

WHATS NEW IN

C# 10 AND .NET 6

Who is Chad Green

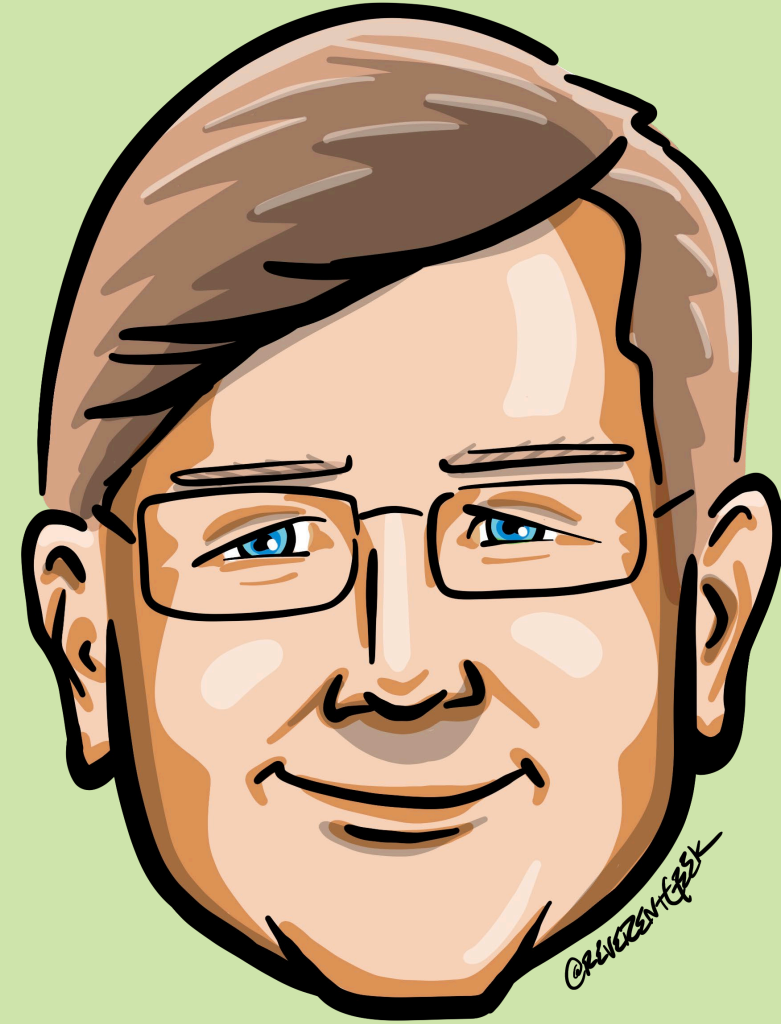
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