.NET Series



What is .NET? .NET Foundational Concepts

Manoj Kumar Sharma

- Freelance Consultant / Corporate Trainer
- 31+ years of Experience in the Software Industry
 - 23+ years as a Software Architect
 / Systems Analyst / Project Lead
 - Last Designation held: Director of Technology at ExamRoom.AI
- 17+ years of Corporate Training Experience.
 - Delivered over 1600 in-person trainings across India, US, China, Oman and Thailand, and over 700+ remote trainings
 - Microsoft Certified Trainer (2012-2025)

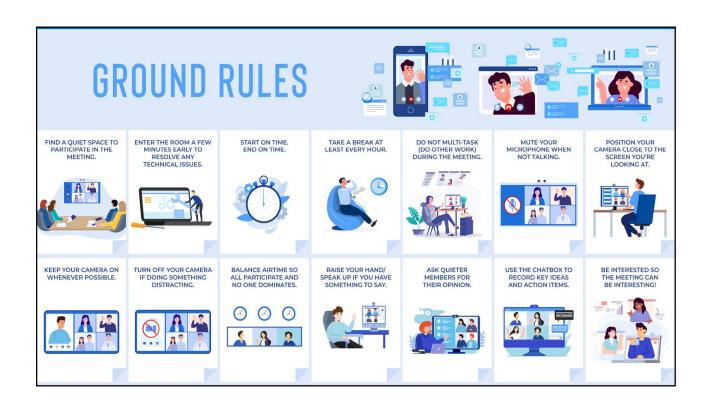
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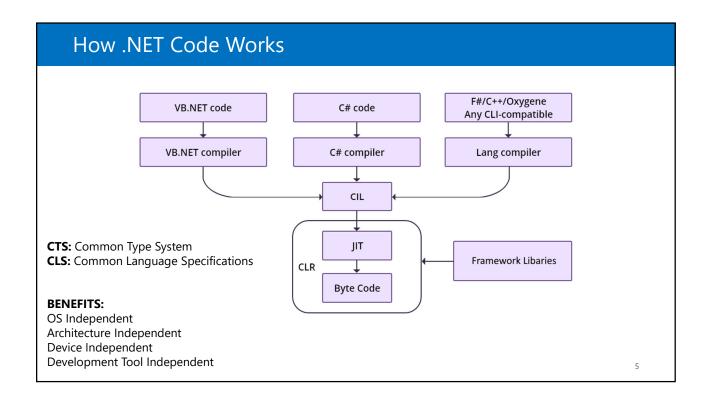


