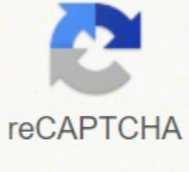




I'm not robot



Next

How to learn basic computer programming language

Computer programming is the process of writing instructions that get executed by computers. The instructions, also known as code, are written in a programming language which the computer can understand and use to perform a task or solve a problem. Basic computer programming involves the analysis of a problem and development of a logical sequence of instructions to solve it. There can be numerous paths to a solution and the computer programmer seeks to design and code that which is most efficient. Among the programmer's tasks are understanding requirements, determining the right programming language to use, designing or architecting the solution, coding, testing, debugging and writing documentation so that the solution can be easily understood by other programmers. Computer programming is at the heart of computer science. It is the implementation portion of software development, application development and software engineering efforts, transforming ideas and theories into actual, working solutions. Learn Computer Programming Online with Online Courses and ClassesedX offers a plethora of classes targeted to new and beginning coders. These introductory classes provide a step by step tutorial on how to code using your favorite language. Harvard's CS50's Introduction to Computer Science, an entry level course, teaches you how to think algorithmically and solve problems efficiently. Topics include basic concepts in abstraction, algorithms, operating systems, data structures, encapsulation, resource management, security, software engineering, and web development using languages such as C, Python, SQL, and JavaScript plus CSS and HTML. Problem sets are inspired by real-world domains of biology, cryptography, finance, forensics, and gaming. Learn to code with online computer programming coursesComputer science is the most popular subject on edX and there are outstanding programming courses from top universities and institutions including Harvard, MIT, Microsoft and W3C available to help you get started. Start with an introductory course in computer science such as Harvard's popular CS50 or MIT's Introduction to Computer Science and Programming Using Python to learn key concepts and fundamentals. IITBombay also offers self-paced beginner courses in programming including Programming Basics and Object-Oriented Programming that focus on logical thinking and programming best practices. Online certificates are available for all courses and some, such as Arizona State University's Programming for Everyone: Introduction to Programming, offer the ability to apply for college credit. Next, dive into different computer programming languages. Programming tutorials and courses are available to introduce you to coding in Java, JavaScript, Python, HTML, R, C++ and many more. Discover the similarities between different languages and gain an understanding of which language is the right one for a particular task. Want to go further? Enroll in an advance MicroMasters program to build on your knowledge and experience. Online computer courses are available in software development and testing and provide advanced training designed to jumpstart a computer programming degree or master's degree in the field. Jobs in computer programmingA skilled and experienced computer programmer can essentially write their own ticket. There are thousands of open jobs in programming and related fields. For example, a search for available positions for Java programmers on Indeed.com at the time of this article had over ten thousand results. And that's just in the United States. People wishing to enter the world of computer programming can choose to specialize in any number of popular programming languages and find many entry-level opportunities. Get started as a junior programmer in the language of your choice and gain the experience and skills to move up the ladder to software engineer or even Chief Technology Officer. Explore a career as a computer programmerTake a beginner course in computer science or any number of programming languages and see if this exciting, in-demand field is right for you. Introductory, self-paced courses are available now to help you learn to code in many different languages. Enroll and start learning today. Whether you are looking to accelerate your career, earn a degree, or learn something for personal reasons, edX has the courses for you. Download Article Download Article Programming is lots of fun and extraordinarily useful. It allows you to be creative and also opens up a wide range of new careers for you. If you want to learn how to program, read the tutorial below for an explanation of where to go and what to study. 1 Choose a programming language. Computer programming is done as essentially a set of written instructions that the computer follows (also known as binary coding). These instructions can be written in several different "languages", or which are simply different ways of organizing the instructions and text. Different languages tend to be used to create different types of programs, however, so choose a language that you feel is relevant to what you want to do.[1] If you decide that a language does not suit your needs, you can always move on to a new language.[2] 2 Consider C, C++, C#, and related languages. These languages are mainly used for creating standalone computer applications such as games. C and C++ are difficult languages to learn for a beginner, but not impossible. Learning them will give you an in-depth understanding of not only programming (most programming languages inherit some concept or the other from C and C++) but also of how a computer works. They are popular and widely used, though C#, a language very similar to Java, is starting to become much more common.[3] Advertisement 3 Consider Java or JavaScript. These are good languages to learn if you want to work on making web plugins (JavaScript) or mobile apps (Java). These languages are very much in demand right now, so they are handy to know. Keep in mind that Java and JavaScript are completely different languages, despite the similarity in names.[4] 4 Try Python. Python is a very versatile language used widely across several platforms.[5] Despite being extremely powerful, it is an easy language for a beginner to pick up, so give it a try! 5 Consider PHP. PHP stands for PHP: Hypertext Processor. It is a web programming language and relatively easy to learn due to its weak typing and popularity (popularity means there will be several useful tutorials on the language). It is a great language for server-side programming.[6] 6 Don't limit yourself to these languages! There are tons of programming languages, all with varying uses. If you want to work as a programmer, you will need to know more than one, so learn as many as you can. Your best bet will be to look at ads for the sort of jobs you want to get and look for the common languages that they ask for. Advertisement 1 Think about going to school. While most companies hiring a programmer will care more about your skills than the college you went to or your grades, it greatly helps to have a college degree to point to. You will learn more efficiently than if you teach yourself, all while getting expert guidance from your teachers (and maybe your friends).