

PYTHON GUIDE

Are you trying to learn Python but aren't sure how to go about it?

Let's do a checklist: Have you succeeded in doing the following things in Python?

- Have you managed to download python to your computer?
- Have you managed to run a hello world script?
- Have you learnt Python Basics?
 - Have you learnt how to find the complexity of a script?
 - Have you learnt variables and scope of a variable?
 - Have you learnt keywords and operators?
 - Have you learnt about statements and indentation?
 - Have you learnt how to make comments and documentation?
 - Have you learnt Control Flow?
 - Looping
 - While
 - For
 - Conditions
 - Break, continue, pass
 - Have you written a script that manages to do something? (Check for palindrome, Fibonacci sequences, etc.)

- Have you learnt how to use modules and libraries?
- Have you learnt how to make libraries?
- Have you learnt how to install packages using pip?
- Have you written codes that contains methods?
- Have you written codes that contains classes?
- Have you learnt how to do exception handling?
- Have you written codes that contain functions?
 - Parameter, Argument
 - *args and **kwargs
 - Yield
 - Generators
 - Lambda
 - Decorators
- Have you learnt constructors and destructors?
- Have you learnt inheritance?
- Have you learnt encapsulation?
- Have you learnt RegEx?
- Have you learnt collections?
- Have you learnt Python Intermediate?
 - Have you learnt metaprocessing?
 - Have you learnt abstract classes?
 - Have you learnt multithreading and multiprocessing?
 - Have you learnt about sockets?
- Have you written codes that consists of multiple files referencing one another?

- Have you used codes with web framework?
- Have you learnt working with JSON files?
- Have you learnt working with CSV files?
- Have you learnt how to store data in database?
 - Offline
 - Web
- Have you learnt how to make executable files?
- Have you learnt Python GUI toolkits?
- Have you learnt how to make cross platform applications?
- Have you managed to make bots using automation libraries?
- Have you learnt how to do web testing?
- Have you learnt how to use important modules like os, time, sys, math, numpy, scipy, etc.
- Have you learnt how to put spreadsheets data in dataframe?
- Have you learnt data visualization?
- Have you managed to integrate the steps mentioned above into one project and create an application?

{Additional: Try ML in Python}