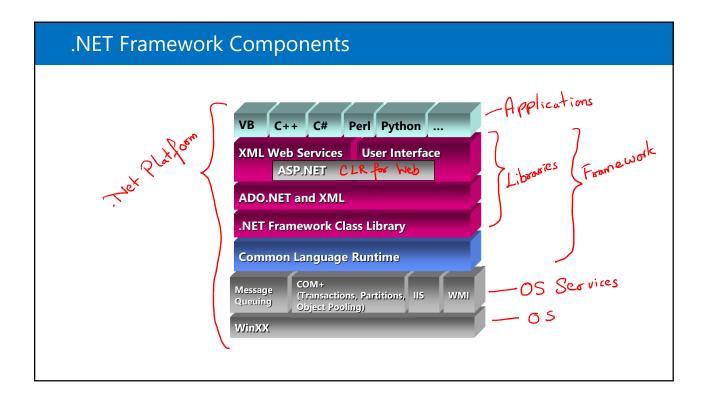


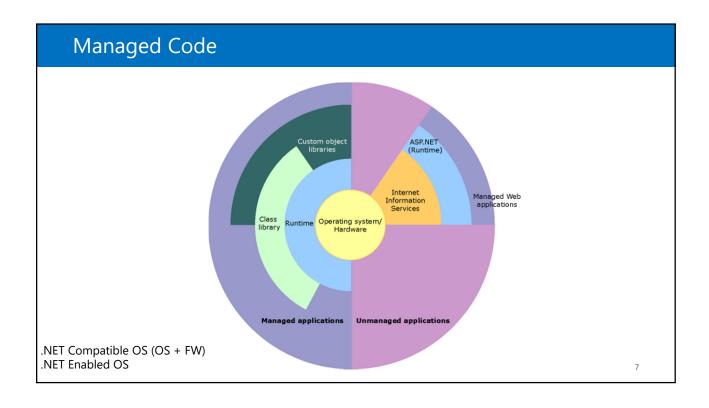
Introductions

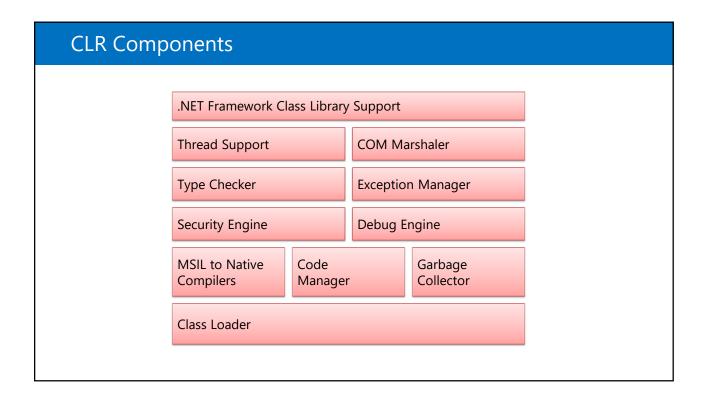
- Name
- Company affiliation
- Title/function
- Job responsibility
- Relevant Experience
- Your expectations for the course

