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# The 8 Best Free Python Cheat Sheets for Beginners and Experts

September 19, 2018 By sak1m 4 Comments

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## Download a PDF version of this Post

Python Cheat Sheet can be really helpful when you're working on a project or trying a set of exercises related to a specific topic.

" If you are just getting started with Data Science or Machine Learning, i've got you covered in this blog post about **Learning how to** learn Data Science (Python, Maths and Statistics).

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in the form of cheat sheet.



## 7+ Best Python Cheat Sheets ...

Here's a curated a list of Python Cheat Sheets and most commonly used Python Libraries. You'll be able to download them with ease and grasp the fundamentals for long-term benefits

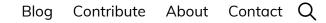
## 1. Python for Data Science Cheat Sheet

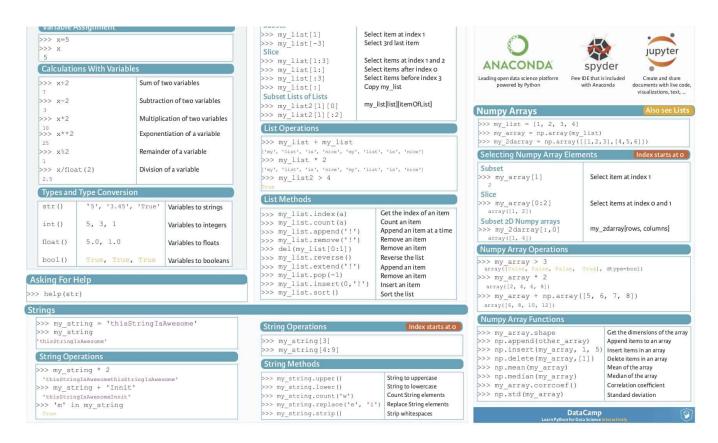
This Python Cheat Sheet presents the Python basics that you need to do data science and will guide you through variables and data types, Strings, Lists, to eventually land at the fundamental package for scientific computing with Python, Numpy.



Also, This cheat sheet is free additional material that complements

DataCamp's Intro to Python for Data Science course, where you learn by doing.





## You can Download Pdf here

## 2. Python Cheat Sheet for Data Science: Basics

This cheat sheet is the companion to free Python
Programming Beginner Course course offered by
Dataquest which can start you on your data science
journey.



You'll be able to practice reading files, Strings, Numeric Types, and Mathematical Operations, Lists and Dictionaries, Modules and Functions, Boolean Comparisons,

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# Data Science Cheat Sheet Python Basics

#### BASICS, PRINTING AND GETTING HELP

x = 3 - Assign 3 to the variable x help(x) - Show documentation for the str data type print(x) - Print the value of x help(print) - Show documentation for the print() function

type(x) -Return the type of the variable x (in this case, int for integer)

#### READING FILES

f = open("my\_file.txt","r")

file\_as\_string = f.read()

 Open the file my\_file.txt and assign its contents to s

import csv

f = open("my\_dataset.csv","r")

csvreader = csv.reader(f)

csv\_as\_list = list(csvreader)

 Open the CSV file my\_dataset.csv and assign its data to the list of lists csv\_as\_list

#### STRINGS

s = "hello" - Assign the string "hello" to the variable s

s = """She said,

"there's a good idea."

 - Assign a multi-line string to the variable s. Also used to create strings that contain both " and ' characters

len(s) - Return the number of characters in s

s.startswith("hel") - Test whether s starts with
the substring "hel"

s.endswith("lo") - Test whether s ends with the substring "lo"

"{} plus {} is {}".format(3,1,4) - Return the string with the values 3, 1, and 4 inserted

s.replace("e", "z") - Return a new string based on s with all occurances of "e" replaced with "z"

s.split(" ") - Split the string s into a list of
 strings, separating on the character " " and
 return that list

#### NUMERIC TYPES AND

MATHEMATICAL OPERATIONS

i = int("5") - Convert the string "5" to the integer 5 and assign the result to i

f = float("2.5") - Convert the string "2.5" to the float value 2.5 and assign the result to f

5 + 5 - Addition

5 - 5 - Subtraction

10 / 2 - Division

5 \* 2 - Multiplication

3 \*\* 2 - Raise 3 to the power of 2 (or 32)

27 \*\* (1/3) - The 3rd root of 27 (or 3/27)

x += 1 - Assign the value of x + 1 to x

x -= 1 - Assign the value of x - 1 to x

#### LISTS

1 = [100, 21, 88, 3] - Assign a list containing the integers 100, 21, 88, and 3 to the variable 1

1 = list() - Create an empty list and assign the
result to 1

1[0] - Return the first value in the list 1

1[-1] - Return the last value in the list 1

1[1:3] - Return a slice (list) containing the second and third values of 1

len(1) - Return the number of elements in 1

sum(1) - Return the sum of the values of 1

min(1) - Return the minimum value from 1

max(1) - Return the maximum value from 1
1. append(16) - Append the value 16 to the end of 1

1.sort() - Sort the items in 1 in ascending order
" ".join(["A", "B", "C", "D"]) - Converts the list
["A", "B", "C", "D"] into the string "A B C D"

#### DICTIONARIES

d = {"CA":"Canada", "GB":"Great Britain",
 "IN":"India"} - Create a dictionary with keys of
 "CA", "GB", and "IN" and corresponding values
 of of "Canada", "Great Britain", and "India"

d["GB"] - Return the value from the dictionary d that has the key "GB"

d.get("AU", "Sorry") - Return the value from the dictionary d that has the key "AU", or the string "Sorry" if the key "AU" is not found in d

d. keys() - Return a list of the keys from d

d.values() - Return a list of the values from d

d.items() - Return a list of (key, value) pairs

#### MODULES AND FUNCTIONS

The body of a function is defined through indentation.