[7] There are often scholarships and grants available to those doing degrees in this field. Don't feel intimidated by the price tag of a degree: it is possible! 2 Learn from online universities. Whether you do an online degree with fees and an actual degree at the end or you're attending a free program like MIT's wonderful Coursera, you can learn a lot about programming from these structured courses. 3 Try using online tools. Use free services like Google's University Consortium or Mozilla's Developer Network to learn more about programming. These companies want more developers to help their platforms flourish and their resources can be some of the best on the web. 4 Learn using online tutorials. There are loads of programmers with websites where they will teach you the individual basics, as well as a few tricks. Look up tutorials on the language you want to learn to learn to find these. Many free online classes are available to learn to code from. The Khan Academy teaches computer coding, with easy tutorials and videos. Codecademy is another free site to learn from, with step-by-step tutorials. 5 Start young if you can. There are several programs designed to teach kids to program. Programs like MIT's Scratch are very helpful and the younger you are, the easier it will be to pick up (like any language). Avoid kits, as these rarely teach anything useful. Advertisement 1 Start with a good book or tutorial on programming. Get a good, current book on the programming language you want to learn. Reviews on Amazon or similar sites will usually help you identify helpful books from unhelpful ones.[8] 2 Get an interpreter for that language. An interpreter is just another computer program but it will convert ideas you've written in a programming language into "machine code" so you can see things work. Lots of programs are available and you will need to choose one that is appropriate for you.[9] 3 Read the book! Take examples of the programming language from the book and put them into your interpreter. Try changing the examples and making the program do different things. 4 Try putting together your ideas to form a working program. Start with simple things, like a program to convert currencies, and work your way up to more complex things as you continue reading and learning about your programming language. 5 Learn another language. Once you start actively programming in your first language, you may want to learn a second one. You'll get the most out of learning a second programming language if you pick one that uses a radically different paradigm than the one you started with. For instance, if you started in Scheme, you might try learning C or Java next. If you started in Java, you could learn Perl or Python. 6 Continue programming and trying new things! To be a good programmer, you, at the very least, have to keep up with changing technology. It's a constant learning process, and you should always be learning new languages, new paradigms, and most importantly: programming new things! Being a successful programmer means learning to think like one. You'll need to look at challenges as learning opportunities, desire to improve your skills and be open to new ways of improving your programming process. Advertisement Add New Question Question Where do programmers work? Stephen Cagnetta, MBA Computer Engineer Stephen Cagnetta is the co-founder and CEO of Exponent, a learning platform that helps people prepare for and ace their tech interviews. Stephen specializes in coaching for product management, software engineering, product marketing, management, technical project management, and data science interviews. Stephen holds a BS in Computer Engineering from Princeton University, where he graduated Summa Cum Laude, and an MBA from Stanford University. Prior to founding Exponent, Stephen worked as a Product Manager for Google and co-founded HackMentalHealth. Support wikiHow by unlocking this expert answer. Well, why are you considering it? What is it about programming that appeals to you? If you're interested in programming and you're passionate about technology and you enjoy building things, programming may be right for you. Question What kind of programming books are good for beginners? Check out "For Kids" books, like Python for Kids. Even if you're not a kid, the books are still useful for beginners as they explain things with extreme clarity and simplicity. Question What programming language should I learn first? There is no one right language to start with, so pick something that appeals to you. Some good options that are widely used and useful to know include Ruby, Python, JavaScript, and C++. Question What is the first step to lean programming? Find a language you want to learn. Some easy ones include Javascript and HTML. Question Where can I find free coding practice problems? Check out sites like TopCoder, Google Code Jam, CodingBat, and Codecademy. Question How can I practice programming languages? The best way to practice programming is to write a computer program. No flashcards or note-taking is necessary, just do it. You may make mistakes, but that's how you learn! Question Are there any free classes for computer programming? Yes! Codecademy is a popular online option. Khanacademy is another option. If you want something more advanced, try MIT Opencourseware. Be aware that none of the above options grant you degrees or diplomas! Question I am a high school student. Can you recommend a programming language for me to learn? Learn Python or Java. Many universities and colleges teach these languages, so learning them is a great preparation for Computer Science and Software Engineering programs! There are also a lot of jobs out there that require Python and/or Java developers! Question How can I motivate myself in programming? Try to think about the process as if it were a championship. If you were in some kind of sports, for example in boxing, you know that to beat your opponent and to be the best requires hard training and dedication. The same applies here - you want to be better than the other programmers to get recognition, the best jobs, etc. Show more answers Ask a Question Advertisement Thanks! Thanks! Thanks! Thanks! Thanks! Thanks! Thanks! Thanks! Advertisement This article was co-authored by Stephen Cagnetta, MBA. Stephen Cagnetta is the co-founder and CEO of Exponent, a learning platform that helps people prepare for and ace their tech interviews. Stephen specializes in coaching for product management, software engineering, product marketing, management, technical project management, and data science interviews. Stephen holds a BS in Computer Engineering from Princeton University, where he graduated Summa Cum Laude, and an MBA from Stanford University. Prior to founding Exponent, Stephen worked as a Product Manager for Google and co-founded HackMentalHealth. This article has been viewed 2,418,904 times. Co-authors: 127 Updated: February 27, 2022 Views: 2,418,904 Categories: Featured Articles | Programming Print Send fan mail to authors Thanks to all authors for creating a page that has been read 2,418,904 times. "Thank you! You showed me the way. The information is perfect, and it helped me a lot. I just started programming, and it is my passion. I made my time apart from my studies. My cousin told me to try wikiHow. I did, and now I am very happy, as I know my way. "... more Share your story

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