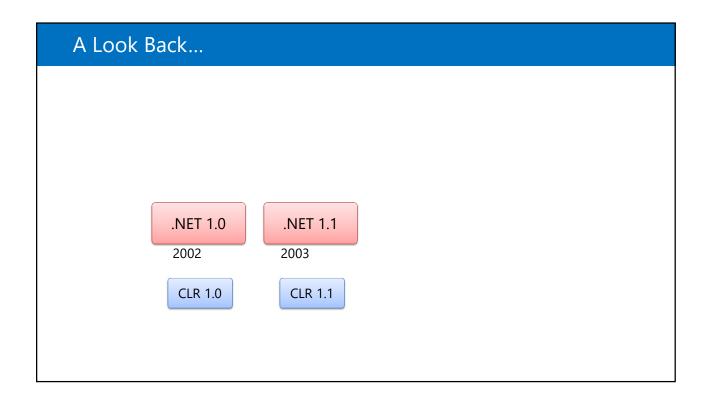


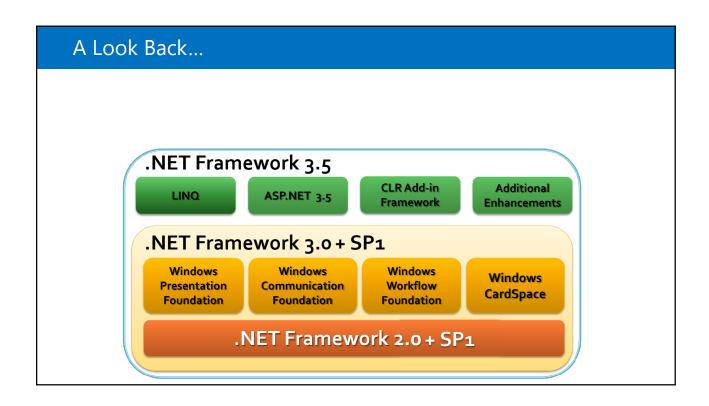


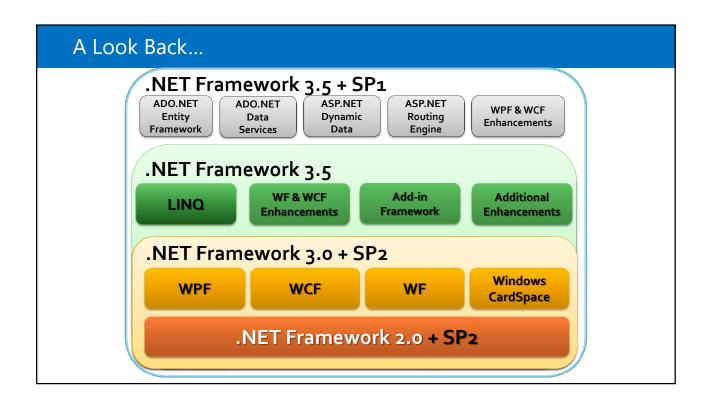


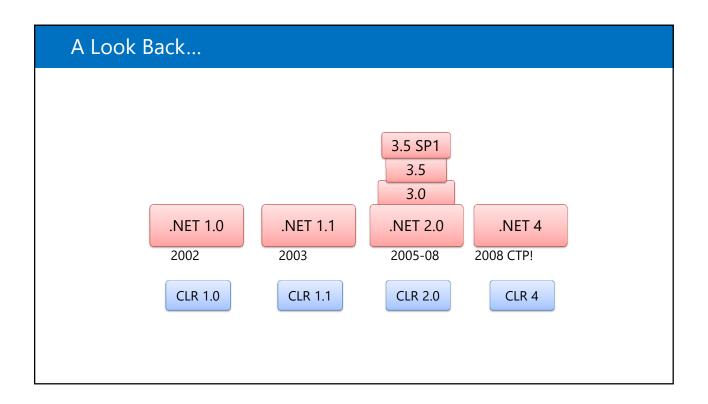


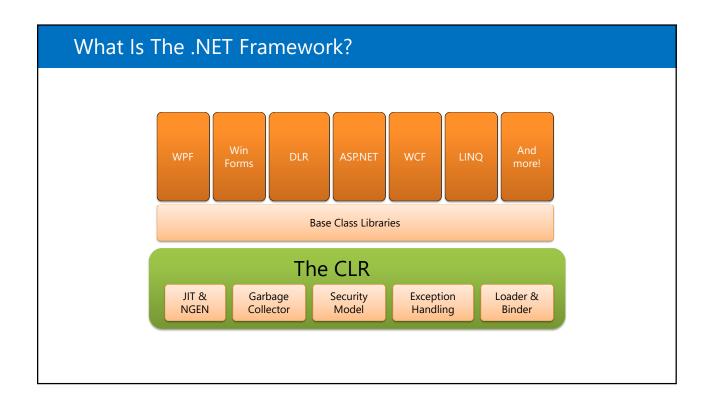


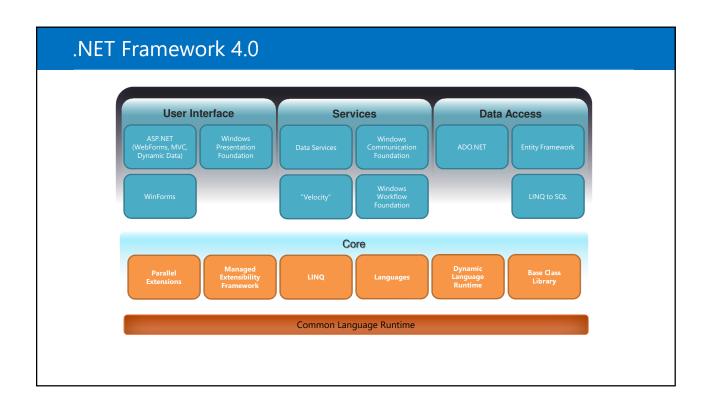


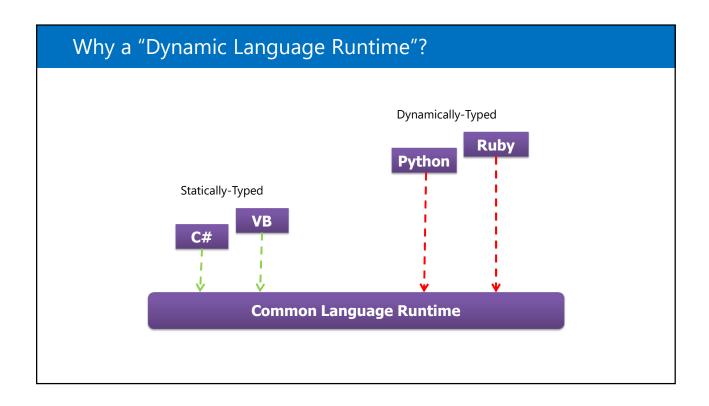


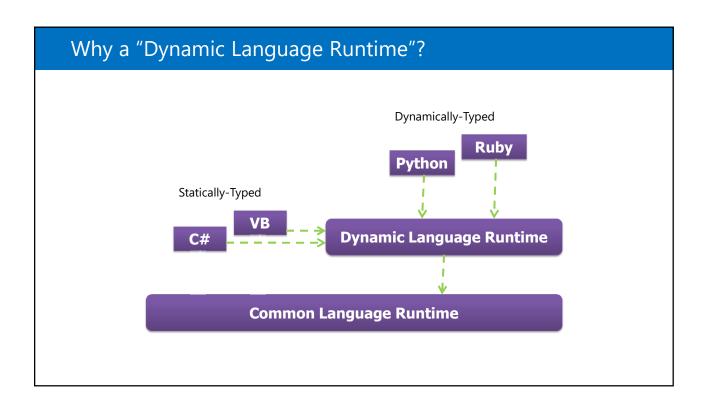


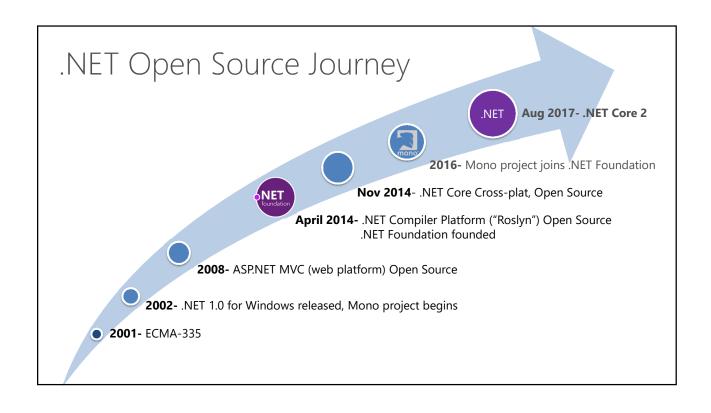


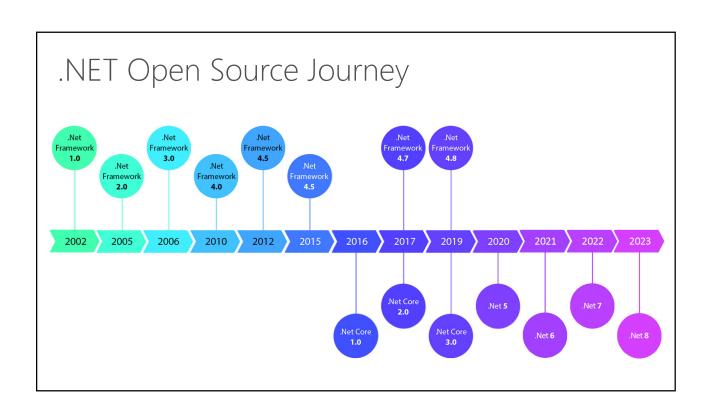


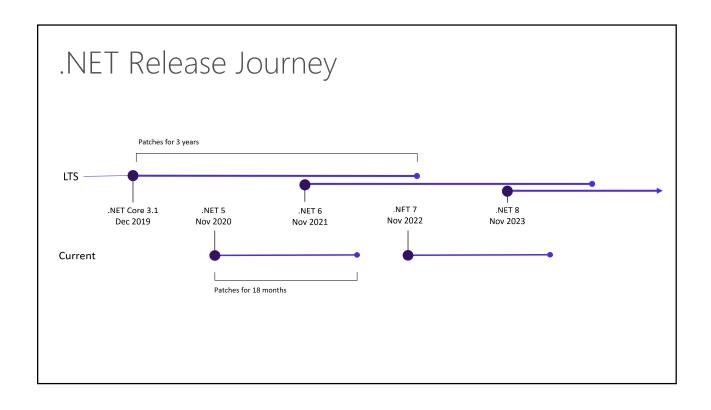


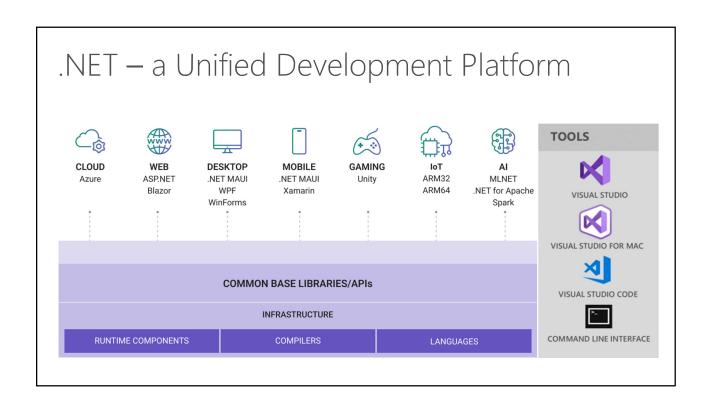


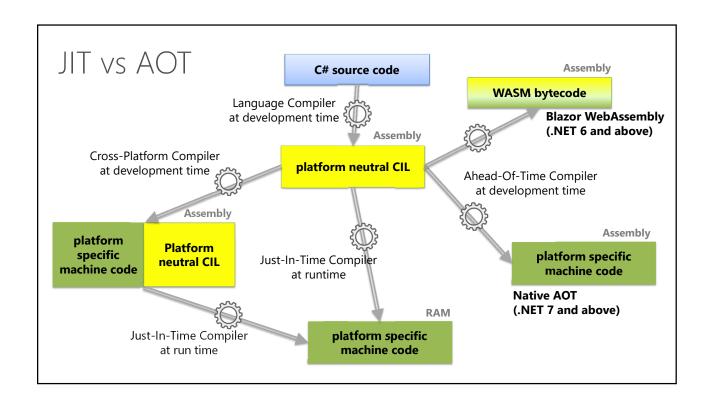


