

# State of .NET

## .NET Conf Recap

Markus Egger

President and Chief Software Architect

CODE Magazine & Consulting

# Kicking Things Off

## Jim Duffy

- Director of Business Development  
CODE Magazine & Consulting
- Former Developer – Drawn to the Dark Side: Now Responsible for  
Marketing & Business Development
- [jduffy@codemag.com](mailto:jduffy@codemag.com) / [My Bio](#)
- International Author and Speaker
- Former Microsoft RD (Regional Director) 9 years
- Former 11 time Microsoft Most Valuable Professional (MVP)
- Twitter: @jmduffy



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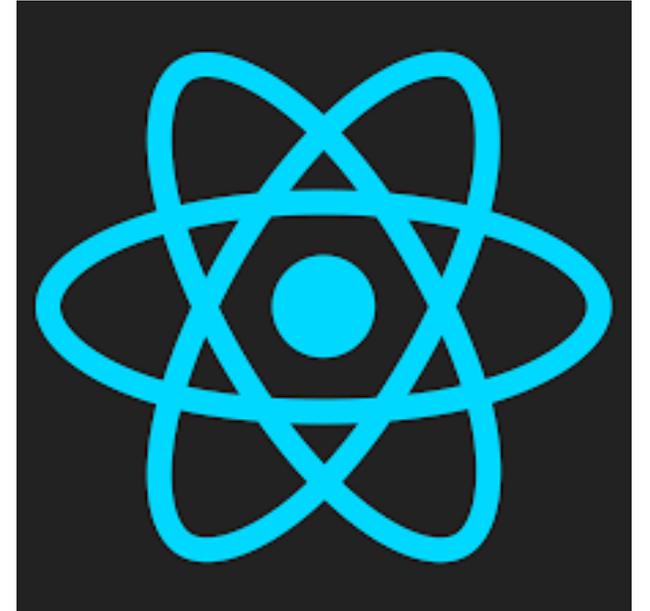


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<https://bit.ly/3Fq1TOr>



# Reference Links

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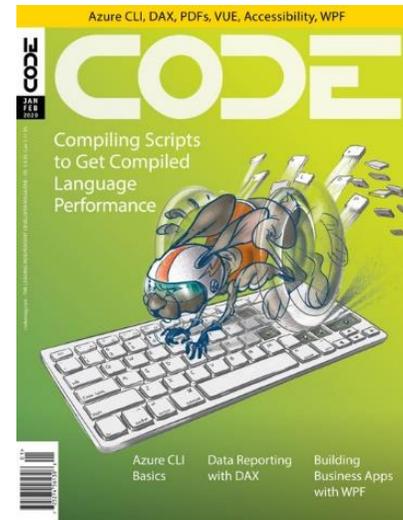
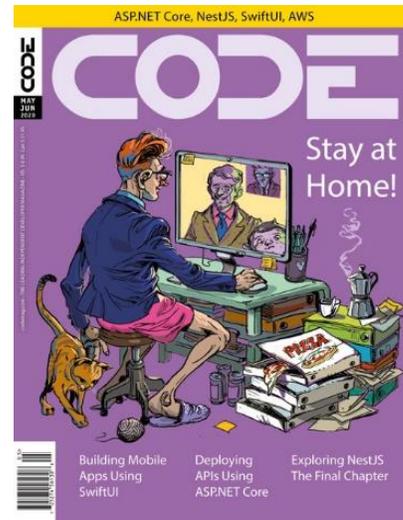
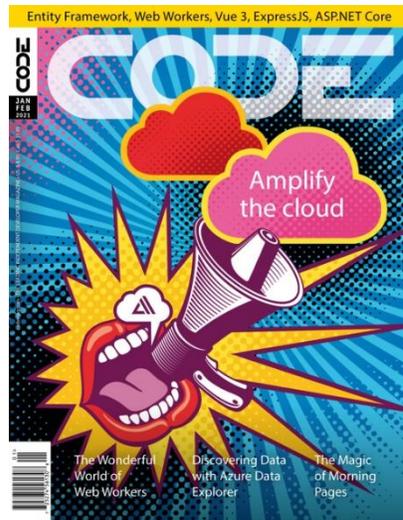
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- Survey must be completed by 11:59pm ET on Friday 11/19/2021 to be eligible!
- Name selected from registered attendee list. Completed survey is required to win.

## State of .NET - .NET Conf Recap

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Thank you for attending! Please complete this brief survey. Yes, we still want to hear from you if you were unable to attend but watched the recording instead. :-)

\* Required

1. Full Name \*

Enter your answer

2. Company Name \*

Enter your answer

...



THIS SLIDE WILL BE REPEATED AT THE END AND SURVEY LINK REPEATED IN THE CHAT WINDOW!

# Build Cross Platform Apps With Photino



- Build native, cross-platform desktop apps that are lighter than light.
- Lightweight **open-source** framework for building native, cross-platform desktop applications with Web UI technology.
- Photino is maintained by the CODE Magazine team with the help of the open-source community.
- [tryphotino.io](https://tryphotino.io)
- [Github.com/tryphotino](https://github.com/tryphotino)

# Prior Webinar Recordings

- Slides & Videos:
- State of .NET Webinar Series
  - <https://www.codemag.com/StateOfDotNet>
- CODE Presents Webinar Series
  - <https://www.codemag.com/CODEPresents>

## Recent Event Recordings

State of .NET - .NET 6 Preview

10/27/2021



State of .NET - Azure Architecture

9/29/2021



State of .NET - Windows 11 for Developers

7/28/2021



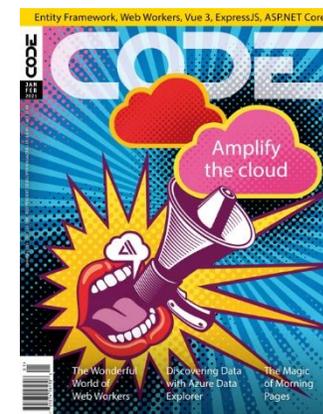
State of .NET - .NET 5 and .NET 6 Preview - with Markus Egger

6/30/2021



# About the Presenter

- **Markus Egger**
- President and Chief Software Architect  
EPS Software Corp. (dba CODE Consulting)
- Publisher – CODE Magazine
- International Author and Speaker
- Microsoft RD (Regional Director)
- Microsoft MVP 1995-2019
- [Email: markus@codemag.com](mailto:markus@codemag.com)
- Twitter: @markusegger



# Agenda

- Cliff-Notes Version of .NET Conf 2021
- Showing you some related information...
- ...and also, pointing you at cool content if you happen to be interested in a certain technology
- .NET 6 Released! - Overview
- Some areas we didn't spend time on at recent talks



# .NET Conf 2021 - Recap

# What is .NET Conf?

- Annual virtual .NET Conference put on by Microsoft
- .NET and Visual Studio Release Event
- Lots of usual content can be watched live and on-demand
  - It's our goal to help you filter through that and point you at what you might be interested in
  - And also, to give you an independent take on what was presented
- [www.dotnetconf.net](http://www.dotnetconf.net)

