Python Cheat Sheet

by Roger Wattenhofer

Math

```python
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 + 1                 # = 2 (interactive: use _ for last result)
```

Strings & Lists

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

x = list(range(5))              # x = [0, 1, 2, 3, 4] (range: lazy)
y = [3, 5, 8]                   # y = [3, 5, 8] (direct construction)
z = [i*i for i in range(1,6)]   # z = [1, 4, 9, 16, 25] (list compr.)
z.append(77)                    # (appending element to list)
z.extend([88,99])               # (extending list with another list)
```

Sets & Dictionaries

```python
a = set([2,1,3,2,1])
a.add(4); a.remove(2)           # a = {1, 3, 4}
print(3 in a)                   # = True

d = {'alice': 24, 'bob': 22, 'charlie': 23}   # (Dictionary)
d['eve'] = 26                   # (add or change entry)
v = d.pop('charlie',None)       # v = 23 (remove)
```

Control

```python
if 2*x < y or x > 2*y:          # if, elif, else as usual
    print("far")                # no braces but indents
elif x == 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 x > 3:                    # while loops as usual
    print(x)
    x -= 1                      # x = x - 1

print("hello") if x == 5 else print("x =",x)   # cond. expression
```

Functions

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

f = lambda x : x*x              # lambda is one line function
print(f(5))                     # = 25
l = [i*i for i in range(1,6)]
l.sort(key=lambda v : v % 10)   # l = [1, 4, 25, 16, 9]
```

