

Future of computer programming

Listen to the text. Complete the missing words or ideas.

- | | |
|---|---------------------------------------|
| -array based multi-paradigm | -cater to the masses |
| -runs on the .NET framework | -could fit for a programmer |
| -might open up for computer programmers | -will pave the way for |
| -shape up the future | -efficient and take up less resources |
| -can create a better future | |

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Programmers are the people who 1 _____. They create almost everything we use in this virtual world. They write code, create applications and automate most of the tedious tasks we have been performing for centuries. Sure physical machines also play a crucial role in shaping our future. But what good is a piece of technology without a set of codes to run and govern it?

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If you take a look into programming circles you can see a very common pattern evolve into place. Managers and business leaders don't care about the best programming language. All they care about is efficiency and the speed at which anything can be created or modified. They don't care if the code is 10 lines or 1000 lines long. All they need is something that is easy to create and then customize. They need something that will be 2 _____.

Not all of us can become programmers. That's the god honest truth that everyone needs to realize in this world. Right from 2018 we are starting to see a bunch of startups, training institutes and bootcamps aimed towards teaching programming.

Their core idea is to 3 _____ who are looking to learn a programming language. They are also catering to the masses who want to enrol their children into programming courses and bootcamps.

So there are two ways in which programmers 4 _____ for themselves:

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1. Upskill themselves on new languages

The future of programmers is highly uncertain. So if you're serious about programming, you need to upskill yourselves by learning up the programming languages of the future. With that sentence, you might get the following question: what are the top programming languages of the future?

- Python: Python 5 _____ that allows you to create anything from applications to websites. One of the best benefits of python is the extensive support you get from the

community. You can use libraries like Django and Flask to assist you in your web development needs. On the same hand you can also use similar libraries like Tensorflow, Keras and Scipy to assist you in projects related to data science application development. On top of all this, the simplicity and versatility of python make it one of the best programming languages to learn. It's a great place to start upskilling yourself as a programmer.

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- R: R is a bit more complex than the average programming language. For starters it is an 6 _____ programming language. The helpful aspect of R is that it also serves as an environment for graphics. Much like python, R also comes with a set of libraries to support your process. Libraries like Ggplot, TidyR help you create powerful applications with half the time spent. Three helpful characteristics of R as a programming language are its scalability, high capacity to run statistics and ease to run data visualizations.
- Java: Java has been the primary programming language for creating everything from web applications, websites, games and application side servers. It is much like the unheard head of all programming languages. Yet again, the helpful community around Java makes it easier to develop complex applications quickly. Many programmers use libraries like Jsat, JAVA ML, Weka and Adams to design applications for machine learning.

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- SCALA: Scala is a beautiful programming language that combines the beauty of object oriented programming and functional programming into one language. Scala is a JVM language that helps programmers create highly scalable systems that perform very complex tasks with ease. Companies like Linkedin and AT&T use Scala to create everything from complex machine learning algorithms to web applications.
- C#: C# is an open source, object oriented programming language that 7 _____. This tool was used by programmers to create tons of web applications and games. C# was famously used to create web and desktop applications for phones that used a Windows OS.
- Kotlin: Kotlin is a programming language that works on the Java Virtual Machine. This programming language is very popular among Android developers because of its interoperation capabilities between Java. This tool is really easy to learn and can be implemented with any Java IDE.

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2. Pivot to something where your skills will pay off

Programmers are always talented with analytical thinking and creativity. There are hundreds of jobs where you can use both these skills to build a really successful career.

Some careers which might be suitable for someone interested in programming are:

Marketing developer, Sales engineer, Technical recruiter, Quality assurance engineer, Test engineer, Business analyst, Scrum master, Designer, DevOps engineer, Technical support, Data scientist, and Security analyst. These are some examples of roles that **8** _____, but there are still hundreds of unexplored careers and uninvented jobs that **9** _____ in the future.

To sum up, not all of us can be programmers, but there's no harm in learning a bit about programming. In the future of programming there's still lots of room to grow. Automation, Machine Learning and AI **10** _____ a new kind of programming environment in the future.