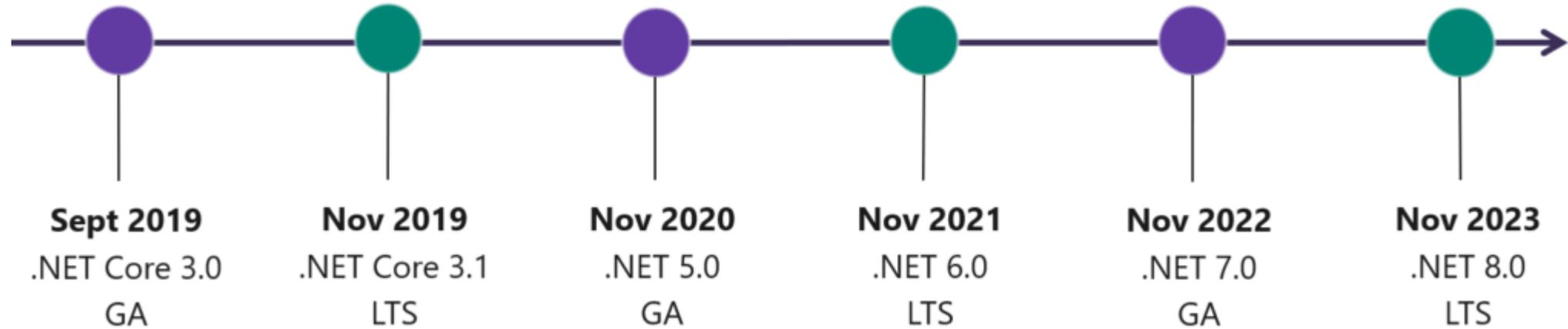
# Most Important Announcements

- .NET 6 is released as a LTS release
- Visual Studio 2022 (17.0) is released
- Visual Studio 2022 Preview (17.1) is now available
- Some early features for .NET 7 were discussed
- Also: .NET Framework 4.8.1 released

# Released: .NET 6!

- Unified common base libraries & SDK
- Performance improvements
- Simplified and streamlined development
- Easier to get started
- New C# 10 and F# 6 language releases
- Apple Silicon (Arm64) support
- Long-Term Support Release

# .NET Timeline/Roadmap



- .NET 6 Release: November 9<sup>th</sup>, 2021
- Annual, predictable releases (started with .NET Core 3.1)
- Minor Releases if needed

# .NET 6 on Azure

- All the key Azure services support .NET 6 in all regions on Windows and Linux
- Azure App Services
- Azure Functions
- Azure Static Web Apps
- ...

# Side-Note: CODE Focus Magazine - .NET 6

- We created CODE Focus issue on .NET 6
- Great source of free information
- Produced in conjunction with Microsoft
- All CODE Magazine subscribers get this special issue for free
- Free online content at [www.codemag.com/focus](http://www.codemag.com/focus)
- Get a free subscription at: [www.codemag.com/subscribe/CF2021](http://www.codemag.com/subscribe/CF2021)



# Side-Note: CODE Focus Magazine - .NET 5

- We also created CODE Focus issue on .NET 5
- Also produced in conjunction with Microsoft
- Content is still available online and very applicable today



# .NET 6 Overview

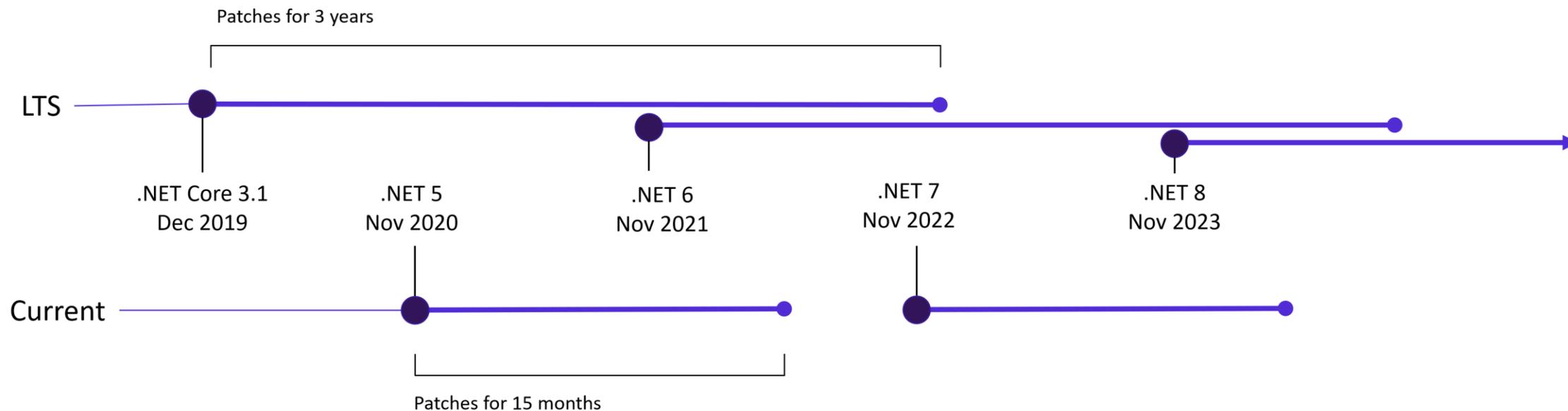
# The Journey to One .NET

- .NET now looks back at a history lasting two decades...
- ...with many twists and turns
- .NET Framework, .NET Core, Mono, Xamarin, UWP, Silverlight, Windows Phone,...
- Different components, project structures, APIs,...
- .NET 6 completes the journey to reunification of the .NET platform
- The goal is to get away from worrying about “what runs where” and simply “targeting .NET” with code that runs everywhere

