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
- 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/