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Should i learn python in 2020

If you're interested in learning to code in the programming language JavaScript, you might be wondering where to start. There are many learning paths you could choose to take, but we'll explore a few jumping off spots here.What is JavaScript?JavaScript is a web-based, object-oriented programming language, commonly used in conjunction with HTLM5 and CSS to create modern interactive websites and effects. Code written in JavaScript runs inside a web browser, and isn't used in stand-alone applications or computer programs. Java — a language that is similar by name but only somewhat related to JavaScript — is used to create code that can be executed outside a web browser. If you're seeking to become a web developer, JavaScript can be a useful tool to learn. Now we'll look at some classes that teach this programming language.JavaScript Introduction by edXFor complete beginners, you might start off by exploring the online "JavaScript Introduction" MOOC class, offered by edX and provided by The World Wide Web Consortium. This class is self-paced with few prerequisites, and introduces students to several concepts; according to the class page, these include:How to add JavaScript (JS) code in your Web site/Web app, how to debug it How to make interactive Web sites through the DOM API How to change the CSS styles of HTML5 elements from JavaScript How to deal with HTML5 forms How to make basic graphics and animations using the HTML5 canvas How to use the basic concepts of ES2016, the last iteration of the language: arrays, functions, loops, basic objects Programming for the Web with JavaScript by edXAnother offering from edX is the online class "Programming for the Web with JavaScript," and provided by the University of Pennsylvania. Another self-paced class that should take about four weeks to complete, the class webpage indicates that students will learn:The basics of how the World Wide Web allows browsers to send and retrieve web content Web browser internals, the Document Object Model (DOM), and jQuery How to create dynamic, interactive web pages using JavaScript Techniques for creating data-driven websites using modern web technologies Client-side JavaScript libraries and frameworks Server-side JavaScript application architecture, middleware, HTTP, and RESTful API design Programming Foundations With JavaScript, HTML and CSS by CourseraCoursera.org provides several JavaScript training options, including the "Programming Foundations with JavaScript, HTML and CSS," offered by Duke University. This course teaches some overall programming basics along with web-development concepts, including:Designing a Web Page with HTML and CSS Algorithms and Programming Concepts JavaScript for Web Pages Intro to JavaScript by UdacityThe "Intro to JavaScript" from Udacity page tells students: "Learn the fundamentals of JavaScript, the most popular programming language in web development." The two-week, free course aimed at beginners teaches:What is JavaScript?" Data Types & Variables Conditionals Loops Functions Arrays Objects MORE FROM QUESTIONSANSWERED.NET Published: October 1, 2020 How long does it take to learn Python? You can learn the basics in as little as a week or two. Having a solid grasp of the basics (variables, functions, for loops, if-else statements, etc.) can be enough to help you solve problems at work or write simple scripts. If you aspire to work with Python full-time, you'll likely need to study for at least a few months. This is a complicated question, though, so let's dig in and unpack it in a bit more detail! Is Learning Python Worth It in 2020? Yes. Python developers are in demand across a variety of industries, but the Python market is particularly hot in the world of data science, where Python is used for everything from basic data analysis and visualization to creating advanced machine learning algorithms. Indeed.com's HiringLab investigated tech skills trends in early 2020 and found demand for Python skills in data science was up 128% over the past five years, and grew 12% over the course of 2019! Data analysts, data scientists, and data engineers with Python skills can earn salaries well over $100,000 per year in the United States, and these types of roles enjoy far-above-average salaries in most other parts of the world. From a financial perspective, investing in learning Python is almost certainly worth it. How Long Does It Really Take To Learn Python? The answer to this question depends on what your goals are. Very few people learn everything about Python. Python is a tool, and you learn how to use it in the context of the problems you're trying to solve. For example, if you're a marketer who'd like to analyze Google Analytics data more rigorously, you could learn the fundamental syntax of Python and the pandas techniques you'd need in a matter of weeks. This wouldn't make you a job-qualified Python developer or data analyst, but it would be enough to solve your problem. If you're learning from scratch and looking for full-time work using Python, you can expect to spend at least a few months studying part-time. How many months will depend on the job you're looking for. Working through our Data Analyst in Python course path, for example, would get you ready to apply for jobs as a Data Analyst. Most learners take at least three months to complete this path. To be clear, though, you could probably spend a lifetime learning Python. There are hundreds of libraries, many of them regularly improving and evolving, and the language itself also changes over time. It doesn't take too long to reach a point of being able to solve problems with Python, but to being a Python master means continually learning and growing over the course of your career. Why is Python in Such High Demand? There's an inside joke in the Python community that Python is the second-best language for everything. What's best is subjective, of course, but Python is incredibly flexible. It is the most commonly-used language for data science (R is a close second), and it's also frequently used in a number of other industries. One reason for its widespread popularity is that it is one of the easier languages to learn and use when