# .NET 5 vs. .NET 6

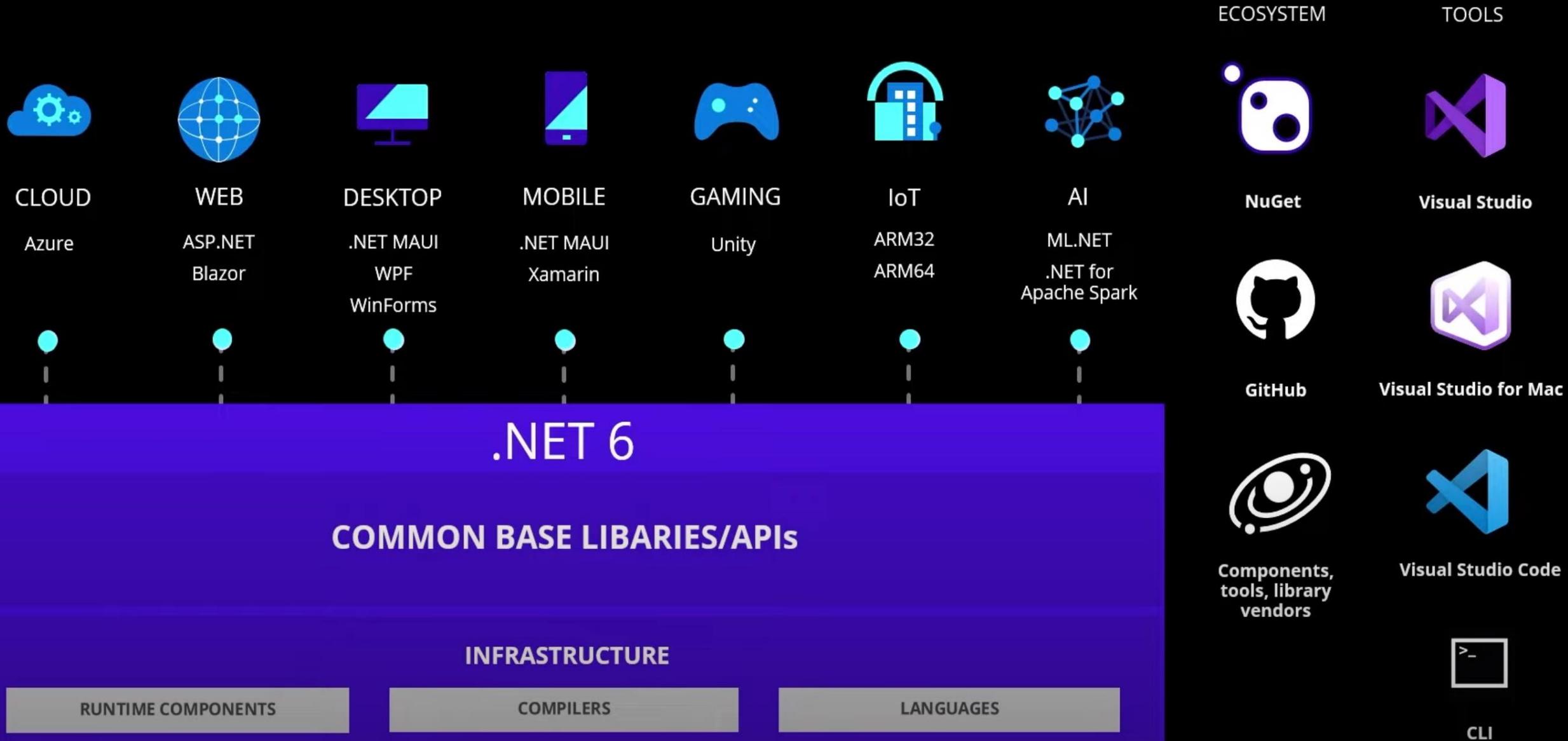
- Originally, .NET 5 was supposed to be “One .NET”...
  - ...but Covid (and probably a few other things) made that impossible
- In a way, many of the things I will say for .NET 6 today, you may have heard in similar fashion for .NET 5
- .NET 6 brings us full circle and provides the full vision for “One .NET”
- .NET 6 is the LTS (Long Term Support) version of the current generation of .NET
- .NET 6 may also be the most significant new .NET release since .NET Core 1.0, when you consider the support for new platforms (especially ARM64)

# GA/Current vs. LTS



- Current versions (GA) are supported 15 months
  - (3 months after the next version's release date)
- LTS versions are supported for 3 years
- It should be easy to update from GA to LTS versions

# .NET – A unified development platform



# .NET ecosystem momentum

> 5.4M

.NET developers

In Visual Studio family

#1

Most Loved Framework (2019, 20, 21)

.NET Core / .NET 5

Top 30

Highest velocity OSS projects since 2017

[github.com/dotnet](https://github.com/dotnet)



Top 5

Language on GitHub

C#



7X

Faster than Node.js

ASP.NET Core

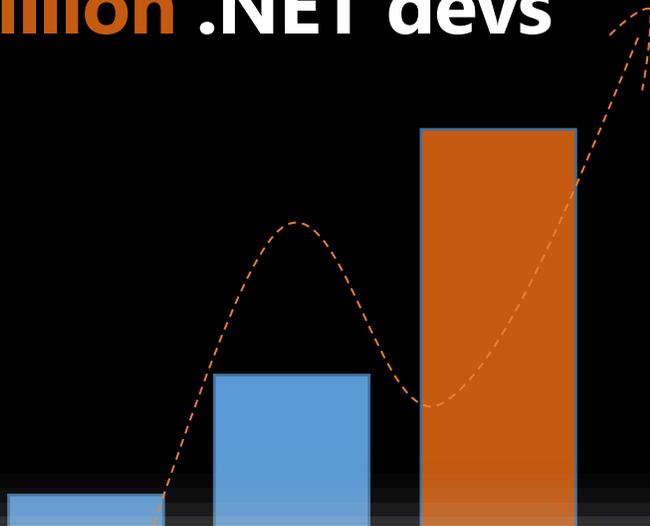
40%

New to .NET are students

dot.net download survey

# .NET adoption

**5.4 million .NET devs**



**Visual Studio**

**+1 million new**

Monthly active .NET developers in the last year

**.NET Core**

**+600K new**

Monthly active .NET Core developers in the last year

**.NET 6**

**>6.9K**

Community contributors

**>21K**

Community contributions

# .NET 6 Main Features

- C# 10 aims to simplify your code base
- Minimal Web APIs
- MAUI (Multi-Platform App UI) for cross-platform apps
- Blazor desktop web apps with native device capabilities
- More Device Targets
- WinForms and WPF on ARM64 and single EXE deployment
- Developer Productivity (like hot reload)
- Performance improvements in the runtime