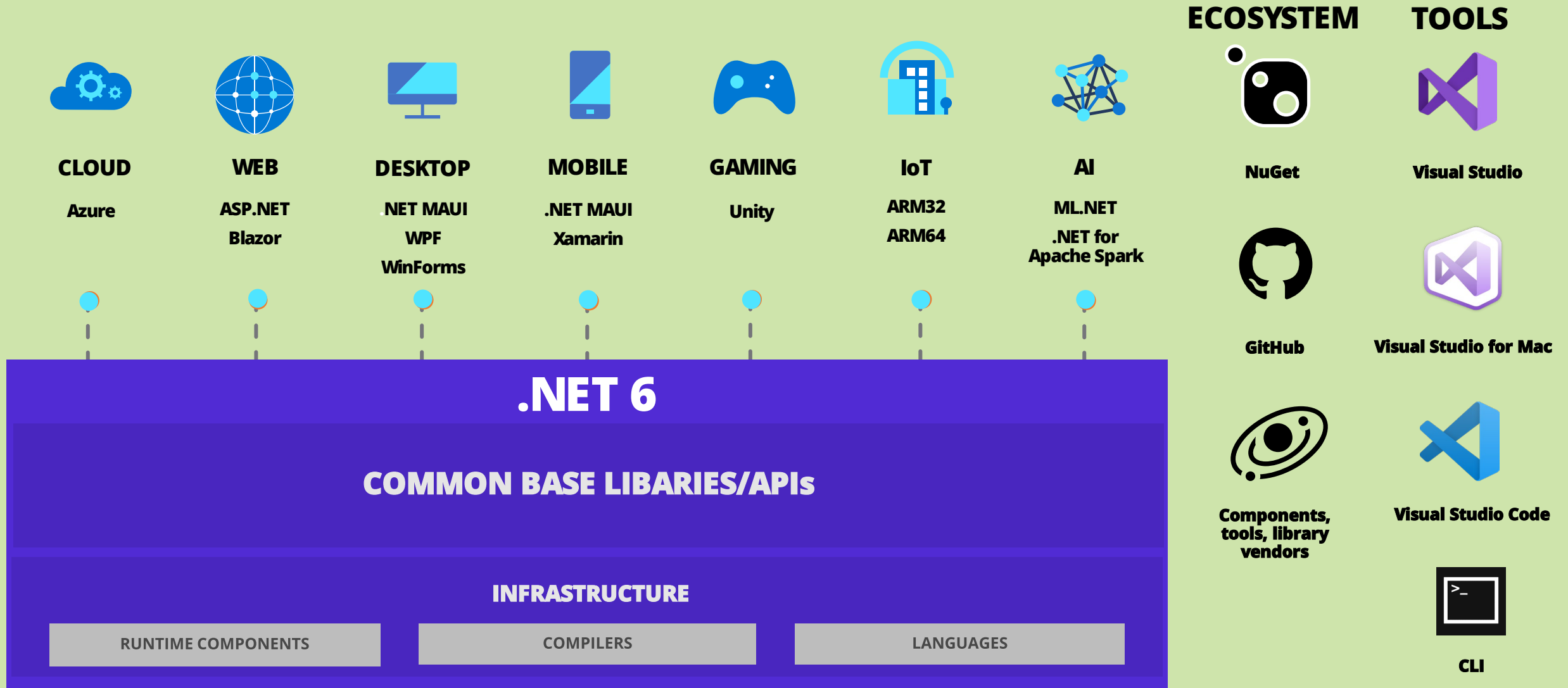
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IT'S SOFTWARE DEVELOPMENT MADNESS

