

Installation of Rust on Linux OS

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<https://sakshat.ac.in>

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Learning Objectives

In this tutorial, we will learn:



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In this tutorial, we will learn:

- ▶ **How to Install Rust**



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In this tutorial, we will learn:

- ▶ **How to Install Rust**
- ▶ **Create and execute a Rust File**



System Specifications

This tutorial is recorded using:



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This tutorial is recorded using:

▶ **Ubuntu Linux OS version 18.04**



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- ▶ **Ubuntu Linux OS version 18.04**
- ▶ **Rust version 1.47.0**



System Specifications

This tutorial is recorded using:

- ▶ **Ubuntu Linux OS version 18.04**
- ▶ **Rust version 1.47.0**
- ▶ **Visual Studio Code version 1.45.0 (code editor)**



Prerequisites



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- ▶ You should be familiar with basic Linux commands



Prerequisites

- ▶ You need an internet connection to install the necessary packages
- ▶ You should be familiar with basic Linux commands
- ▶ If not, please go through the prerequisite Linux tutorials on <https://spoken-tutorial.org>



Code Files

- ▶ The files used in this tutorial are available in the [Code files link on this tutorial page](#)



Code Files

- ▶ **The files used in this tutorial are available in the Code files link on this tutorial page**
- ▶ **Pls download and extract the files**



Code Files

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- ▶ Pls download and extract the files
- ▶ Make a copy and then use them for practising



Rust Update

► `rustup update`



rustup toolchain list

`rustup toolchain` **command lists the various toolchains of Rust installed in your machine**



Cargo

- ▶ cargo **is a** package manager **to maintain a** Rust project **with** dependencies



Common Errors - After Installation

- ▶ **System restart is required after installing Rust**



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- ▶ **If not, you would land with these errors**
 - ▶ `rustup: command not found`



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- ▶ **System restart is required after installing Rust**
- ▶ **If not, you would land with these errors**
 - ▶ `rustup: command not found`
 - ▶ `rustc: command not found`



Common Errors - After Installation

- ▶ **System restart is required after installing Rust**
- ▶ **If not, you would land with these errors**
 - ▶ `rustup: command not found`
 - ▶ `rustc: command not found`
 - ▶ `cargo: command not found`



Common Errors



Common Errors

▶ linker ‘‘cc’’ not found



Common Errors

- ▶ linker `‘‘cc’’` not found
- ▶ `gcc` **not installed**



Common Errors

- ▶ linker ‘‘cc’’ not found
- ▶ gcc **not installed**
- ▶ `sudo apt install build-essential`



Summary

In this tutorial, we have learnt:

- ▶ **How to Install Rust**
- ▶ **Some basic Rust commands**
- ▶ **How to overcome common errors during installation**
- ▶ **Create and execute Rust file**



Assignment

- ▶ **Create a file** `assignment.rs`
- ▶ **Print** - Welcome to Spoken Tutorials!
- ▶ Compile **and** execute **the file**
- ▶ **Observe the output in the Terminal**



About Spoken Tutorial project

- ▶ Watch the video available at 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



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 discussion as instructional material**



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Thank you

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