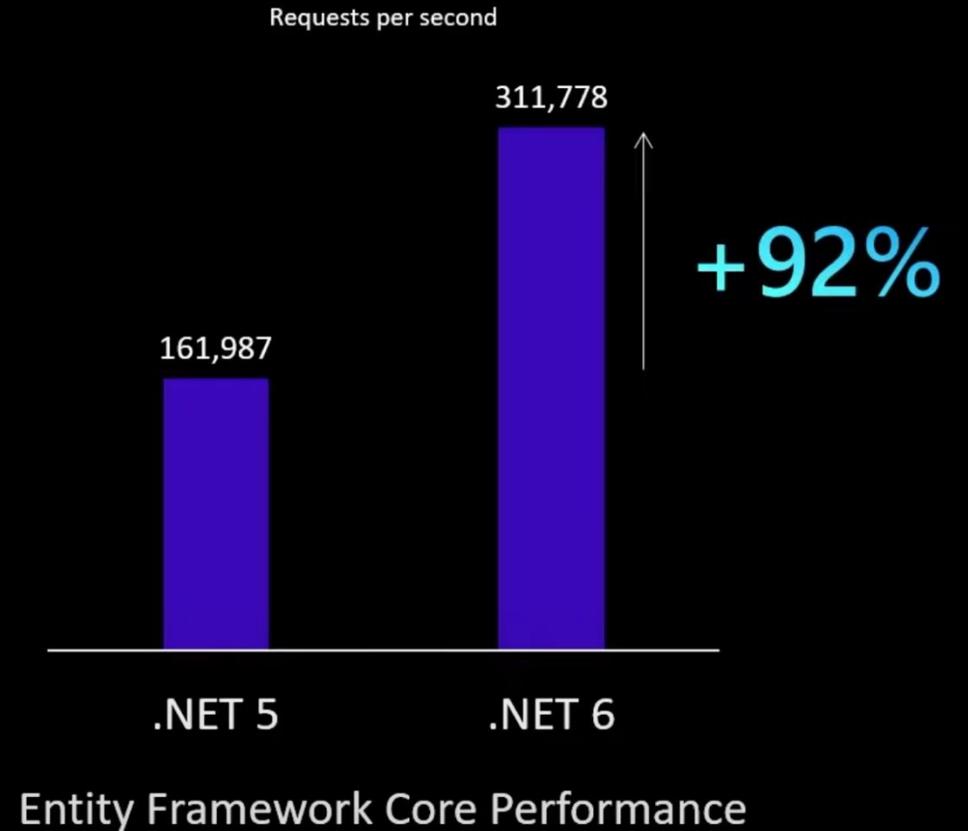
# ARM64

- .NET has many performance and size optimizations specifically driven by support for ARM chips
- ARM chips are very popular in phones, but they are also becoming more popular in laptops
- Surface Pro X is ARM-based
- Apple has announced that their future Apple Silicon-based Macs will be ARM based
- IoT devices are often based on ARM chips
- Raspberry Pi 3 & 4 are ARM-based

# .NET 6 Performance

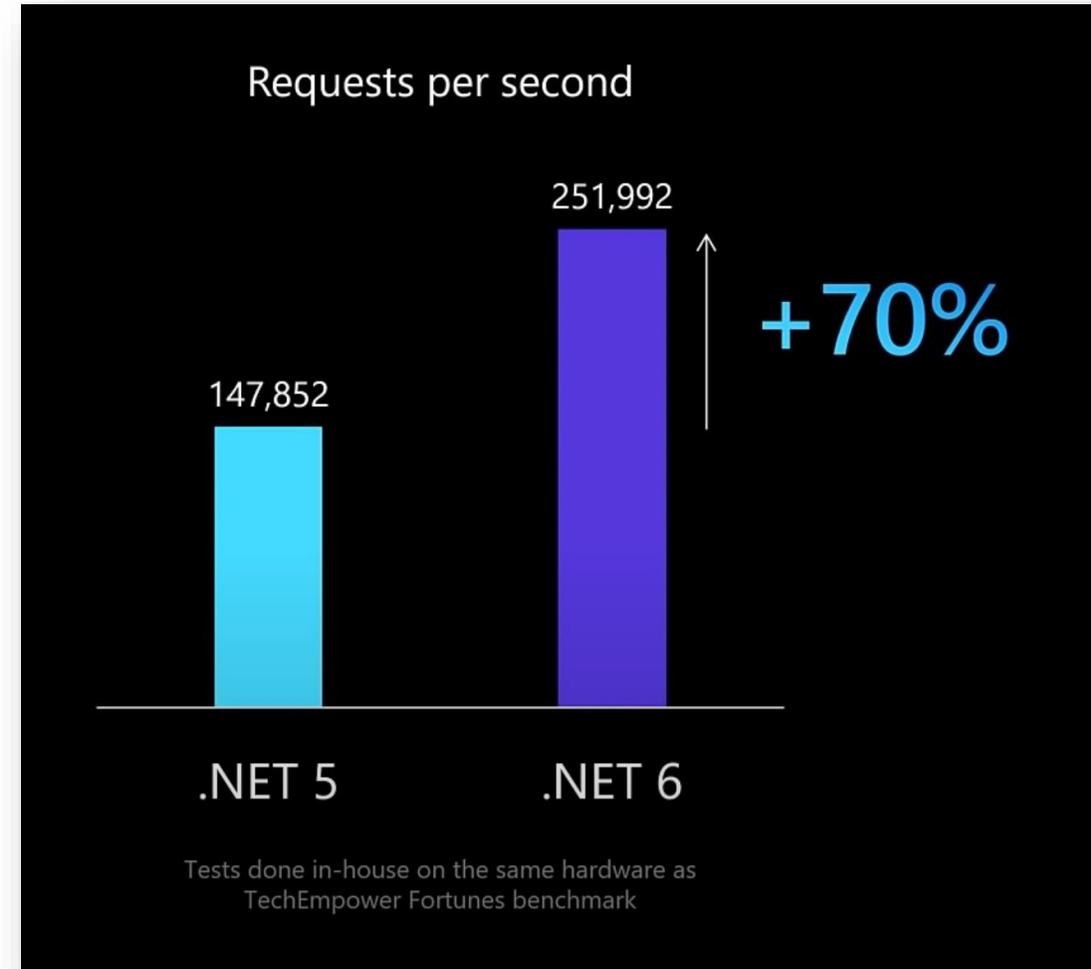


**> 10X** faster than Node.js  
ASP.NET Core web framework



# Entity Framework Core Performance

- 70% faster with .NET 6
- 31% faster query performance
- Up to 43% reduced memory allocation



# .NET 6 Performance Details

- For more details and specifics on performance improvements, check out our CODE Focus Magazine on .NET6!

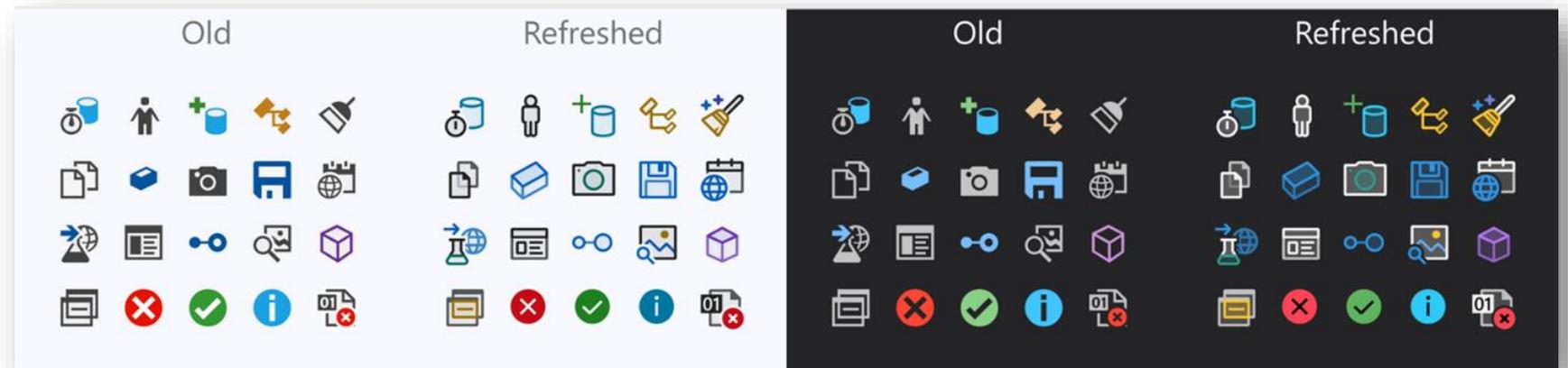
# .NET Upgrade Assistant

- <https://aka.ms/dotnet-upgrade-assistant>
- Helps to analyze and upgrade older codebases
- Understands dependencies
- Provides guidance and assistance
- Surprisingly capable and extensible conversion tool
- Multiple project types supported (and more coming)
  - Class libraries, Console apps, ASP.NET MVC and WebAPI, WinForms and WPF projects
  - C# and Visual Basic

