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Python programming language pdf download

(Image credit: Shutterstock / Elle Aon) Python has once again emerged as the programming language of the year. In the latest survey from programming watchdogs TIOBE, the honor is awarded to the programming language that has gained the most popularity in the past year - with Python clinching the title for a record fourth year thanks to a usage jump of 2.01%. Close on the heels of Python was C++, which recorded a jump of 1.99%, followed closely by C with 1.66%. The TIOBE index ratings are updated every month based on a variety of parameters and are a good indication of the popularity of programming languages. Numbers game! Despite recording the maximum gain, Python actually slipped down a spot in the overall rankings. Back in November 2020, the language had toppled Java for the second spot on the podium. However, in the latest January 2021 rankings, Python has slipped back to the third spot behind Java. Meanwhile, C has once again become the most popular language for the month of January 2021. With a rating of 17.38%, the general-purpose, procedural computer programming language remains a favorite with developers, despite being in use for almost five decades. TIOBE also highlighted the entry of two new languages in the top 10 after recording massive jumps in popularity. The first is the statistical language R that jumped from the 18th position to the 9th spot overall. It is followed by Groovy, the Java-syntax compatible scripting language, which has made the leap from position 23 to number 10. The company also noted the emergence of the Julia programming language, which jumped from the 47th position to 23rd position in the space of 12 months, and expects it to break into the top 20 in 2021. Hone your programming skills with these best Python courses via: TechRepublic (Image credit: Kevin Ku / Pexels) The three most popular programming languages are Java, JavaScript and Python but a new survey from JetBrains has revealed that Java has retained its top spot among developers. To compile its new State of Developer Ecosystem 2020 report, the IDE maker surveyed almost 20,000 developers to identify the latest trends when it comes to programming languages, tools and technologies. While Java remains the most popular programming language around, JetBrains found that JavaScript is the most used language. As part of its fourth annual Developer Ecosystem Survey, the company asked developers to choose up to three languages that they consider to be their primary programming language. Although Java is the most popular overall, in this context JavaScript took the top spot at 39 percent followed by Java (37%) and Python (31%). In an interview with The Register, JetBrains said that one of the reasons Java is the most popular programming language is because a lot of developers use JavaScript as part of a project. However, while they use JavaScript in their projects, developers don't spend most of their time working with it. JetBrains' report also showed that Python has managed to overtake Java when it comes to languages used in the past year. The growth of machine learning is one of the reasons behind this and Python was actually the most-studied language according to developers with almost a third of respondents beginning to or continuing to study it last year. Developers are also increasingly using Microsoft's TypeScript to work with large JavaScript codebases. Use of the programming language has grown significantly and in fact, it is now the primary language of for 12 percent of developers. When it comes to adopting new languages, developers plan to adopt Google's system programming language Go, JetBrains' Kotlin and Python. Mozilla's system programming language Rust came in fourth place on the list of planned languages followed by TypeScript, Apple's Swift and Google's Dart. We've also highlighted the best laptops for developers via ZDNet. Learn how to maintain an edge over the competition by becoming an expert on the top programming languages for your career. It's a new year, which means fresh goals. For developers, a new year is an opportunity to learn or brush up on programming languages and their dialects, software frameworks, and tools. However, knowing what to learn and when can be difficult, particularly when new software frameworks and tools are created every day. SEE: The best programming languages to learn--and the worst (TechRepublic Premium) Further, knowing which programming language is best suited to help you as a developer requires a clear understanding of what each language is capable of and why they are typically used. Download this article and thousands of whitepapers and ebooks from our Premium library. Enjoy expert IT analyst briefings and access to the top IT professionals, all in an ad-free experience. Join Premium Today The following ebook: The best programming languages to learn--and the worst from TechRepublic Premium will give you an overview of how different programming languages are used, their strengths and weaknesses, and which programming languages are the most popular (and the least popular) in different career trajectories and why. JavaScript, Java, and Python are among the