

# Resources and Links for "Cutting-Edge C# 10"

## Contents

This course describes the additions to the C# language added in the 7, 7.1, 7.2, 7.3, 8, 9, and 10 releases. It consists of both module presentations and practical exercises.

## Prerequisites

This course is aimed at C# developers with a preexisting knowledge of C# 6 and earlier.

## Agenda

The course has a duration of 1 course days following the agenda outlined below.

Day 1	Introduction Module 01: "Recapping C# 7.0, 7.1, 7.2, and 7.3" Module 02: "An Introduction to C# 8"
Day 2	Module 03: "An Introduction to C# 9" Module 04: "What's New in C# 10?"

## Resources and Links

### Module 01: Recapping C# 7.0, 7.1, 7.2, and 7.3

- C# Language Version History
  - <https://github.com/dotnet/csharplang/blob/master/Language-Version-History.md>
- .NET Support
  - <https://docs.microsoft.com/en-us/lifecycle/products/microsoft-net-framework>
  - <https://dotnet.microsoft.com/en-us/platform/support/policy/dotnet-core>
- Tuples
  - <https://csharp.christiannagel.com/2016/10/11/tuples/>
  - <https://docs.microsoft.com/en-us/dotnet/csharp/deconstruct>
- Pattern Matching
  - <https://docs.microsoft.com/en-us/dotnet/csharp/pattern-matching>
  - <https://csharp.christiannagel.com/2017/02/15/patternmatching/>
- Out Vars and Ref Returns
  - <https://csharp.christiannagel.com/2017/02/01/refreturns/>
- Expression-bodied Members
  - <https://csharp.christiannagel.com/2017/01/25/expressionbodiedmembers/>
- Literals and Separators
  - <https://csharp.christiannagel.com/2016/10/06/literals/>
- Discards
  - <https://docs.microsoft.com/en-us/dotnet/csharp/discards>
- Span<T>

- <https://blogs.msdn.microsoft.com/dotnet/2017/11/15/welcome-to-c-7-2-and-span/>
- <https://channel9.msdn.com/Events/Connect/2017/T125>
- Microsoft Build 2018
- <https://channel9.msdn.com/Events/Build/2018/BRK2155>

#### Module 02: An Introduction to C# 8

- What's New in C# 8
  - <https://docs.microsoft.com/en-us/dotnet/csharp/whats-new/csharp-8>

#### Module 03: An Introduction to C# 9

- What's New in C# 9
  - <https://docs.microsoft.com/en-us/dotnet/csharp/whats-new/csharp-9>

#### Module 04: What's New in C# 10?

- What's New in C# 10
  - <https://docs.microsoft.com/en-us/dotnet/csharp/whats-new/csharp-10>
- LINQ Improvements in .NET 6
  - <https://raygun.com/blog/linq-net-6-improvements/>

#### Additionally about C# 11

- <https://mybuild.microsoft.com/en-US/sessions/34024242-36f5-4e37-b2fe-5b040ec55a3e>