# Visual Studio 2022

# What's New in VS 2022

- Native 64-bit Application
- Improved performance, especially on very large projects
- Improved look with new icons and colors
- Improved color themes and customizations
- Improved debugging and productivity
- AI IntelliCode



# Cool New Editor Features

- Inheritance Margins
- Inline Hints
- Improved Refactoring
  - Including Refactoring from the Solution Explorer
- Remove Unused References
- Improved EditorConfig files (and application of styles after the fact)
- Improved IntelliSense Completions (date/time and regex)
- IntelliCode suggestions based on AI

# Debugger Improvements

- Improved Breakpoint Management
- Remote debugging/testing
- ...

# GitHub and Azure DevOps Improvements

- Improved Git integration
  - In the Git UI...
  - ...as well as the editor window
- Improved repository management

# Visual Studio AI IntelliCode

- IntelliCode analyzes your editing patterns to provide various AI-driven features
- Auto-completions
- Auto-refactorings

# Hot Reload

- Edit & Continue on steroids
- Applies code changes while debugging without restarting the debug session (not even behind the scenes)

# New Razor Editor

- Better support for editing Razor files
- Including refactorings and code fixes
- Improved syntax coloring
- Go-to-definition
- Filtering in IntelliSense

# Visual Studio Code

- Visual Studio Code remains a highly popular editor for editing code-based assets
- Visual Studio Code is now available as a browser-based version in addition to the stand-alone app
  - It can also be used directly from GitHub

# Recommended Related Sessions

.NET Conf 2021

Speed up your .NET development with Hot Reload



HOSTED BY  
Dmitry Lyalin

28:21

Speed up your .NET development with Hot Reload

dotNET • 1.2K views • 6 days ago

<https://aka.ms/dotNETConf2021-GetdotNET6> With .NET Hot Reload our goal is to save you as many app restarts between edits as possible, making you more productive by reducing the time you spend...

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.NET Conf 2021

Build .NET Applications with Visual Studio Code



HOSTED BY  
Luis Quintanilla  
Maria Naggaga

28:01

Build .NET Applications with Visual Studio Code

dotNET • 3.4K views • 4 days ago

<https://aka.ms/dotNETConf2021-GetdotNET6> VS Code, along with its extensions for .NET development, provides you with a lightweight environment for writing code in C# and F# on macOS and Linux,...

.NET 6 – C# 10

# C# 9 and C#10

- C# now releases a major version in sync with .NET releases
  - C# 9 = .NET 5
  - C# 10 = .NET 6

# C# 9: Quick Recap

- Top-Level Statements
- Record Types
- Init-Only Setters
- Enhanced Pattern Matching
- Various simplified expressions (such as `new()` statements)

# What's new in C# 10

- Required initializers
- `field` keyword in get/set
- Null parameter checking (`string foo!!`)
- `global using` directives
- Namespace declarations with semi-colons (apply for the whole file)

# C# 10 Simplifications

- Simplification of simple apps

```
using System;

namespace HelloWorld
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello World");
        }
    }
}
```

```
using System;
Console.WriteLine("Hello World!");
```

C# 9

```
// some other file
global using System;

// current file
namespace HelloWorld;
Console.WriteLine("Hello World!");
```

C# 10

# Single File Applications

- .NET aims to re-introduce the experience of publishing small, self-contained version of applications
  - Across all .NET application formats (Windows, Web,...)
  - Across all the platforms (Windows, Mac, Linux)
- Required Framework components are included in the deployment
- True xcopy-enabled, single-file executables
- Assembly Trimming
- .NET has come a long way for this

# Recommended Related Sessions



.NET Conf 2021

## What's new in C# 10

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Mads Torgersen  
Dustin Campbell

29:28

### What's new in C# 10

dotNET • 29K views • 7 days ago

<https://aka.ms/dotNETConf2021-GetdotNET6> C# 10 brings many improvements focused around enabling cleaner and simpler code in many scenarios.

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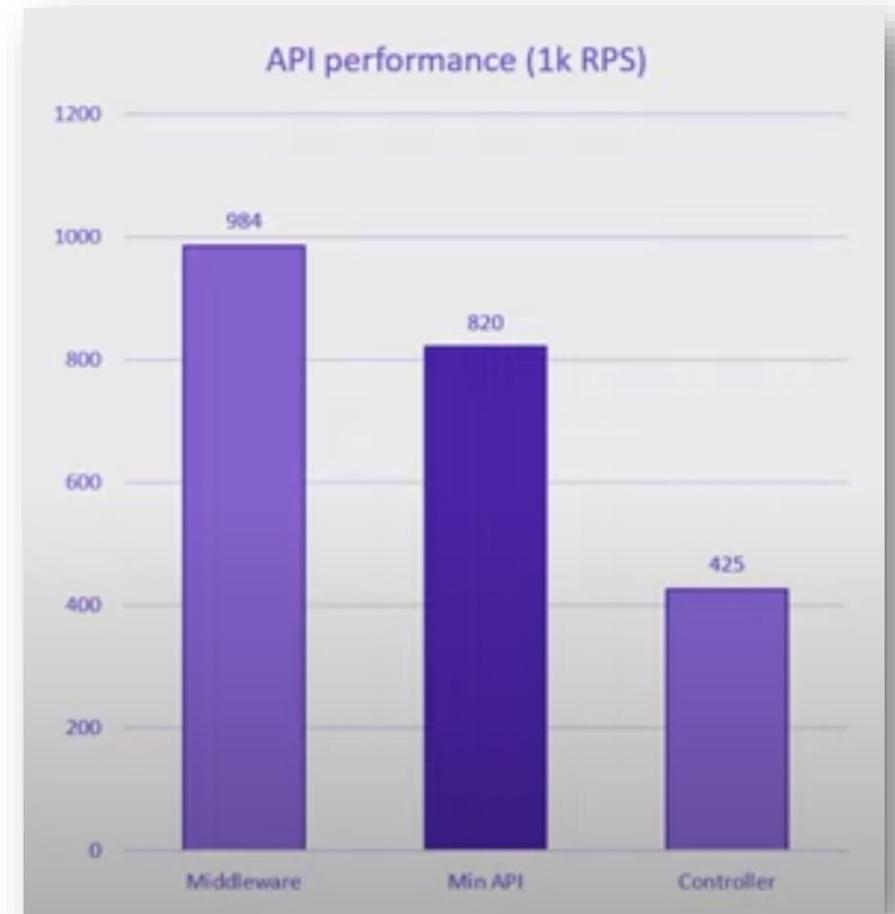
.NET 6 - ASP.NET