August 17 – 19, 2022

Cyber Week Specials

.NET – A unified development platform



.NET 6

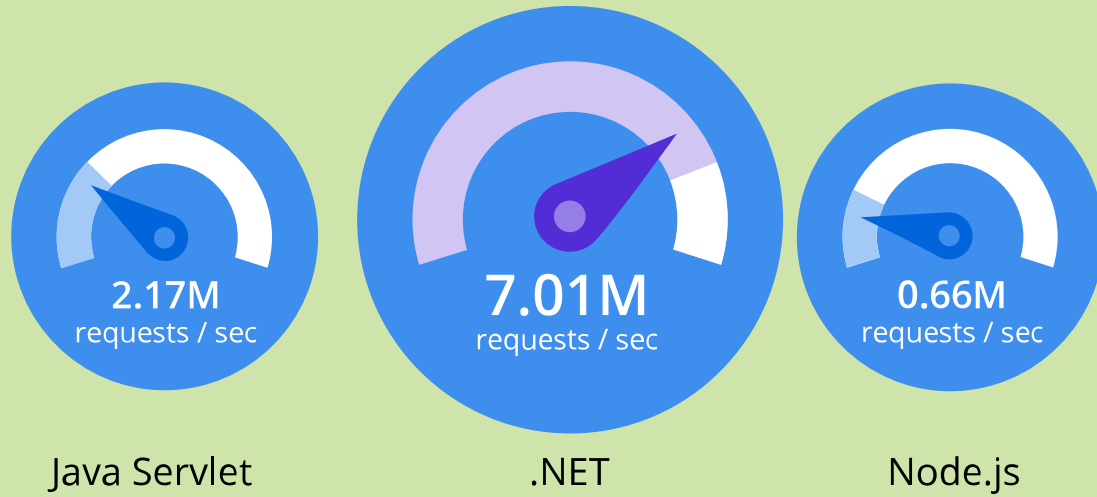
Unified common base libraries & SDK

.NET 6

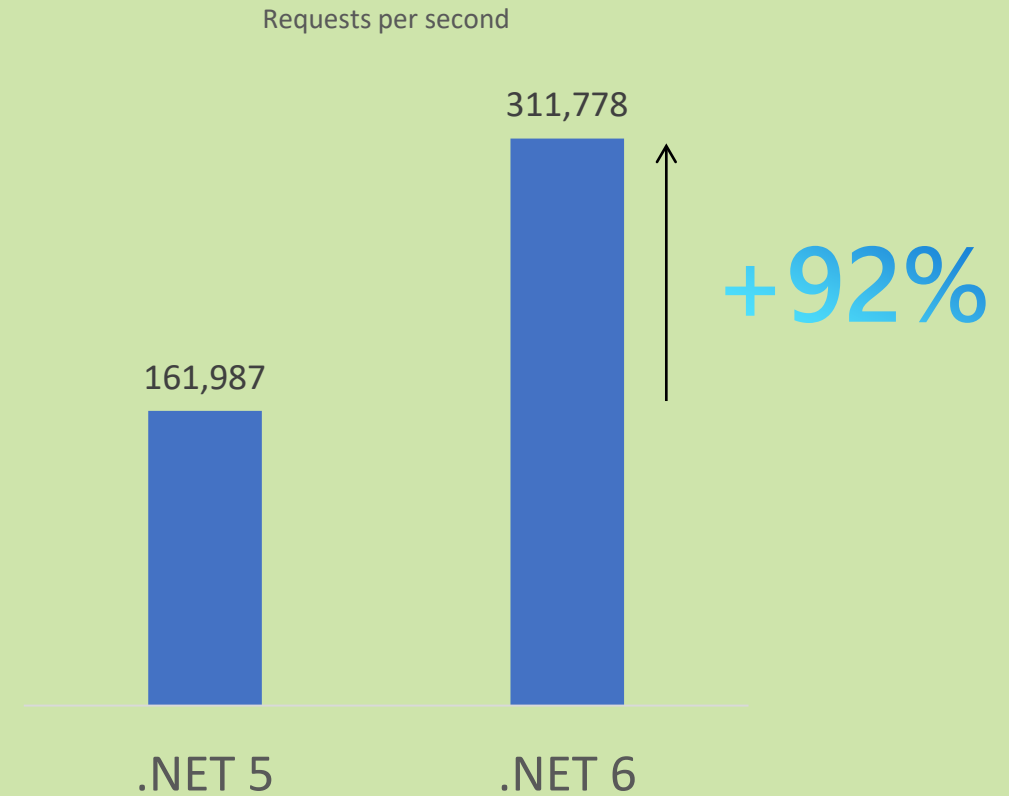
Unified common base libraries & SDK

Industry leading performance

.NET 6 Performance



> 10X faster than Node.js
ASP.NET Core web framework



.NET 6

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Simplified development, easier to get started

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New C# 10, F# 6 releases

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Long-Term Support Release

- Production stress-tested
- Supported for three years
- Unified platform
- Performance
- C# 10
- Visual Basic
- Hot Reload
- Cloud diagnostics
- JSON APIs
- Minimal APIs
- Blazor
- Web Assembly AOT
- Single-page apps
- HTTP/3
- File IO
- Security
- Single-File apps (extraction free)
- IL trimming
- Source generators and analyzers
- Source build

C# Evolution



- Record struts
- Improvements of structure types
- Interpolated string handlers
- Global using directives
- File-scoped namespace declarations
- Extended property patterns
- Improvements on lambda expressions
- Allow const interpolated strings
- Record types can seal ToString()
- Improved definite assignment
- Allow both assignment and declaration in the same deconstruction
- Allow AsyncMethodBuilder attribute on methods
- CallerArgumentExpression attribute
- Enhanced #line pragma

