are few better pursuits you could undertake than learning to program Not many things will benefit you as directly as programming will This book will teach you how to go from setting up your Python environment to working with complex object oriented concepts all in a matter of no time If you want to learn Python quickly but still have an impressive grasp on it this just might be the book for you If you're on the edge of learning Python I should just say that programming is the only form of self expression that allows the end user to directly interact with your art Programming is a science but it's also an art In this book you're going to learn how to start to use this hugely dynamic language in order to make computers do what you want them to do Whether you're learning to program as a career move as a hobbyist or as somebody just looking to dabble in computer programming learning programming is ultimately one of the best moves you'll ever make for yourself It's my goal in this book to ensure that you are an able Python programmer in no time at all There are many books about Python programming on the market but there are few that will cater so kindly to helping you get on your feet in Python and helping you feel like you know the language inside and out in no time at all This is one of them **Python For Beginners** John Snowden, 2020-12-02 Have you always wanted to learn computer programming but are afraid it'll be too difficult for you Or perhaps you know other programming languages but are interested in learning the Python language fast Or did you think you didn't have enough basic skills If so keep reading Are you ready to dip your toes into the exciting world of Python coding This book is for you You no longer have to waste your time and money learning Python from lengthy books expensive online courses or complicated Python tutorials What this book offers Python for Beginners Complex concepts are broken down into simple steps to ensure that you can easily master the Python language even if you have never coded before Carefully Chosen Python Examples Examples are carefully chosen to illustrate all concepts In addition the output for all examples is provided immediately so you do not have to wait till you have access to your computer to test the examples Careful selection of topics Topics are carefully selected to give you a broad exposure to Python while not overwhelming you with information overload These topics include object oriented programming concepts error handling techniques file handling techniques and more Learn The Python Programming Language Fast Concepts are presented in a to the point style to cater to the busy individual With this book you can learn Python in just one day and start coding immediately What you'll learn What is Python What software you need to code and run Python programs What are variables What are the common data types in Python What are Lists and Tuples How to format strings How to accept user inputs and display outputs How to control the flow of program with loops How to handle errors and exceptions What are functions and modules How to define

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- Basics of programming with Python A comprehensive guide on how to get everything up and running
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- Practical techniques and exercises Put your knowledge to test and bring your ideas to life in no time

It doesn t matter if you are a beginner or you have never coded before this guide will slowly ease you into the world of Python and data science While most of the other similar books focus purely on theory and complicated concepts these guides focus on a more practical approach to learning Python and data science First of all you ll learn basic programming concepts such as variables lists classes and loops Then you will practice clean code writing and how to test your code safely After that you ll be able to put your knowledge to the test with some practical projects Here is what else this bundle will show you

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- How to properly define the data type of data structure
- Suitable types of operations and functions for data structuring
- Methods and applications of data analysis
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The best thing about Python is that it s easy to learn and even easier to get up and running By using tools like

Django for example you can quickly bring your ideas and creations to life and start monetizing them in no time The second best thing about learning how to program in Python is the advantage you ll have when you start learning other programming languages after you master Python learning different programming languages will be a piece of cake If you want to conquer the Python programming language in no time all you have to do is take these guides in your hands and follow the step by step instructions So what are you waiting for Scroll up click on Buy Now with 1 Click and Get Your Copy Now

A Slackers Guide to Coding with Python Chris Y. Reynolds, Discover the Exciting World of Python Programming Welcome aspiring programmer to the fascinating realm of Python programming Are you ready to embark on an exciting journey through the captivating land of code Do you aspire to master the power of Python and become a skilled coder Look no further this guide is here to lead you through a thrilling and engaging quest This extraordinary book is designed with the beginner in mind providing a fun and engaging approach to learning Python With its humorous and casual tone this book will make you feel like you re on an adventurous journey while mastering the essential principles of Python programming In this captivating guide you ll discover Entertaining explanations that simplify the world of Python for beginners A multitude of engaging examples and exercises that bring Python concepts to life The Essential Dictionary of Python Terminology an invaluable glossary for deciphering the unique language of programming Embark on an exciting journey through the following domains Python Fundamentals Learn the art of crafting captivating code with variables operators and control flow Data Structures Master the power of versatile objects like lists tuples dictionaries and sets Error Handling Tame the unruly forces of bugs and errors with try except blocks and custom exceptions Working with Files Uncover the secrets of reading and writing text CSV and JSON files Modules and Packages Utilize the power of useful tools and resources with Python libraries Project Build an engaging command line application to showcase your coding expertise And so much more With this guide you ll unlock the power of Python programming and become a proficient coder in no time So put on your thinking cap grab your keyboard and embark on a thrilling journey through the fascinating world of Python today Note This guide is not meant to be comprehensive it s meant to get a newbie started on their way to coding and help them understand technical terms and processes