# What's new in MVC & Razor Pages

- Streamlined experiences with things like “minimal APIs”
- Hot Reload to increase productivity and overall development experience
- Improved performance and memory usage
- Better integration with front-end frameworks
  - JavaScript as well as Blazor
  - Various default references have been updated to the latest versions (such as Bootstrap, Azure, REACT,...)
- Better design-time experience for Razor Pages

# Performance

- HTTP APIs – pay for play
  - ~5% RPS gain for middleware in .NET 6
  - New min API twice as fast as API controllers
- Faster JWT authentication
  - ~40% faster gain in JWT middleware
- MVC on Linux
  - ~12% faster thanks to faster logging
- More efficient MemoryCache
  - ~10% RPS gain on cache TechEmpower benchmark
- Reduced memory usage per https connection
  - ~70% working set reduction for idle WebSocket connections
- HTTP/2 & gRPC
  - Improvements to HttpClient connection management
  - ~20% faster Protobuf serialization



# Minimal APIs

- Minimal APIs are an attempt at simplifying the creation of simple Micro-Services by reducing all unnecessary clutter
- Combination of ASP.NET and C# 10 features
- Important: Minimal APIs are an optional feature, and all the conventional approaches still work!

# .NET 6/C# 10 Minimal APIs

```
using Microsoft.AspNetCore.Builder;
```

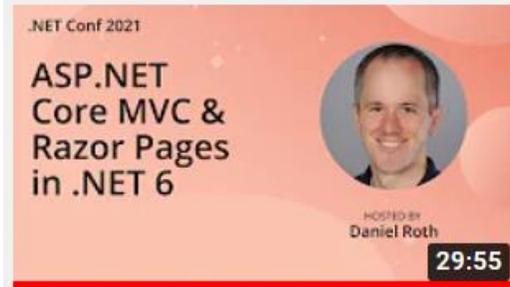
```
var app = WebApplication.Create(args);
```

```
app.MapGet("/", (
```

```
app.Run());
```

```
using var httpClient = new HttpClient();  
httpClient.BaseAddress = new Uri("https://atlas.microsoft.com/weather/");  
var baseQuery = $"api-version=1.0&subscription-key={app.Configuration["SubscriptionKey"]}&unit=imperial";  
  
Task<T> GetAsync<T>(string path, string query) => httpClient.GetFromJsonAsync<T>($"{{path}}?{{baseQuery}}{query}");  
  
app.MapGet("/weather/{location}", [EnableCors("weather")] async (Coordinate location) =>  
{  
    var currentQuery = GetAsync<CurrentWeather>("currentConditions/json", $"&query={{location}}");  
    var hourlyQuery = GetAsync<HourlyForecast>("forecast/hourly/json", $"&query={{location}}&duration=24");  
    var dailyQuery = GetAsync<DailyForecast>("forecast/daily/json", $"&query={{location}}&duration=10");  
  
    // Wait for the 3 parallel requests to complete and combine the responses.  
    await Task.WhenAll(currentQuery, hourlyQuery, dailyQuery);  
  
    return new  
    {  
        CurrentWeather = currentQuery.Result.Results[0],  
        HourlyForecasts = hourlyQuery.Result.Forecasts,  
        DailyForecasts = dailyQuery.Result.Forecasts,  
    };  
});  
  
app.Run();
```

# Recommended Related Sessions

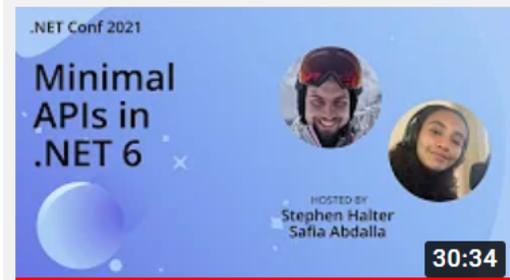


## ASP.NET Core MVC & Razor Pages in .NET 6

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<https://aka.ms/dotNETConf2021-GetdotNET6> ASP.NET Core & Razor Pages are the foundations for many modern web apps. Check out what's new for ASP.NET Core MVC & Razor Pages in .NET 6 including...

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## Minimal APIs in .NET 6

dotNET • 6K views • 5 days ago

<https://aka.ms/dotNETConf2021-GetdotNET6> In this talk, Safia and Stephen, developers from the ASP.NET team, will introduce you to minimal APIs, a new, low-ceremony way to build small HTTP...

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A new webinar series brought to you by CODE Magazine

# Minimal APIs

A webinar *and* CODE Magazine article presented by Shawn Wildermuth

Author, Teacher, and Filmmaker



Microsoft MVP  
.NET Foundation Board  
Member

**Wednesday Dec 8, 2021 @ 1:00pm Eastern (UTC-5) / 10:00am Pacific**

**<https://bit.ly/3289rHw>**

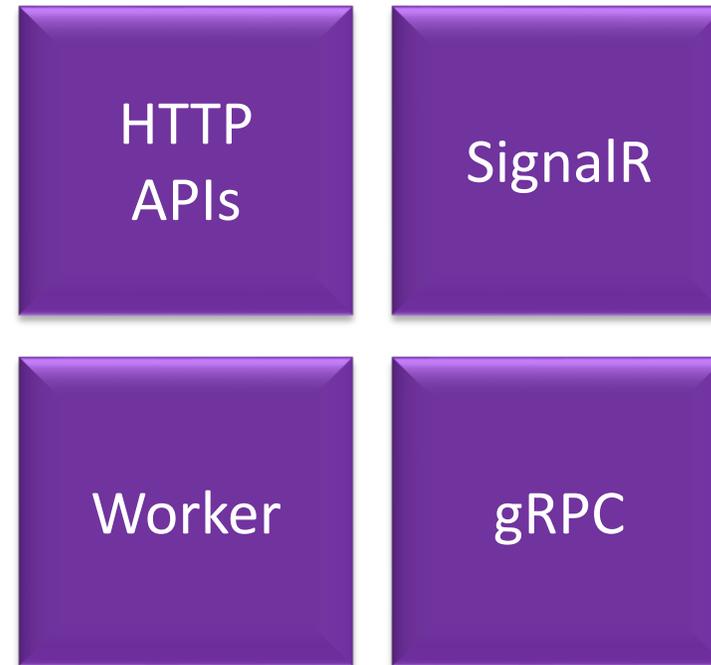
# Blazor Web Development

# Blazor: The Big Picture

## Web UI



## Services



# Why Blazor?

- Enables Full-Stack .NET Development, by bringing .NET to the client
- Provides a very nice, component-based model for HTML-based development
- Provides flexibility with client-based, server-based, and native scenarios all supported by the same framework
- A great way to unify all kinds of UI technologies, with Blazor Hybrid development
- A great way to provide another option for web development, based on personal choice, skills, existing components, and needs