working with data. And, fortunately for employers and data scientists alike, it doesn't require years of long study hours to master. Can You Teach Yourself Python? Yes, it's very possible to learn Python on your own. There are a wide variety of learning resources available on the web to help you learn Python for everything from game development to robotics. Here at Dataquest, we've helped thousands of students learn Python and get jobs in data science, all on their own schedule, from the comfort of their own homes. Teaching yourself Python does take time, though. You also have to be sure that you're writing code and applying what you learn in real-world scenarios, rather than just watching lecture videos and answering multiple-choice questions. Taking the right approach to learning Python can also be the difference between success or failure when you're learning through self-study. Is It Hard to Learn Python? Python is considered one of the easiest programming languages to learn. However, that doesn't mean that it's easy! While anyone can learn Python programming — even if you've never written a line of code before — you should expect that it will take time, and you should expect moments of frustration. Do I Need to Be Good at Math to Learn Python? Nope! While the conventional wisdom has long been that having natural talent for mathematics makes learning programming easier, a recent study suggests that's not the case. In fact, if you've learned a foreign language, you might actually find it easier to learn Python than a "math person"! As we've said, though, anyone can learn Python. We've seen learners with a wide variety of backgrounds work through our courses and succeed, so don't let your own background stop you from giving Python a try! Should I Learn Python 2 or Python 3? You should learn Python 3. While some outdated learning resources still teach Python 2, this version of the language is no longer supported, and security vulnerabilities will not be patched. You should learn the most up-to-date version of Python, which is Python 3. What Can Learning Python Do For You? Here are 3 reasons you should start to learn Python for your work life, personal life, or both: 1. It Allows You to Automate Tasks Python is a versatile programming language, which means there's something in it for everyone. Once you learn Python, you'll be able to work with massive data sets easily if that's your thing. You'll be able to scrape data from the web and access APIs if that's what you need. You'll be able to use it to power-up your work in Excel if you work regularly with spreadsheet software. And you'll be able to automate all sorts of tasks. Learning to automate tasks on your own can be incredibly powerful, because your time is valuable! Let the robots send your emails and fetch data from the internet. And if you're feeling extra ambitious, you can even create the next coffee delivery app so you can easily get your caffeine fix every morning. (That may take a little bit more work, though.) More likely, you'll be able to start finding creative solutions for the people and companies you work for. When you learn Python, you are literally learning a new language that is built on identifying and predicting patterns – and as you find patterns, you'll be able to communicate those findings in a way that makes a big impact in your workplace, industry and world. 2. You Can Impress Your Boss Learning Python is also a great way to impress at work (or get that promotion you've been vying for). To those who can't code, the ability to program sometimes seems like a superpower. Programming gives you the ability to leverage your knowledge and multiply your output. With it, you may able get ten times as much work done in the same amount of time. As mentioned above, when you learn Python, you'll be able to gather data quickly and "translate" those numbers to real-world solutions. For example, in a business setting, you could add value by doing things like web scraping, sending emails automatically, or even analyzing supply chain production to find missed opportunities for cost savings and/or quality control. If your boss has mentioned that understanding data science could help you move toward your career goals, a self-paced course that helps you learn Python online could be the perfect way to balance a career and personal development. 3. It Creates Exciting New Career Opportunities If you're looking for an entirely new career or maybe aren't feeling fulfilled in your current job position, you've come to the right place. Demand for Python programmers, especially in the data science field, has been higher. Data science is a rewarding field, and it pays exceptionally well. A typical entry-level Data Analyst salary is around $65,432, and Data Scientist salaries can reach well over $100,000 a year. These opportunities are sometimes available remotely, so you can work from anywhere for a US company without being tied to a US location. Data science is a relatively new field, and with that freshness comes modern hiring practices. An emphasis on understanding your craft and being able to drive results is slowing beginning to trump the need for a 4 year degree and an office down the hallway. We've seen many of our alumni find rewarding careers (either in an office or remotely) after completing our Data Science paths. In fact, our courses are structured to help you leave with a leg up on the job hunt. You'll have experience working with real-world data and a portfolio full of finished data science projects. For a lot of human resources offices evaluating your resume, this can be far more important than your degree. How Can I Learn Python Faster? If you're learning Python on your own, creative time-management habits will be very helpful — especially if you want to learn Python sooner rather than later. While 5 hours may seem like a lot to fit into your already-busy weekly schedule, it's very achievable for someone working a full-time job or with a full calendar of school commitments. Here are a few ways you might find the spare hours: 1. Set Your Alarm Clock for 30 Minutes Earlier The best time you can set aside to learn Python each day is in the morning. Biologically, your best, most productive time is around the first