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## Rust Interview Questions

### **Rust Programming Interview Questions and Answers**

#### **Q1. Explain Rust?**

Rust is blazingly fast systems programming language that prevents segfaults and guarantees thread safety.

#### **Q2. Rust was Designed by whom**

Originally Rust was designed by **Graydon Hoare**, Now it managed by **Rust project developers**.

#### **Q3. When the first version of Rust was released**

The first version of Rust was released in the year 2010.

#### **Q4. Rust syntax is similar to which programming Language**

Rust is syntactically similar to C++.

#### **Q5. List some features of Rust?**

Rust Programming Language comes with following features Sets.

- zero-cost abstractions
- move semantics
- guaranteed memory safety
- threads without data races
- trait-based generics
- pattern matching
- type inference
- minimal runtime
- efficient C bindings

#### **Q6. Who uses Rust?**

Below is list of some reputed companies who use Rust. You can find the complete list from [Friends of Rust](#)

- 360dialog
- OneSignal

- Coursera
- Atlassian
- Braintree
- npm, Inc
- Mozilla
- Academia.edu
- Xero

### **Q7. List the Platforms supported by Rust Programming Language**

Linux, Mac, and Windows, on the x86 and x86-64 CPU architecture, are some major platforms supported by Rust Programming Language. For the complete list please visit (<https://forge.rust-lang.org/platform-support.html>)

### **Q8. List steps to install Rust?**

On Linux and macOS simply open the terminal and run following commands

```
$ curl https://sh.rustup.rs -sSf | sh
```

Above command will download a script, and start the installation process. If everything was good and no error occurred you will see below success message.

**Rust is installed now. Great!**

If you are on Windows. Installing Rust is very easy just download and run **rustup-init.exe** File. You can download it from [here](#)

### **Q9. Do you remember which command is used to uninstall Rust?**

**\$ rustup self uninstall** command is used to uninstall Rust programming language.

### **Q10. How to get installed the version of Rust?**

**rustc --version** command is used to get installed version of Rust.

### **Q11. How to write and run a Rust Program?**

Step to create and run a Rust Program

create a file name main.rs and add following code in it.

```
fn main() {
    println!("Hello, Rust!");
}
```

On Linux or macOS to run open terminal run below command

```
$ rustc main.rs
$ ./main
```

## Q12. [Explain Cargo?](#)

**Cargo** is Rust's build system and package manager, and **Rustaceans** use Cargo to manage their Rust projects. Cargo manages three things: building your code, downloading the libraries your code depends on, and building those libraries.

Read More: <https://doc.rust-lang.org/book/first-edition/getting-started.html#hello-cargo>

## Q13. [What Is That Cargo.lock?](#)

When we run cargo build command it creates a new file called Cargo.lock. Cargo uses the Cargo.lock file to keep track of dependencies in your application.

## Q14. [What cargo new command do?](#)

**cargo new** creates a new project with Cargo. Below is the syntax to create a sample project using Rust Cargo.

```
$ cargo new project_name --bin
```

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