# What's new in Blazor for .NET 6

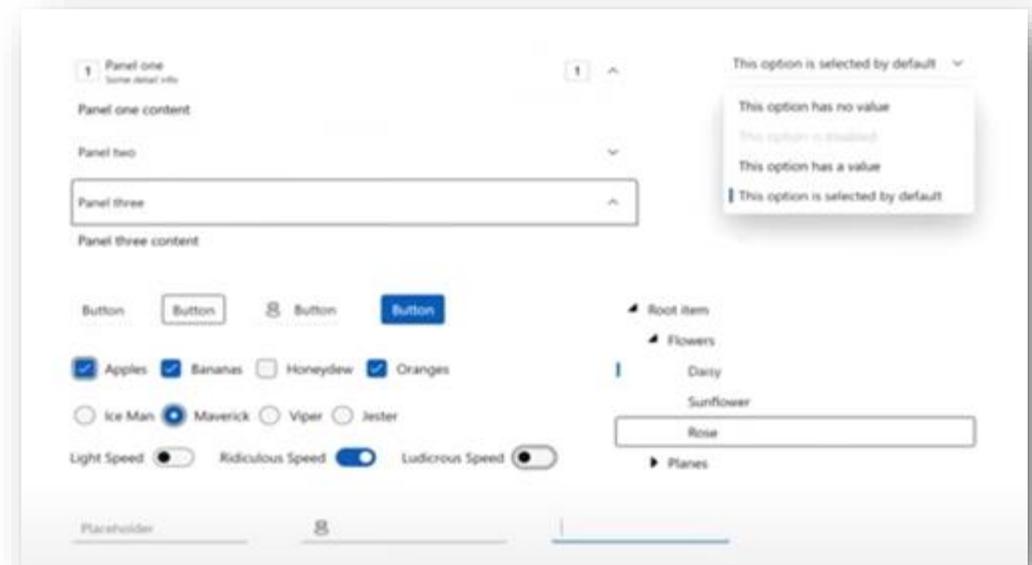
- Performance improvements
- Smaller download size
- Ahead-Of-Time (AOT) Compilation for better performance
- Code simplifications
- More integration with various other environments
- Hot reload
- Native dependencies
- ...

# Blazor WebAssembly Trimming

- .NET 5
  - Publish size: 1.7 MB
- .NET 6
  - Publish size 1.0 MB
- **~40% size reduction!**

# Blazor Fluent UI Components

- 40+ Blazor components
- Fully accessible with light, dark, and high-contrast modes
- Default styles match the latest Windows 11 Fluent visuals
- Integration with web, Windows, Teams, Office, and more



# Recommended Related Sessions



## Enterprise-grade Blazor apps with .NET 6

dotNET • 12K views • 5 days ago

<https://aka.ms/dotNETConf2021-GetdotNET6> Blazor in .NET 6 gives you the functionality you need to build real world apps of any size and...

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## New Blazor WebAssembly capabilities in .NET 6

dotNET • 26K views • 5 days ago

<https://aka.ms/dotNETConf2021-GetdotNET6> With .NET 6, the underlying .NET WebAssembly runtime supports entirely new kinds of...

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## Next-generation Blazor components with .NET 6

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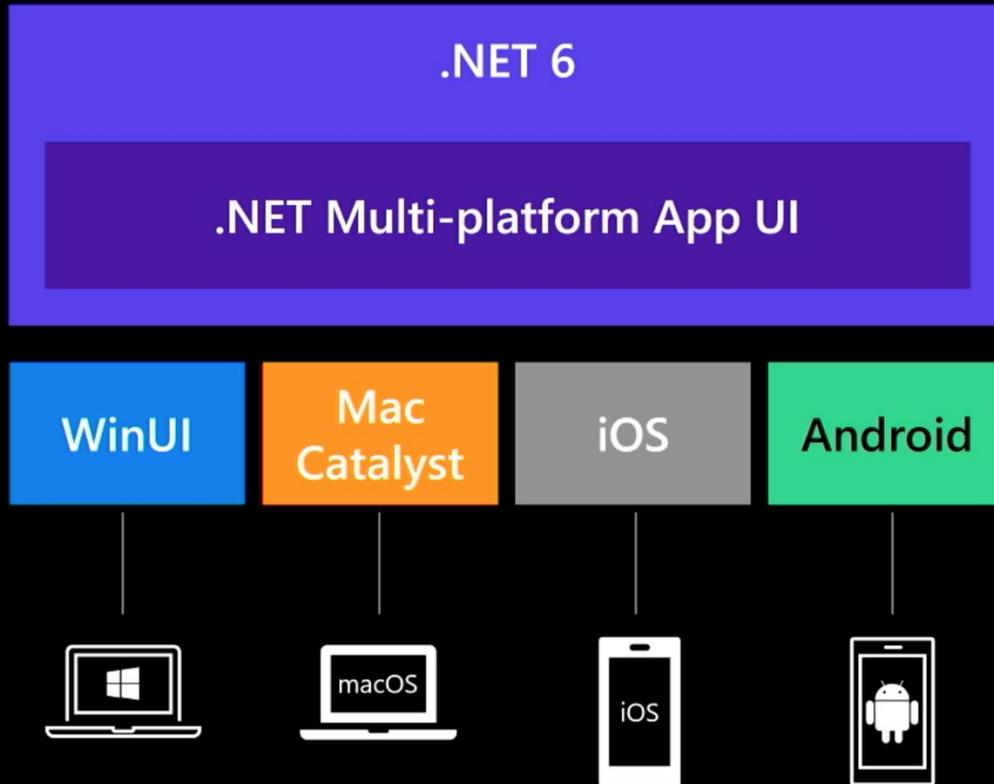
<https://aka.ms/dotNETConf2021-GetdotNET6> Blazor in .NET 6 enables building even more powerful and flexible web UI components. In this...

