



1200 XP

Convert data types using casting and conversion techniques in C#

1 hr 2 min • Module9 Units

Beginner

Developer

Higher Education Educator

K-12 Educator

Student

.NET

Visual Studio Code

Take control of the data in your applications, knowing when to apply the correct technique to change data types as needed.

Learning objectives

- Use the casting operator to cast a value into a different data type.
- Use conversion methods to convert a value into a different data type.
- Guard against the loss of data when performing a cast or conversion operation.
- Use the `TryParse()` method to safely convert a string into a numeric data type.

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Prerequisites

- Experience using data types like `string`, `int`, `decimal`, `float`, and so on
- Experience using arrays and the `foreach` iteration statement
- Experience using *string interpolation* to combine *variable* and *literal* values for output
- Experience using Visual Studio Code to develop, build, and run C# code

This module is part of these learning paths

[Work with variable data in C# console applications \(Get started with C#, Part 4\)](#)

Introduction

2 min

Exercise - Explore data type casting and conversion

30 min

Exercise - Examine the TryParse() method

12 min

Exercise - Complete a challenge to combine string array values as strings and as integers

6 min

Review a solution for combining string array values as strings and as integers challenge

1 min

Exercise - Complete a challenge to output math operations as specific number types

6 min

Review a solution for the output math operations as specific number types challenge

2 min

Knowledge check

2 min

Summary

1 min