



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 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 competitionJust 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 HoursWe 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 share 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 CreativeEvery 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 ShinnyThere 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 SkillsProgramming 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 Flexibility2020 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. BONUSTo Hack Your Crush's Facebook Account. Final WordsWe 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. A programming language is a vocabulary and set of grammatical rules for instructing a computer or computing device to perform specific tasks. The term programming language usually refers to high-level languages, such as BASIC, C, C++, COBOL, Java, FORTRAN, Ada, and Pascal. Each programming language has a unique set of keywords (words that it understands) and a special syntax for organizing program instructions. High-Level Programming Languages High-level programming languages, while simple compared to human languages, are more complex than the languages the computer actually understands, called machine languages. Each different type of CPU has its own unique machine languages and high-level languages are languages called assembly languages. Assembly languages are similar to machine languages, but they are much easier to program in because they allow a programmer to substitute names for numbers. Machine languages consist of numbers only. Lying above high-level languages called fourth-generation languages (usually abbreviated 4GL). 4GLs are far removed from machine languages and represent the class of computer languages closest to human languages. Converting to Machine Language you use, you eventually need to convert your program into machine language so that the computer can understand it. There are two ways to do this: 1) Compile the program.2) Interpret the program. Recommended Reading: See compile and interpreter for more information about these two methods. The question of which language is best is one that consumes a lot of time and energy among computer professionals. Every language has its strengths and weaknesses. For example, FORTRAN is a particularly good language for processing numerical data, but it does not lend itself very well to organizing large programs. Pascal is very good for writing well-structured and readable programs, but it is not as flexible as the C programming language. C++ embodies powerful object-oriented features, but it is complex and difficult to learn. The Top Programming Languages? According to IEEE Spectrum's interactive ranking, Python is the top programming language of 2017, followed by C, Java and C++. Of course, the choice of which language to use depends on the type of computer the program is to run on, what sort of program it is, and the expertise of the programmer. Image: IEEE Spectrum Interactive Ranking (2017) Instructables is a community for people who like to make things. Come explore, share, and make your next project with us!Instructables is a community for people who like to make things. Come explore, share, and make your next project with us!Instructables is a community for people who like to make things. Come explore, share, and make your next project with us!Instructables is a community for people who like to make things. things. 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