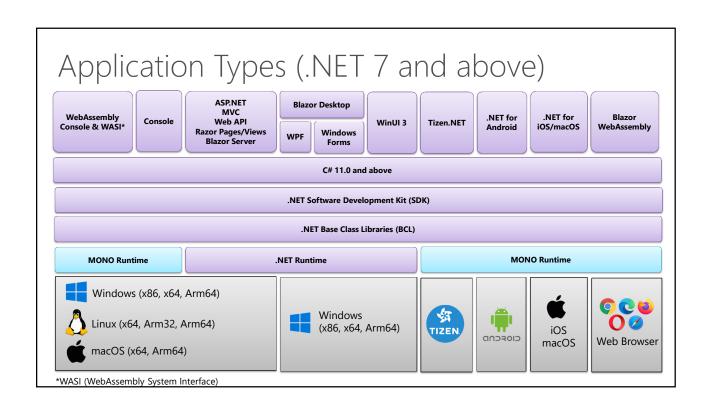




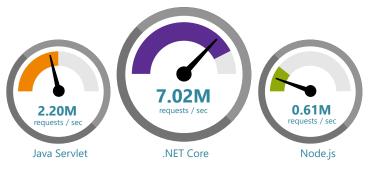








.NET is Fast. Really Fast!



Data sourced from official tests available at TechEmpower Round 21.

"Using the same-size server, we were able to go from 1,000 requests per second per node with Node.js to 20,000 requests per second with .NET Core."

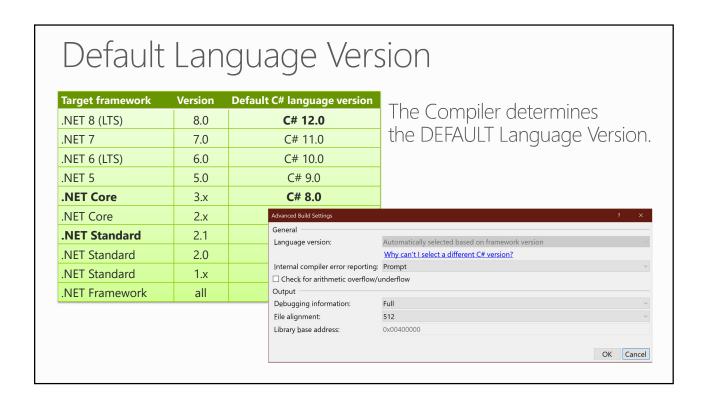
— Raygun

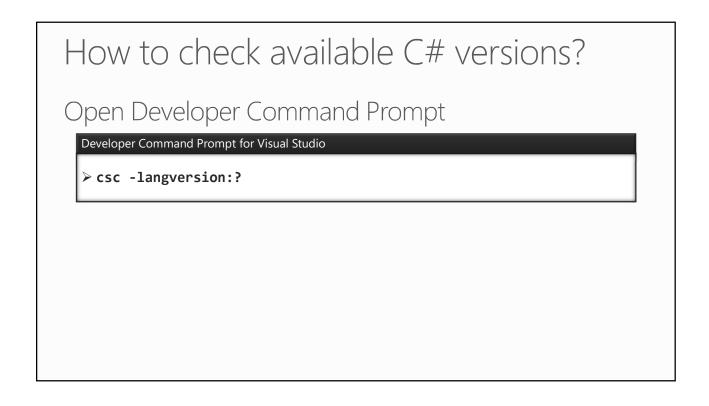
https://www.microsoft.com/net/customers

C# Language

- C#1 (Jan 2002 Apr 2003)
- C#2 Generics (Nov 2005)
- C#3 LINQ (Nov 2007)
- C#4 dynamic (Apr 4.0)
- C#5 async/await, Task (Aug 2012)
- C#6 Roslyn, string interpolation, name of (Jul 2015)
- C#7 out variables, discards (Mar 2017 May 2018)
- C#8 for .NET CORE Pattern Matching, Async Streams, Null-coalescing, etc. (Nov 2019)
- Emergence of .NET Standard
- C#9 with .NET 5 code generators, lambda discards (Nov 2020)
- C#10 record structs, const interpolated string, global usings (Nov 2021)
- C# 11 generic math (Nov 2022)
- C# 12 (Nov 2024)

24





How to use C# Specific Version

To override the DEFAULT version to use C# 8.0:

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Thank You