

# Installation of Rust on Linux

**Spoken Tutorial Project**

<https://spoken-tutorial.org>

**National Mission on Education through ICT**

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**2 September 2024**



# Learning Objectives

**In this tutorial, we will learn how to:**



# Learning Objectives

In this tutorial, we will learn how to:

- **Install Rust on Ubuntu Linux**



# Learning Objectives

In this tutorial, we will learn how to:

- ▶ **Install Rust on Ubuntu Linux**
- ▶ **Set up an Integrated Development Environment**



# Learning Objectives

In this tutorial, we will learn how to:

- ▶ **Install Rust on Ubuntu Linux**
- ▶ **Set up an Integrated Development Environment**
- ▶ **Run a Hello World Rust program**



# System Requirements



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**To record this tutorial, I am using**



# System Requirements

To record this tutorial, I am using

► **Ubuntu Linux OS version 22.04**





# System Requirements

To record this tutorial, I am using

- ▶ **Ubuntu Linux OS version 22.04**
- ▶ **Visual Studio Code**



# Installation Requirements



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**For the installation of Rust**



# Installation Requirements

**For the installation of Rust**

- ▶ **A working internet connection is required**



# About Rust



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- ▶ Rust is a systems programming language and similar to C++
- ▶ It prioritizes performance, memory safety, and parallelism
- ▶ Rust offers features like guaranteed memory safety without needing a garbage collector





# Rust Compiler

- ▶ `rustc` is the Rust compiler



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- ▶ **rustc is the Rust compiler**
- ▶ **It is responsible for translating the Rust code into executable binaries**



# Rust Compiler

- ▶ `rustc` is the Rust compiler
- ▶ It is responsible for translating the Rust code into executable binaries
- ▶ This process involves checking for errors and optimizing your code for performance



# Rustup: The Toolchain Manager

- ▶ **Rustup is a toolchain manager that helps to manage Rust versions and tools**



# Rustup: The Toolchain Manager

- ▶ Rustup is a toolchain manager that helps to manage Rust versions and tools
- ▶ It allows you to easily install and switch between different versions of Rust



# Summary

In this tutorial we learnt to

- ▶ **Install Rust on Ubuntu Linux**
- ▶ **Set up an Integrated Development Environment**
- ▶ **Run a Hello World program**



# About the Spoken Tutorial Project

- ▶ Watch the video available at [https://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](https://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



# Spoken Tutorial Workshops

## The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)





# Answers for THIS Spoken Tutorial

- ▶ Questions in THIS Spoken Tutorial?
- ▶ Visit <https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer

You will have to register to ask questions



# Forum for specific questions

- ▶ **The Spoken Tutorial forum is for specific questions on this tutorial**
- ▶ **Please do not post unrelated and general questions on them**
- ▶ **This will help reduce the clutter**
- ▶ **With less clutter, we can use these discussions as instructional material**



# Acknowledgements

**Spoken Tutorial project was established by the Ministry of Education(MoE), Govt of India**



# Thank You

**We would like to thank Vishal Pokuri  
from VIT Vellore for content  
contribution**