Python Programming Ryan Turner, 2018-11-10 If you re looking for a way to become an expert coder and impress your friends with the programs you can make from scratch then keep reading Here s the deal You know that coding is an in demand skill You know that you can use it to make money on the side find your dream job or even ask for a raise and get it at your regular job However the idea of learning how to code can put you in a cold sweat You could choose to hire another programmer to do the work but this is costly and if anything ever goes wrong with the program you have to pay them again and again You may even have a great idea for how to code a website or make your own app or even a game but with the costs being so high it seems pointless and not worth your time Does this sound like something you have been through Then the information in this book is the answer that you need Inside you will find all the tips tricks and practice codes that

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the first choice in this case as it is more user friendly The coding style in Python is more intuitive and it is also less complex That s why you need to start immediately to learn how Python works thanks to Python Programming or beginners The simplified beginner s guide to learn basics of Python Computer Language coding project data science data analytics and machine learning by Matthew Python Though Python is a very high level language it is capable of doing complex tasks Python is not only easy to learn but also ha a very clean syntax Thus it can be used by both beginners as well as experienced programmers Also there is no need to enroll in courses with high fees to learn the language One can do self study enroll in online tutorials or in coding boot camps to learn the languages The goal of the eBook is simple allow you to have a deep understanding of Python as a programming language Here s what you ll learn What is Python History Different of Python version How to download and install different O S Python preparing computer for Python writing first python program Installation of Python How to download and install different O S Python preparing computer for Python Building Development environment writing first python program What are Variables and Strings Explain why variables are needed variable naming and assignment static type and dynamic type python s numeric data types decimal mode constant formatting input and output function some practice exercises Operators in Python Explain why operators are necessary arithmetic Operators modulus squaring and cubing in python Would you like to know more Scroll up and add to cart Python Programming for beginners by Matthew Python **Python the No-Bullsh*t Guide** Cyberpunk University,2017-01-09 LIMITED TIME OFFER Python eBook 4 99 NOW 2 99 Python Paperback 20 23 NOW 10 23 Learn How To Program With Python In Only 12 Hours What if you could automate your life to make it much easier How about building your own API s messaging bots or create an automated coffee machine to make you coffee at the right time with the perfect temperature Sounds good This is just a fraction of what you could do with Python and we would love to show you how in just 12 Hours Bullsh t you say Here at Cyberpunk University we believe that we have the ability to learn Python to anybody within 12 hours We know how quite tricky it is to learn and be a master of any programming language Our team is comprised of professionals who have been in the industry of information technology for decades and our experience made us able to create information products such as this step by step guide We took out all the bullsh t and tell you what to do and more important HOW TO DO IT What will you find in this book How to setup the programming language of the future How to run Hello World the RIGHTWAY How to use all the different data types in Python Exercises at the end of each chapter to help you master Python How to handle errors and exceptions when writing a program How you can test your programs BONUS Compilation of valuable links and tutorials to further develop your python skills BONUS The FREE Cyberpunk Python Whizz Kit including a Python Cheat sheet and 50 Free Python exercises you can use however you want Buy This Book NOW To Learn How To Program With Python in Only 12 Hours Pick up your copy today by clicking the BUY NOW button at the top of this page [Python Programming](#) Clive Campbell,2019-08-17 Buy the Paperback Version of this Book and get the Kindle Book version

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Reviewing **Non Programmer39s Guide To Python**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Non Programmer39s Guide To Python**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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