MAUI

# MAUI

- Multi-Platform Application User Interface
- MAUI is still in preview and will ship in 2022
- You need Visual Studio 2022 Preview 1
- Side-Note: Visual Studio for the Mac Preview

# .NET Multi-platform App UI



Cross-platform, native UI

Single project system, single codebase

Deploy to multiple devices:  
mobile and desktop

General availability in .NET 6

[github.com/dotnet/maui](https://github.com/dotnet/maui)

# MAUI + Blazor Together

# Blazor Hybrid

- Blazor Hybrid is an extension of Blazor
  - 3<sup>rd</sup> option in addition to Blazor Server and Blazor Web Assembly
  - Builds on top of .NET 6 and .NET MAUI
- Enables cross-platform development with native device access using Blazor
- It runs on Windows, macOS, iOS, and Android
  - Covers 95%+ of the market
- Implemented as a BlazorWebView control within MAUI

# Blazor Hybrid Thoughts

- No HTTP, no network, no browser sandbox
- The Blazor app runs locally on that machine in that process
- The only “web-like” aspect is that HTML is used for rendering the user interface
- Also works in WPF and WinForms
  - Although then the app is Windows specific

# Blazor Hybrid Benefits

- Reuse skills and code
- Access native device capabilities
- Mix native & Web UI
- No need to choose one platform over another



# Recommended Related Sessions



.NET Conf 2021

## Introduction to .NET MAUI

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Maddy Leger Montaquila

28:39

**Introduction to .NET MAUI** ⋮  
dotNET • 11K views • 5 days ago

<https://aka.ms/dotNETConf2021-GetdotNET6> .NET MAUI is the best way to build cross platform mobile and desktop apps with .NET and C#. Join Maddy Leger, .NET MAUI Program Manager, to get a first...

CC



.NET Conf 2021

## Build cross-platform native apps with .NET MAUI and Blazor

HOSTED BY  
Eilon Lipton

28:48

# Other Desktop Development

# Windows Development

- WPF and Windows Forms supported as first-class citizens in .NET
- Improved Designer Support (both WinForms and XAML)
- Improved ClickOnce Support
- WinUI

# Other Announcements

# Event Survey – Win \$100!

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<https://bit.ly/3Hwf42f>

- Survey must be completed by 11:59pm ET on Friday 11/19/2021 to be eligible!
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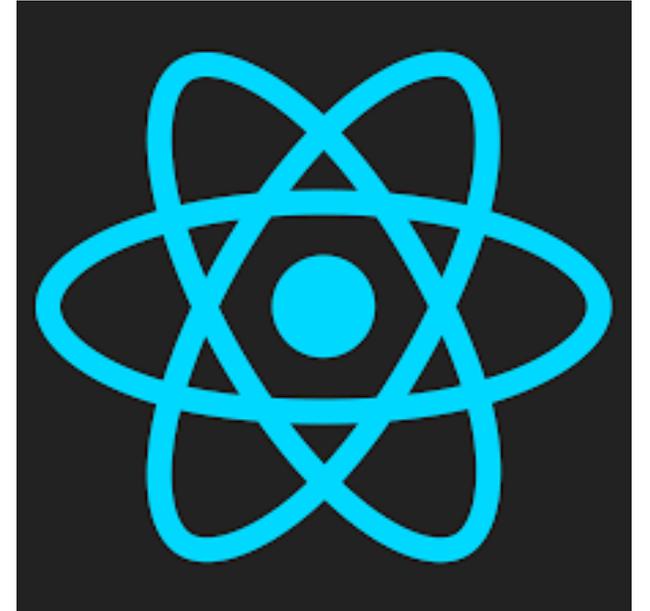
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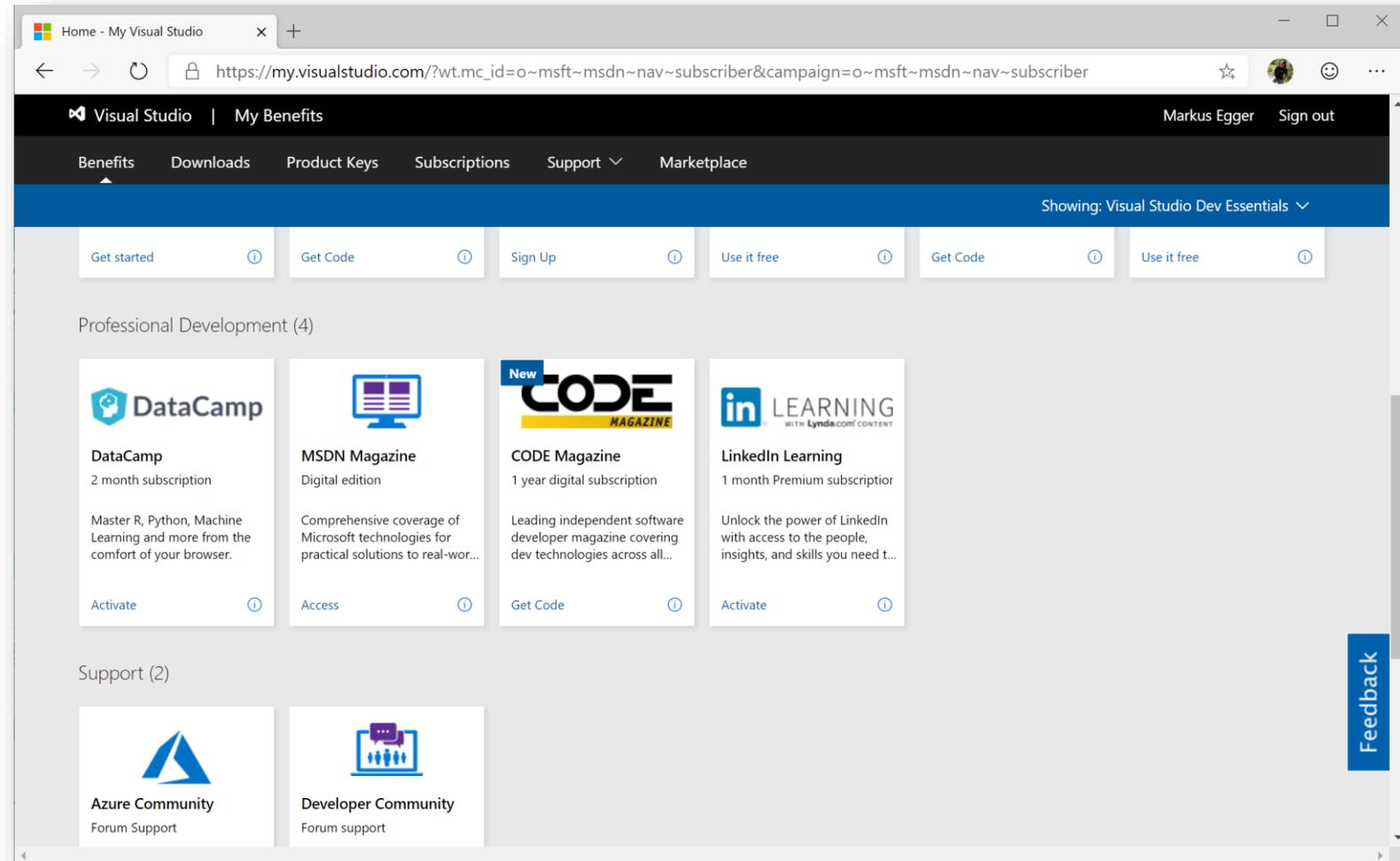
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