most sought-after programming languages from hiring managers when recruiting new developers, according to a new survey from programmer training company CodinGame. According to TIOBE, Python was awarded its top programming language of the year for a record-setting fourth time. TIOBE explained that it awards the annual title "to the programming language that has gained most popularity in one year." SEE: The best programming languages to learn--and the worst (TechRepublic Premium) Of course, just because a programming language is popular doesn't mean it's the best language for you to learn. For example, the best programming languages that cloud engineers need to learn may differ from the best programming languages network architects need to know to better understand the job's landscape to design secure and scalable networks. This ebook provides detailed recommendations about specific programming languages that languages application solutions developers, network architects, network admins, systems admins, data admins, web developers, data scientists, mobile app developers, security admins, and Internet of Things (IoT) developers need to learn to maintain an edge over the competition. Just because a programming language surges in popularity one year, doesn't mean it can't fall from grace the next. What are some of these hated programming languages? Find out in the ebook The best programming languages to learn--and the worst. When you start reading this, I'm assuming you don't know much about programming and you're highly curious about why you need to learn a new language when you're not aware of why you actually need it. Here I'm giving you 6 reasons for you to learn a new programming language. Maybe you're someone who doesn't belong to a CS background. Or, you've never learned a programming language before or you don't have any reason to learn. But you can feel the vibe around yourself and feel argued to know about programming. If so, sit back, hold on, let me take you on a journey. Here are the reasons why you should know at least one programming language. 1. To Understand Where You Spend Your 28,300 Hours We give the biggest piece of our pie to our virtual life. The whole virtual thing is made with code. To understand how things are being made, you've to know the basic knowledge of programming. An average human being spends 28,300 hours on the internet in his/her lifespan. Don't you ever feel like you need to know at least the introduction of the whole virtual thing? I'm sure the answer is big YES. There is no harm in knowing things out of your box. Programming is a box of surprises...you don't know what you will get from it. 2. To Make Yours & Everyone's Life Easier Most of the tech things are made to make our lives easier. Most of us take the user's perspective only. But, you too can create amazing things using programming. Such as, making an automated text reply whenever you're offline. At first look, it seems a complex thing but it's not. In fact, you don't need to write every line of code, you just need to understand what line means what and how these works. Then you can easily build any program for anything you need. I made a program for Automating WhatsApp with 15 lines of Python Code which made my life easier. 3. To Create New Things if You're Creative Every machine you use, from your mobile to your electric guitar... everything needs programming to be operational. Programming is blended with our life in this way. So, whatever your passion is, you can make new things using programming. I'm a photographer by passion, I've made my own portfolio website for myself using programming knowledge. From musicians to lawyers, everyone can show their creativity when they know a programming language. 4. To Make Your Resume Shiny There is no harm in adding something new in your Resume right? So, why not add programming as your extra skill? Knowing a programming language can make your CV stand out from others. It indicates that you're a person who is never afraid of learning anything out of the box and not afraid of taking any challenge. Also, it shows you're up-to-date with modern technology. 5. To Enhance Your Problem-Solving Skills Programming gives you more than just a skillset. It increases your skill of problem-solving and also helps to enhance your patience level. You may not feel in the first place, but in the future, it'll impact every section of your life. 6. For Career Opportunity and Flexibility 2020 is full of surprises. The job market is completely changing due to COVID-19. Many professions are being dissolved and people are trying to reach new opportunities to survive. So, there is no guarantee that your profession will survive for the next 30 years. It's a wise decision to keep another option open. BONUS To Hack Your Crush's Facebook Account. @Final Words We are afraid of what we don't understand. Starting to learn a new language can change your perspective towards programming. Maybe you can find your passion here. Or maybe you'll create your legacy. You never know. Stepping out of your comfort zone is the start of a new, fruitful beginning. Join Hacker Noon Create your free account to unlock your custom reading experience.

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