Resources and Links for "Cutting-Edge C# 12"

Contents

This course describes the additions to the C# language added in the 7.x, 8, 9, 10, 11, and 12 releases. It consists of both module presentations and practical exercises.

Prerequisites

This course is aimed at C# developers with a preexisting knowledge of C# 7 and earlier.

Agenda

The course has a duration of 2 course days following the agenda outlined below.

Day 1	Introduction Module 01: "Very Quick Recap of C# 7.x" Module 02: "An Introduction to C# 8" Module 02 Labs Module 03: "An Introduction to C# 9" Module 03 Labs
Day 2	Module 04: "An Introduction to C# 10" Module 04 Labs Module 05: "What's New in C# 11?" Module 05 Labs Module 06: "Newest Features in C# 12" Module 06 Labs

Resources and Links

Module 01: Very Quick Recap of C# 7.x

- 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/
- Ref Returns
  - https://csharp.christiannagel.com/2017/02/01/refreturns/
- Span<T>

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

Module 02: An Introduction to C# 8

- What's New in C# 8
  - o 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
  - o https://docs.microsoft.com/en-us/dotnet/csharp/whats-new/csharp-9

Module 04: An Introduction to C# 10

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

Module 05: What's New in C# 11?

- What's New in C# 11
  - o https://learn.microsoft.com/en-us/dotnet/csharp/whats-new/csharp-11
- .NET Conf 2022
  - o https://www.youtube.com/watch?v=H18CfoinPZg

Module 06: Newest Additions in C# 12

- What's New in C# 12
  - o https://learn.microsoft.com/en-us/dotnet/csharp/whats-new/csharp-12
- .NET Conf 2023
  - o https://www.youtube.com/watch?v=by-GL-SjHdc