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Founder of Chaptr Global Pioneering Agreements to Share Revenue for Technology Education in Emerging Markets

Ew Python? Or are you an experienced developer who wants to enhance and promote your Python knowledge? We've put together a bullish package of recommended resources for those who want to learn Python programming. We have adapted these resources to be suitable for Python developers at all levels, but these resources will be most applicable to those that are still in the early stages of learning or are already familiar with the basics, but not very advanced. Learning Pathway

First, let's look at the perfect Python Path - what's your way from beginner to advanced and what areas of career focus are available with Python. Learn Python Basics: As with any language, first, you need to understand the basics, from Python syntax to Python PEP-8 conventions and know how to use language. Here you'll explore the variables, expressions, operators, conditional, loops and data structures of Python. After learning the basics of Python, you should start practicing with mini-project scenarios. Become Advanced with Python: Here you will strive to add usefulness to your Python knowledge. Learning how Python interacts with web data (Web Scraping ability is one of the biggest results here), how to use Python for object-oriented programming, and finally how to integrate Python with databases (databases, NoSQL databases, and API) Focus on career paths: Now, you've advanced in a language that will include immersion in Python libraries and frames that are specific to a particular career path. Here are some of the common ways for Python Developers and some of their respective libraries/framework: Web development - Django and Kolba Frameworks are most popular for web design tasks and projects with Python Data Science - Learn how to conduct Sourcing data, data analysis and machine learning (ML) with Python. Libraries to learn include: Numpy, Matplotlib, Panda, SciPy and SciKit Learn ml among others. Machine learning and artificial intelligence is a popular career path as artificial intelligence continues to gain strength in our lives. Some leading libraries to learn are SciKit Learn, Tensorflow, Keras, Natural Language Toolkit (NLTK), PyTorch, Theano, etc. Graphic User Interface (GUI) Programming - With GUI libraries such as Tkinter, wxPython, PyT and Kivy you can create graphics applications with Python. Game Development - Although not many developers end up in game development, this is probably one of the most interesting ways to explore. To create games, PyGame is a library to learn. In addition, it is recommended to study the controls of versions (Github is the ideal choice), algorithms of the python data structure (efficiency it matters) combining software development with IT operations in companies). There are also tons of pre-installed Python libraries and community-designed packages, not necessarily tied to a career path, worth learning to perform certain tasks or just for fun (reason why not?). My personal favorite is selenium to automate the browser. Any career path or recommended library that you think we've left behind? Throw a comment at the end of this article!