Scope

```python
x = y = z = 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, z is unchanged
    print(x,y,z)        # = 2 2 1 (z is accessible)

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

[Non Programmer39s Guide To Python](#)

H Kauffman

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 Get Your Copy Now   *Python Programming* John Russel,2020-11-08 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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following the easy coding examples and projects fully explained inside this guide It doesn t matter if you have never programmed anything before This step by step guide gives you everything you need to know to do more with Python than you ever thought possible Fully up to date for 2019 Python has been around for a long time but has evolved over the years Save yourself the headache and frustration of trying to use a guide that just isn t up to date anymore Brand new and fully up to date this guide shows you exactly what you need to do to start programming in Python today Here is a preview of what you will learn in this guide Introduction The Basics The first languages The 1980 s to today What is Python Benefits of learning Python Getting familiar with the language How Python Works Objects and classes Attributes and methods Inheritance Loops Conditional statements Exceptions Modules packages and libraries How To Get Started Setting up the environment Installing Python Getting ready to code Coding your very first program Walkthroughs Prime number program Sending texts Sending plain text email Drawing with Turtle Creating games Tips For Success Code everyday Find other beginners Try explaining Python out loud Check out other languages Have a plan for when you get stuck Recommended Resources And so much more If you aren t a tech savvy person or have no programming experience have no fear With this guide in your hands that will not be a barrier for you any longer Learn Python programming quickly and easily when you grab this guide now **Python for Beginners** Arthur T. Brooks,2019-09-25 Buy the Paperback today and get the Ebook Free US Only Have you always wanted to learn computer programming but thought it was too difficult or would take too long Do you want to know the secret to learning Python the easy way and start programming today This book is for you You don t need to waste your time and money learning Python the hard way through tiresome technical books expensive online courses and difficult Python tutorials This non technical book will gently guide you through The Python Programming Language You will learn the most concise methods to get you coding on day one the smart way Python for Beginners Beginner friendly hands on examples of practical and usable projects The most useful Python examples Each example is specifically designed to give you a progressive and thorough understanding of key concepts and all answers are provided Strategic Python topics The topics are presented in user friendly bite sized chunks to optimize a quick learning style which will also make it easy for you to remember This book is different in that it s primary focus it to teach you Python coding in a simple and concise format and in the quickest time frame possible Each short chapter has exercises at the end which summarize what you have learned in a progressive manner to avoid overloading you with information Each exercise has been carefully chosen to enable you to master the language and retain what you have learned No technical skills previous knowledge or experience is required Download it now buy clicking the BUY button You ll also learn Exactly what is Python Which software do you need to code and run Python programs and where to find it What are variables What are strings and methods Using operations with numbers Using operations with lists How to use comments Working with loops Working with IF statements Operations involving dictionaries Operations using defined functions How to work with files How to manage errors and exceptions And more Finally you will be gently guided on

how to put everything that you have learned together so that you can immediately start your own Python coding in your chosen real world scenarios If you are serious about learning Python fast and learning it well then start today by scrolling to the top and buying with one click Money back guarantee You don t need a kindle device to read this eBook You can read it on you PC Laptop Mac iPad Tablet or even your phone Python Object oriented Python Python course Python book learning Python Python language Python examples Python tutorials Python programming language Python coding Python programming for beginners Python for Dummies the python The Python **PYTHON PROGRAMMING FOR BEGINNERS** Antonio Webber, Learn Python Programming Fast A Beginner s Guide to Mastering Python from Home Python is the most in demand programming language in 2024 As a beginner learning Python can open up high paying remote and freelance job opportunities in fields like data science web development AI and more If you re a beginner with no coding background this hands on Python Programming course is perfect for you It provides a foundations first introduction to Python programming concepts using simplified explanations practical examples and step by step tutorials The book includes many practical exercises and real world projects making it the best way to learn programming This is not Hype you will learn something new in this Python Programming for Beginners What You Will Learn in this Python Programming for Beginners Book Python Installation How to download Python and set up your coding environment Python Syntax Key programming constructs like variables data types functions conditionals and loops Core Programming Techniques Best practices for writing clean efficient Python code Built in Data Structures Hands on projects using Python lists tuples dictionaries and more Object Oriented Programming How to work with classes objects and inheritance in Python Python for Web Development Build a web app and API with Python frameworks like Django and Flask Python for Data Analysis Use Python for data science and work with Jupyter Notebooks Python for Machine Learning Implement machine learning algorithms for prediction and classification Bonus Python Coding Interview Questions Practice questions and answers to prepare for the interview This beginner friendly guide will give you a solid foundation in Python to build real world apps and land your first Python developer job Learn Python in 2024 the easy way Get Your Copy Now to Start Coding Python Like a Pro **Python Programming: An Easiest Beginner to Expert Guide to Learn Python** Andrew Burn,2019-03-16 For limited period only at a discounted price Python is an object orientated l ngu g th t l l r mbl th English language whi h m k it a gr t language t learn f r b ginn r It dv n d features nd package of u rt d libr ri v n makes h rd task be writ bl in bun h f lin f code Alm t n n can l rn t r gr m Th r r nl a few r uir m nt like h ving access to a m ut r nd you d n t h v to b a g niu Well it helps if you r a g niu I u but u d n t HAVE t b n Thi B k addresses some f th m tiv ti n u might have for w nting t l rn digital r gr mming l k at m things t consider and di u a f w different w t start learning now If You are absolute Beginners or Expert this book will help you in building your core knowledge Through this book You will learn WHY SH ULD YOU L RN Python Programming Wh t You n D A P th n r gr mm r P th n Reserved words H W TO INSTALL PYTH N Y UR FIR T PYTH N S RI T V RI BL AND DATA TYPES OPERATORS IN PYTH

N C NDITI N L EXECUTION AND REPETITIVE T K FUN TI N L PR GR MMING R DING AND WRITING FIL IN PYTH N R GUL R EX R I N OBJ T ORI NT D PR GR MMING B I ADV N D OBJ T ORI NT D PR GR MMING ERRORS ND EX TI N Finally you ll be guided through a hands on project that requires the application of all the topics covered Click the BUY button and download the book now to start learning Python Learn it fast and learn it well Tags Python Object oriented Python Python course Python book learning Python Python language Python examples Python tutorials Python programming language Python coding Python programming for beginners Python for Dummies *Python for Beginners* Itc Academy,2021-01-30 Are you searching for the fastest way to mastering Python programming This is the easiest way you can do it What are you waiting for Keep reading Python for Beginners is a book that is going to change your perception about computer programming and teach you the secrets of Python programming language If you are a student or a professional looking for more technical skills then this is definitely the book for you This book offer a revolutionary approach will speed up your learning You will master the Python language and its powerful applications in an extremely short time even if you are a complete beginner Examples illustrations and step by step guides will guide you not to make mistakes and not to cause confusion Here is just a tiny fraction of what you will learn The basics of Python programming Variables data types basic and advanced operations Essential Python libraries Python Object Oriented Data visualization tools and techniques Multithreaded Programming Network Programming CGI Programming Regular Expression Step by step exercises practical examples tips and tricks and many many other This book is the perfect choice for anyone who don t know programming hate wasting time or want ZERO confusion Now if you are really serious about python programming and want to write your first program then click the BUY NOW button to start doing so immediately *Learn Python Programming for Beginners* Flynn Fisher, The Complete Python Masterclass Made Easy Even if You ve Never Coded in Your Life If you go on Google right at this second and open any statistics with the most in demand programming languages for the past 5 years until today you will consistently see in the top 3 a language called Python More often than not it is the number one programming language to learn year after year But why would so many people look for Python experts Two big reasons It s an extremely powerful high level programming language The coding syntax is very simplified making it fail proof to learn and execute Combining those two things makes Python constantly being improved and updated While learning the basics is something that will get you started you will have the ability to grow your skills above and beyond because there s always new updates and improvements being made In Learn Python Programming for Beginners Flynn Fisher starts from scratch He will teach you the fundamentals of coding with Python and help you lay down the building blocks of your future programming abilities This book is made in a way that every chapter is building upon each other By the end you will learn The Fundamentals of Python Programming laid down in a matter of days with a no nonsense approach of learning Creating Operations by Combining the Fundamentals together and building upon each other step bystep Machine Learning with Python explained in plain English that will get you

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

your own functions and modules much more If you are already convinced I invite you to continue reading this book I promise you that the more and more you go into each of the topics presented you will discover all the potential that programming has in a practical way and that you are capable of doing much more than you imagined Scheduling is not difficult when you invest the right amount of time are persistent and value self learning You will find that solving the challenges faced during code development is something rewarding and when you can visualize your creations after a day of study you will feel motivated to continue and eager to know more Click the BUY button and download the book now to start learning Python Learn it fast and learn it well **Python Programming** Daniel O'Reilly,2020-11-06 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 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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Table of Contents Non Programmer39s Guide To Python

1. Understanding the eBook Non Programmer39s Guide To Python
    - The Rise of Digital Reading Non Programmer39s Guide To Python
    - Advantages of eBooks Over Traditional Books
2. Identifying Non Programmer39s Guide To Python
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Non Programmer39s Guide To Python
    - User-Friendly Interface
4. Exploring eBook Recommendations from Non Programmer39s Guide To Python
    - Personalized Recommendations
    - Non Programmer39s Guide To Python User Reviews and Ratings
    - Non Programmer39s Guide To Python and Bestseller Lists

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