Entity Framework Core 6

What's New in C# 10 and .NET 6

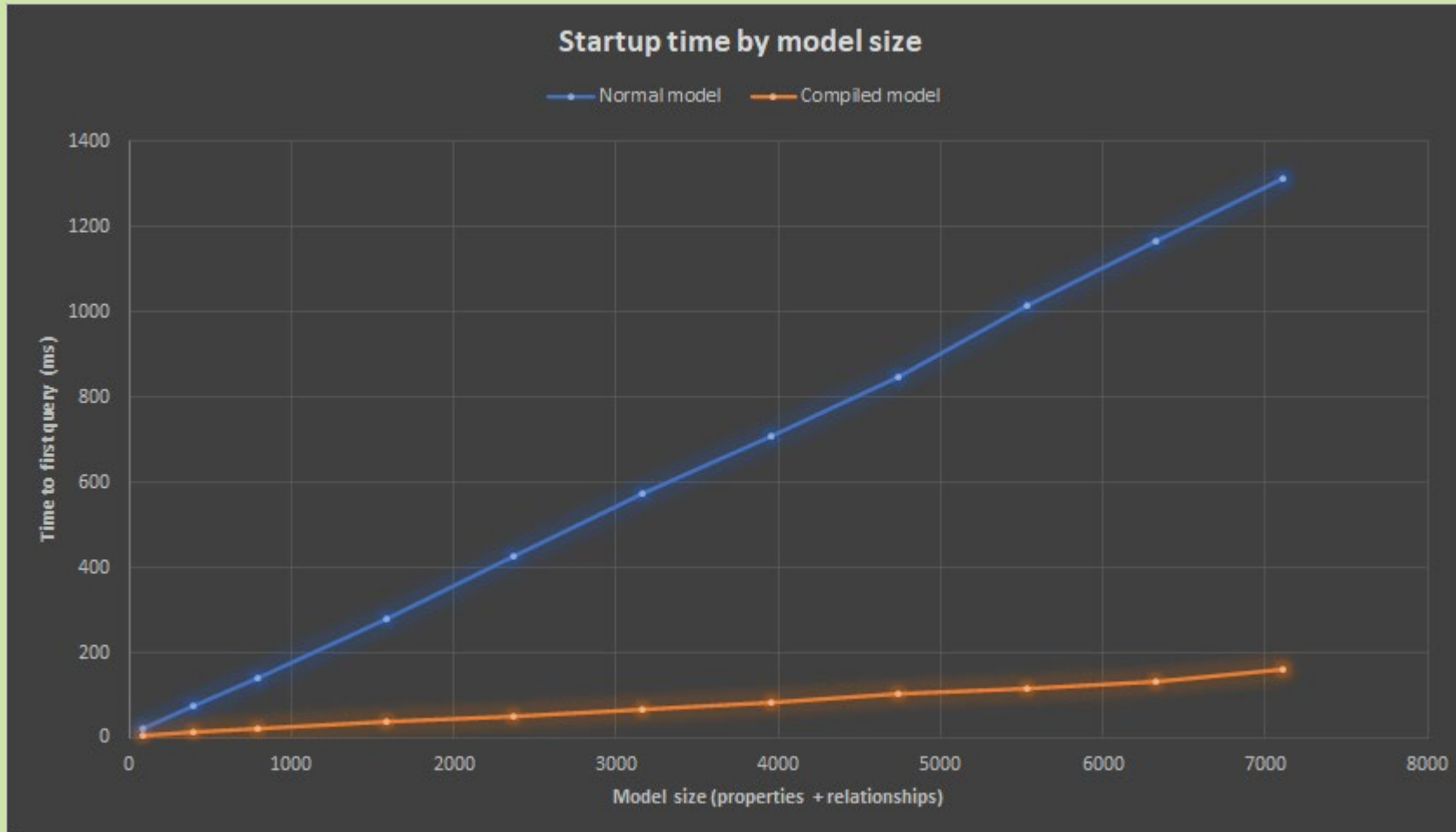
Entity Framework Core 6

Migration Bundles

Entity Framework Core 6

Compiled Models

Entity Framework Core 6



Entity Framework Core 6

**Improved Performance
on TempEmpower
Fortunes**

Entity Framework Core 6

Cosmos Provider Enhancements

Entity Framework Core 6

Miscellaneous Improvements

ASP.NET Core 6

What's New in C# and .NET 6

ASP.NET Core 6.0

Minimal APIs

ASP.NET Core 6.0

Async Streaming

ASP.NET Core 6.0

Bootstrap 5.1

Null-State Analysis

CSS isolation for pages and views

ASP.NET Core 6.0

JavaScript modules

ASP.NET Core 6.0

Blazor Improvements

ASP.NET Core 6.0

.NET WebAssembly Build Tools

ASP.NET Core 6.0

Single-Page Apps

ASP.NET Core 6.0

Socket Control

Strongly-Typed Headers

ASP.NET Core 6.0

HTTP & W3C Logging

ASP.NET Core 6.0

HTTP/3

De m o T i m e



Thank You!

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