import random - Import the module random
from math import sqrt - Import the function

sqrt from the module math

def calculate(addition\_one,addition\_two,
exponent=1,factor=1):

result = (value\_one + value\_two) \*\* exponent \* factor return result

 Define a new function calculate with two required and two optional named arguments which calculates and returns a result.

addition(3,5, factor=10) - Run the addition function with the values 3 and 5 and the named argument 10

#### BOOLEAN COMPARISONS

x == 5 - Test whether x is equal to 5

x != 5 - Test whether x is not equal to 5

x > 5 - Test whether x is greater than 5

x < 5 - Test whether x is less than 5

x >= 5 - Test whether x is greater than or equal to 5

x <= 5 - Test whether x is less than or equal to 5

x == 5 or name == "alfred" - Test whether x is equal to 5 or name is equal to "alfred"

x == 5 and name == "alfred" - Test whether x is equal to 5 and name is equal to "alfred"

5 in 1 - Checks whether the value 5 exists in the list 1 "GB" in d - Checks whether the value "GB" exists in the keys for d

#### IF STATEMENTS AND LOOPS

The body of if statements and loops are defined through indentation.

if x > 5:

 $print("{}) is greater than five".format(x))$  elif x < 0:

print("{} is negative".format(x))

else:

print("{} is between zero and five".format(x))

 Test the value of the variable x and run the code body based on the value

for value in 1:

print(value)

- Iterate over each value in 1, running the code in the body of the loop with each iteration

while x < 10:

x += 1

- Run the code in the body of the loop until the value of  ${\bf x}$  is no longer less than 10

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## 3. Beginner's Python Cheat Sheet

This Python Cheat is from the Book Python Crash Course which aims to remind you of syntax rules and grasp all the important concepts in Python programming as a beginner.

You will also create a game with Pygame, Create Data Visualization with PyGal and build Web Apps with Django.

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## 4. Python Cheat Sheet for Data Science: Intermediate

This cheat sheet assumes you are familiar with the content of the Python Basic Cheat Sheet from Dataquest.

This Python cheat sheet provides in-depth focus on Lists,
Strings, Range, Dictionaries, Sets, Regular Expressions, List Comprehension,
Functions for Looping, DateTime, Random, Counter and Try Except.

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## 5. Importing Data in Python Cheat Sheet

This Python Cheat Sheet from Datacamp provides everything that you need to kickstart your data science learning with Python.

Moreover, you'll have a handy reference guide to importing your data, from flat files to files native to other software, and relational databases.

You'll also learn how you can get data from files native to other software such as Excel spreadsheets, Stata, SAS and MATLAB files and relational databases.

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## 6. Python NumPy Cheat Sheet

This cheat sheet assumes you are familiar with NumPy. If you're interested in learning NumPy, you can start learning about NumPy in Python Data Science Course from Dataquest.

This Python Numpy Cheat Sheet will make you familiar with NumPy Array and how you can Import and Export Data for analysis. You'll also index data and retrieve results, using NumPy with Scalar Math, Vector Math, and Statistics will hold no secrets for you any longer.

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## 7. Python Data Visualization: Bokeh Cheat Sheet

This Python Cheat Sheet will guide you to interactive plotting and statistical charts with Bokeh. Python Bokeh Cheat Sheet is a free additional material for Interactive Data Visualization with Bokeh Course and is a handy one-page reference for those who need an extra push to get started with Bokeh.

This cheat sheet will walk you through making beautiful plots and also introduce you to the basics of statistical charts.

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## 8. Python for Data Science: Pandas Cheat Sheet

Pandas is a data-centric Python package. It's common when first learning pandas to have trouble remembering all the functions and methods that you need, and it's nice to have a handy reference.

We hope this cheat sheet will help you out! If you are interested in learning, you can signup for free and start learning Pandas for Data Science Course offered by Dataquest.

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## Thanks for making it to the end ©

Share & Learn! Do add your favourite Python Cheat Sheet in the comments below.

You may also be interested in checking the list of Machine Learning Cheat Sheets in Python and Maths or listening to a Python Podcast to bootstrap your knowledge in Python.

If you liked this article, i've got few practical reads for you.

- Learning how to learn Python, Statistics and Maths for Data Science
- 7 Best (and Affordable !!!) Data Science Specializations
- 5 Must have Skills in Python for Every Data Scientist
- "I've also got this Data Science Newsletter that you might be into. I send a tiny email once or twice every quarter with some useful resource I've found.

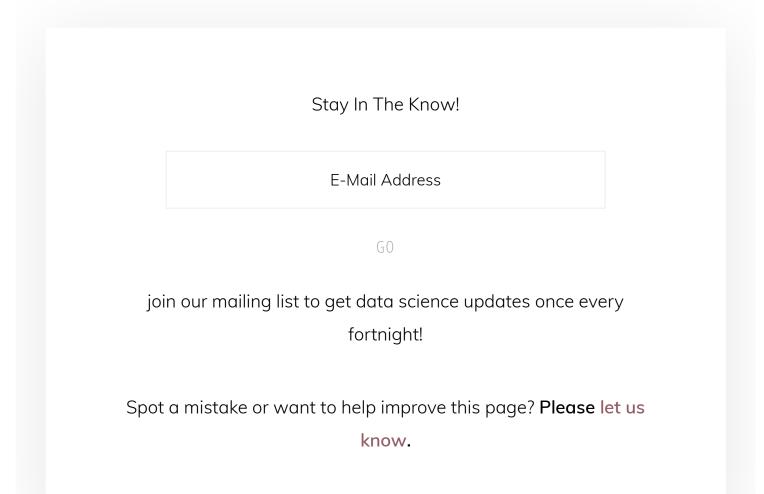
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