
Module 3 Data Types, Variables, and Constants

Lecture Other Value Types

Module 3 Learning Objectives

Bloom Level	Number	Name	Description	Course Learning Objectives
3: Apply	1	Given Types	Develop a console application that uses specified data types	Basic Programming Concepts
3: Apply	2	Selected Types	Develop a console application that uses programmer-selected data types	Basic Programming Concepts
2: Understand	3	Data Type Comparison	Compare and contrast different C# data types	Basic Programming Concepts
3: Apply	4	Calculations	Develop a console application that uses variables and constants for calculations	Basic Programming Concepts

Last time, we discussed the different value types we can use to represent numbers in C#

Remember, for value types the bits in memory represent the value of the variable

This time, we'll discuss the other value types in C#

- Characters
- `char`
 - 16 bits
 - Unicode
- Operations as we need them

In-Lecture Quiz

The `char` data type lets you hold

- A: your own hand
 - B: somebody else's hand
 - C: Dr. T's hand
 - D: a single character
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- Booleans
- `bool`
 - Only two possible values:
`true, false`
- Operations may be new to you
 - And: `&&`
 - Or: `||`
 - Not: `!`
- Booleans are very helpful when we make decisions in our code

In-Lecture Quiz

The `bool` data type is named after

- A: George Boole
 - B: Bubba Boole
 - C: you
 - D: me
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- Recap

- C# provides a value types to store characters and Booleans

- End of Module 3

- Next Time

- Classes and objects, foundational object-oriented concepts