Step 1: LEARN In this section, I have detailed all the resources you need to explore Python. You can use these resources to teach yourself To Python from scratch or supplement any Python: Tools for Python Development Your first step before even learning a language should be choosing IDE and setting it up. Here you will write and execute your Python code. Here are the best IDEs to consider: Visual Studio Code is the most popular IDE not only for Python, but also for numerous programming languages. This, of course, VS Code is something I use from day-to-day Jupyter laptops - if your goal takes the path of data science, then look no further than Jupyter. This has become the industry's standard data tool For Scientists Other's top options worth considering are: PyCharm, Atom, and Spyder You can download and install selected IDE yourself, however, I recommend using Anaconda which comes complete with VS Code, Jupyter, and Spyder, even RStudio for data science purposes. Test Runner As a beginner, you'll probably want to delve into learning the basics before you get into testing. However, a test run is very important to make sure that all elements of your program work according to the design. At Python, we use the following library/test framework: Unit Test - Built-in Python, it's extremely popular throughout the Python community Nose - This structure is wrapped around the unittest to add more functionality to testpytest - Many Pythonistas currently use py.test over unit, given its simple syntax Deggerbu As you learn Python and start practicing, bugs will be fairly common and identify them quickly. No more! Today, all you have to do is copy-paste your code on Python Tutor to visualize its execution and help you identify an error or problem. Some alternative debugging are Python Debugger (PDB (Python Module) and Internet GDB. Recommended Python Learning Guides Learn Python with well-structured websites covering at least all the basics: Learn by reading detailed Python books or PDF Publications: Gauge Your Python Knowledge Already deals with Python and would like to test your knowledge? We recommend using general interview questions to assess your knowledge. After all, these questions give you an overview of what the industry needs you to know: Curu99 - Top 40 Python Interview Questions and Answers EduReka - Top 100 Python Interview Questions Must prepare in 2020 DataFlair - 150 Python Interview questions and answers for Freshers Step 2: PRACTICE It goes, not to mention - Don't learn coding without practice! But, the big challenge is actually finding designs suitable for your level that would better check out and let you put your skills into practice. That's why we've divided these projects into beginner, intermediate, and advanced levels: most of these projects were inspired by Data Flair - Python Project Ideas for 2020. To understand the project, you can simply do a Google search or visit the Data Flair link to get a brief description. Star projects require a graphical user interface that will be performed while projects with Rec. are the ones that I recommend to try for the ultimate practice and fun engagement. I also sought to try all these projects and make them available on the Chaptr Github account. 3 project repositories will be added each week for the next 10 weeks. Contributions are open! Have you already done any of these projects? Or, do you have other project ideas worth mentioning? Throw a comment at the end of the article with a link github Repo or Project Idea. Step 3: ENGAGE! As! You're no longer a casual beginner, you're confident in your skills, and you've probably started to populate your Github portfolio with some inspiring Python projects. You have also begun to master additional libraries to shape your career path. It is time to continue With Python's involvement and continue to develop its competencies. Here are some ways to achieve this: Get certified - Python Certification is not usually a fan of certificates, but in most countries employers are still blinded by these traditional standards of competency. However, on a positive note, reliable certificates test your competence well and best help you know whether you are set to work in the industry. Here are two organizations: Best for Python Certification Competence: Python Institute (Open Education Development Group) Offers 4 Certification Exams at 3 Competency Levels: Entry - Certified Entry-Level Python Programmer Certification Associate - Certified Employee in Python Programming Certification Professy Resident - Certified Specialist in Python Programming 1 Certification and Certified Specialist in Python Programming 2 Certification You can study the following Certificates: MTA - Microsoft Technology Associate MCSA - Microsoft Certified Solutions Associate MCSD - Microsoft Certified Developer Beware Solutions that Microsoft is conducting a major certpocalypse (Certificate of Apocalypse) and some of these certification exams will no longer be offered next year, but after certification, whether it is Not the program is out of service, certification will be valid and active for 2 years as usual. Keep learning - Top Python Blogs One of the best ways to keep your interaction with Python will be through Python Blogs and Vlogs. Below are the blogs you should definitely see. They are all pretty consistent on the placement and tons of Python content at everyone's disposal: Stay in touch - Popular Community Python Finally, it's time for you to interact further with the global Python community and even start contributing. Some of the popular communities for Pythonistas are: Python - official Reddit for Python News, Content, and Resources Python Weekly Python Newsletter to subscribe to ThePySlackers - Slack Open Channel for Python Enthusiasts Conclusion and Next Steps Now, Python Now, Developer You! So, what career path do you want to take? Data science, machine learning and artificial intelligence, game development, web development, etc. Now you can easily chart your way based on your interests and career goals. Do you have ideas of interesting Python resources that have been left out? Have you used and received from any of the resources above? Throw the comment below and let others find out what works for you or what other resources might be using it. I will also be releasing detailed resources on The Science Career Path as well as other popular career paths of Python. Subscribe or follow this post to get a notification. To learn about Chaptr Global and our new technology programs, visit our homepage. Previously published to get daily preparations of top technology history! History! python cheat sheet for beginners pdf. cheat sheet python 3.7 for beginners. python 3 cheat sheet for beginners. cheat sheet python 3.7 for beginners pdf. python for data science cheat sheet for beginners

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