

Rust - interesting programming language worth learning

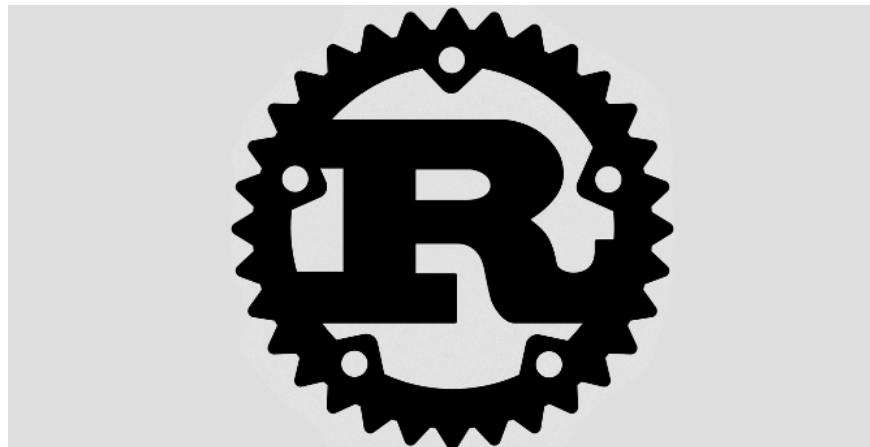
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Rust - interesting programming language, this is a statement of many developers. In many programming languages ??today, which language should you learn? How to know which language is worth learning or more interesting? There are many reasons why Rust became the next language you should learn. Consider the following reasons.

1. Should we learn many programming languages ??or just one?
2. The world's 5 most annoying 'programming languages'
3. Top 5 languages ??for blockchain programming

What is Rust programming language?

Rust is a programming language developed by Mozilla, compared to other programming languages. Rust is quite young but looks like the old languages ??like C or C ++.



However, Rust has a modern package management system and can be installed for use on almost every operating system, and even on embedded hardware. You can install Rust from the official website with the language manual.

Certainly there are languages ??that are easier to learn but why Rust?

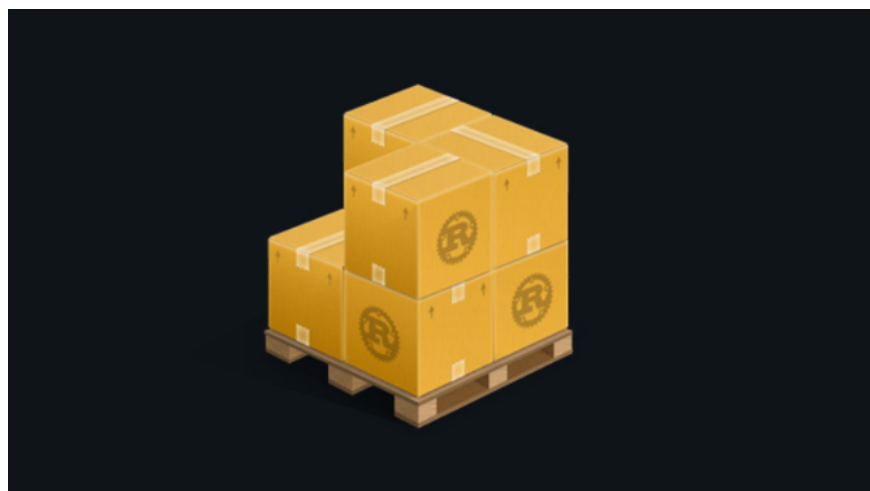
1. Rust - special programming language

Different coding languages are suitable for different uses. Low-level languages are suitable for hardware and memory tasks due to their speed. Even experienced developers may encounter errors that are nearly impossible to debug programs.

On the other hand, higher-level languages such as Python, Ruby and JavaScript may not work as well as low-level languages but are often easier to read and write. High-level languages handle user memory management, making it easier to use and debug.

Rust has the speed and control of low-level languages along with tools, safety and debugging from high-level languages.

2. Cargo package manager does everything



Rust uses a package manager named Cargo. Like NPM in JavaScript or Ruby Gems, Cargo gathers and compiles everything you need to implement the project. In addition, you can use Rust to check code errors, compile, build and manage dependencies.

Each new Rust project, you will have a Cargo.toml file, containing details and dependency of the project. When checking or building a project, Cargo uses this Cargo.toml file to pack everything the project needs.

For beginners, using frameworks to navigate is a challenge. But with Cargo, even without ever using the package manager, you can easily use it for the first time.

3. Rust fast

One of Rust's main attractions is speed. It has clever memory management rules, does not require garbage collection (garbage). Many other languages must constantly check what is being executed at runtime to avoid problems.

Rust does not need to check during runtime because the compiler will prevent bad code during project construction. Although some scripts may take a long time to compile, it still runs fast.

Rust is not just for programs running on the computer, it is also suitable for embedded hardware thanks to the intelligent memory system. Also, it can work on Raspberry Pi.

4. Rust for web development

When used on the web, it retains speed and safety. WebAssembly is both a language and a mobile executable file to run code online. As a low-level language, any language can translate into WebAssembly.

Frameworks like Rocket allow developers to build web applications completely with Rust and at this rate, it can be the perfect online language. Also the combination of Rust and WebAssembly is extremely powerful and will be an important part of many upcoming projects.

5. The favorite developer Rust

All developers love Rust. It is one of the most popular languages in 2016, 2017 and 2018 according to Stack Overflow's developer survey. Everyone from web developers, music producers, and game developers to embedded hardware programmers talks about its perfection for their work.

6. Rust helps you become a better programmer

Most people are self-taught to write code, many also use high-level languages. They can master coding but have not really understood what can make their program stand out. Even worse when you compile the code correctly but cannot run even though it performs a seemingly reasonable task on the computer.

Lower-level languages can run code much faster. Try new projects starting with C and other low-level languages, you may find that languages don't seem too hard to learn. The problem is, if you don't understand how memory management works correctly, you will encounter problems that are difficult to debug.

Rust requires you to have good programming skills but don't need to know everything when starting the project. When there are problems in the program, the compiler not only notifies you but also suggests some measures to fix the problem.

Learning Rust language is like learning low-level languages but different in that its rules and compilers will help you practice better.

7. Rust language instruction manual - The Book

Almost all languages have a start in their documentation to help new users get used to the syntax and usage. The Rust Programming Language, referred to as The Book (doc.rust-lang.org/book/) is a guidebook of 12 chapters, which covers all elements of language through easy-to-understand examples. The compelling Book aims to help new people more easily read and understand but does not cause discomfort to experts.

Should you study Rust?

For those interested in programming, Rust is an interesting programming language worth learning.

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