two hours of each day. You don't want to sacrifice any sleep, but you may want to get to bed earlier so you can practice a bit before work. It's a commitment, for sure. But, if you set aside your clothes the night before, have your coffee ready to go and already know what aspects of Python you are going to work on, it's a bit easier. Tell yourself that you can't look at your phone or emails until you dedicate 30 minutes toward learning Python and make it a habit! The time it saves and the advancement in your career will be worth the extra effort. As an added benefit, you'll feel extra healthy when you get a productive head start on your day. You may even surprise yourself – lots of people who think they are just 'not morning people' find after getting enough sleep each night that it was only a matter of shifting the hours around and building some healthy habits. It feels pretty cool to say, "I stayed up all night coding." But a lot of those times we overestimate our productivity – you don't get nearly as much done or retain as much information when you're tired. When you look at the numbers with fresh eyes, you can absorb what you learn much better! 2. Log Off Your Evening Netflix Habit If you already wake up at 5 am to get to work each day, waking up earlier may not be the best option for you. In that case, you might take the first 2 hours when you get home from work each day to learn Python. If you are overwhelmed with the idea of finding 2 hours between your commute, gym, dinnertime and downtime, spend a week really looking at how your spend your evenings. Write down what you did each day this week – how much time did you spend binging Netflix? Did you waste a few hours on social media (be honest)? Did you get lost scrolling through Amazon? Can you prep your meals on Sunday to cut back on weeknight cooking? Leave the Fortnite battle bus behind for one night and remember those reasons you wanted to learn Python to begin with. Or, you can bookend your day with data science. After reserving your morning hours for your most important projects, you can review your work or participate in forums before bed to help your mastery. 3. Take Advantage of Quiet Saturday Mornings We've seen that practicing every day is the best way to learn Python. For the students who have mastered data science principles the quickest, that includes some weekends. It's important to be as consistent as possible, but sometimes life gets in the way. That's what weekends are for. If you're completely booked from 5 am to 6 pm every day, you can keep yourself on track by putting in extra hours on the weekend. Plus, this is a great way to find uninterrupted time in a space you've dedicated just for learning python. Tie it to something rewarding — a walk through the park, a sandwich from your favorite coffee shop — to make your Python study time something that you look forward to! One thing to keep in mind: studying two hours a day is far better than 10 hours in one day on the weekend. If you have other commitments during the week, even 10 minutes each morning will make a difference compared to only looking at Python materials once a week. 4. Join A Community of Python Programmers Joining a community of Python developers will help you stay on track toward your goal to learn Python. Python meetups are fairly common on Meetup.com, and you'll get recommendations from other members of these groups. Additionally, Dataquest's students use our Members community to network and discuss Python problems, troubleshooting, and data science portfolio projects. If you carve out a few minutes each day for connecting, you'll complete your coursework with a new skill and a new network as you enter the job market! 5. Compete on Kaggle Kaggle hosts data science competitions. Signing up is free, and members submit Python scripts to find the best fit model for a given dataset. You'll find a lot of competitions with objectives similar to the guided projects in your Dataquest portfolio. If you're one of those Fortnite fans we mentioned above, collaborating with other Dataquest students on Kaggle competitions can help replace some of your game time in a way that helps you learn Python without losing that competitive fix! 6. Read Python Books There are many guides written for general and specific applications of Python, and we've highlighted a few that you can read without paying a dime, as long as you don't mind scrolling through digital copies. You can use these books to supplement your Dataquest courses, where you'll learn this information and more, specifically tailored to data analysis and data science. This is perfect for students who want real-world context for the skills they learn in our data science paths. Ready to Learn Python At Your Own Pace? All data scientists have tips and tricks that helped them along the way. Some people may boast that they've learned Python in merely a month, while others take several years to reach the level of mastery that they're looking for. Be gentle with yourself and allow yourself the time to learn Python at the pace that works best for you. It's better to take a little extra time than to rush through everything without building a solid foundation in the fundamentals! Having great instruction in the basics of Python will help you automate your life and work, excel in your current job, or enter a new one. Dataquest's interactive courses offer instant hands-on learning and a community of fellow students who will help you on your journey. If your goal is to not only learn Python for data science, but to truly master it, Dataquest is the place for you. By the time you're finished with our free lessons, you'll already be well on the path to learning Python. Get started today on our Data Scientist path completely free, and you'll have your first lines of code finished in minutes! Get that next raise or to switch to a career in data science by learning data skills. Sign up for a free account and try our interactive courses in Python, R, SQL, and more! Tags About the author Charlie Custer Charlie is a student of data science, and also a content marketer at Dataquest. In his free time, he's learning to mountain bike and making videos about it.

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