

# What's New in C# 12

## Primary Constructors and Syntax Enhancements



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# About this course

**Assuming C# experience**

**Productive new features**

**Short code examples**

**<https://github.com/RolandGuijt/CSharp12>**



# Version Check



**This version was created by using:**

- C# 12
- .NET 8
- Visual Studio 2022



# Version Check



**This course is 100% applicable to:**

- C# 12+
- .NET 8+
- Visual Studio 2022+



**https://dot.net**

# **When a Primary Constructor Parameter is Used in a Method**

**Field will be generated  
Name is unknown and unreadable**



# Generated Code

In IL (Intermediate Language)

Allows for "syntactic sugar"

Primary constructors will end up as  
normal constructors



# Primary Constructors

**Convenient, but watch out for:**

**Double backing fields**

**Non-readonly backing fields**

**Coding guideline: just use primary constructor parameters to initialize fields and properties**

**Don't support anything beyond simple assignments**



**Up Next:**

# **Collection Expressions and Spread Operator**

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