Hide menu
Using structured data
Exploring strings and vectors
Working with Enums and Variants
Video: Introduction to Enums and Variants 1 min
Video: Demo: Defining an Enum 4 min
Video: Demo: Using Enum as a Type 5 min
Lab: Practice Interval Lab: Using Enum as a type 1h
Video: Demo: The Option Enum 8 min
Video: Demo: Applied Enums 6 min
Lab: Practice Interval Lab: Applied Enums 1h
Video: Demo: Using Vectors with Enums 5 min
Lab: Practice Interval Lab: Using Vectors with Enums 1h
Video: Demo: Exhaustive matches 5 min
Video: Summary of Enums and Variants 1 min
Reading: Optional: Handling Errors in Rust Microsoft Learn Module 10 min
Quiz: Organizing Data in Rust: Structs, Enums, and Types 30 min
Reading: External Lab: Create a File Size formatter 10 min

Congratulations! You passed!

Go to next item

Organizing Data in Rust: Structs, Enums, and Types

Graded Quiz • 30 min • Due Jan 14, 11:59 PM PST

received 100% Submission passed on Jan 14, 11:59 PM PST

Review Learning Objectives

Submit your assignment

Try again

Due Jan 14, 11:59 PM PST

Attempts 3 every 8 hours

Your grade 100%

View Feedback

To Pass 80% or higher

We keep your highest score

Like Dislike Report an issue

1. What is the purpose of defining structs in Rust? **1 / 1 point**

- Controlling the flow of execution within a program
- Enabling AI pair-programming capabilities
- Optimizing memory allocation and usage
- (selected) Organizing and manipulating structured data effectively

Correct
Correct! The purpose of defining structs in Rust is to organize and manipulate structured data effectively.

2. Which concept in Rust allows you to create multiple instances of a structured data type with defined fields? **1 / 1 point**

- Enums and variants
- Vectors
- (selected) Structs
- String and str

Correct
Correct! Structs in Rust allow you to create multiple instances of a structured data type with defined fields.

3. What is the purpose of working with strings in Rust? **1 / 1 point**

- Optimizing memory allocation and usage
- (selected) Manipulating and working with textual data effectively
- Enabling AI pair-programming capabilities
- Defining custom data types with named fields

Correct
Correct! The purpose of working with strings in Rust is to manipulate and work with textual data effectively.

4. What is the primary purpose of enums in Rust? **1 / 1 point**

- Optimizing memory allocation and usage
- (selected) Defining custom types with a finite set of possible values
- Controlling the flow of execution within a program
- Enabling AI pair-programming capabilities

Correct
Correct! The primary purpose of enums in Rust is to define custom types with a finite set of possible values.

5. How do you create an instance of a struct in Rust? **1 / 1 point**

- By manipulating strings and string formatting
- By adding elements to a vector
- (selected) By specifying the values for the struct's fields
- By defining a variant within an enum

Correct
Correct! You create an instance of a struct in Rust by specifying the values for the struct's fields.

6. Which Rust concept is used to handle the presence or absence of a value? **1 / 1 point**

- String interpolation
- Struct instances
- (selected) Option enum
- Associative arrays

Correct
Correct! The Option enum in Rust is used to handle the presence or absence of a value.

7. What is the primary purpose of using vectors in Rust? **1 / 1 point**

- Controlling the flow of execution within a program
- Enabling AI pair-programming capabilities
- (selected) Storing and managing collections of elements dynamically
- Optimizing memory allocation and usage

Correct
Correct! The primary purpose of using vectors in Rust is to store and manage collections of elements dynamically.

8. Which Rust concept allows you to assign different behaviors to an enum type? **1 / 1 point**

- String and str
- Structs
- Option enum
- (selected) Variants

Correct
Correct! Variants in Rust allow you to assign different behaviors to an enum type.

9. What does it mean to exhaustively match an enum in Rust? **1 / 1 point**

- (selected) Providing a match arm for each possible variant of an enum
- Apply exhaustive error handling for all possible error scenarios
- Enabling AI pair-programming capabilities for enum types
- Optimizing memory allocation and usage for enum types

Correct
Correct! To exhaustively match an enum in Rust means to provide a match arm for each possible variant of the enum.

10. What is the purpose of working with structured data in Rust? **1 / 1 point**

- Enabling AI pair-programming capabilities
- Optimizing memory allocation and usage
- (selected) Organizing and manipulating data effectively for better program organization and readability
- Controlling the flow of execution within a program

Correct
Correct! The purpose of working with structured data in Rust is to organize and manipulate data effectively for better program organization and readability.