

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 / [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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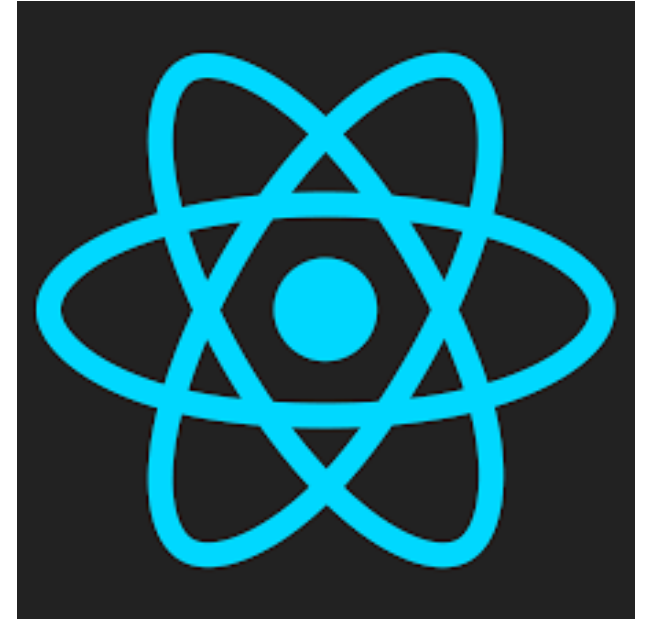


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or jduffy@codemag.com

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Reference Links

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<https://www.codemag.com/Write>

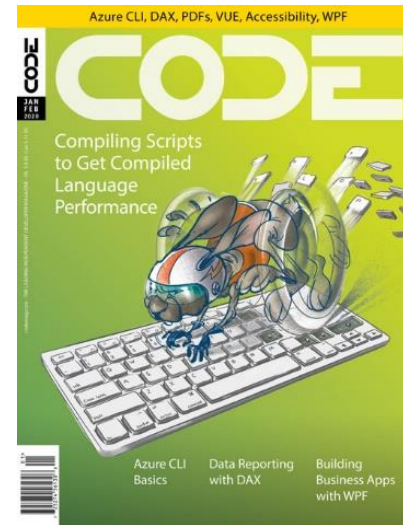
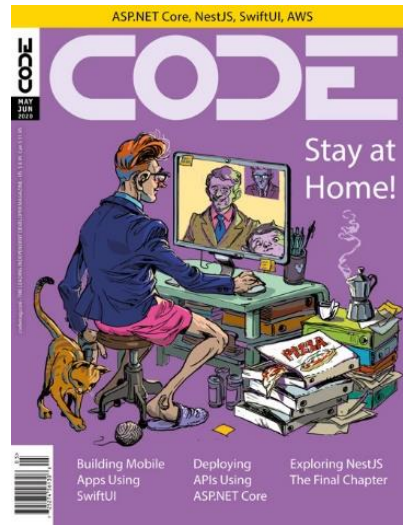
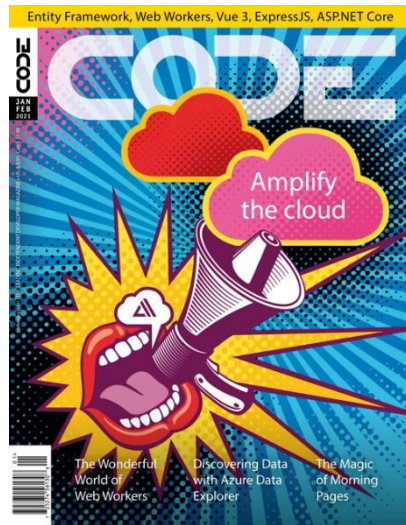
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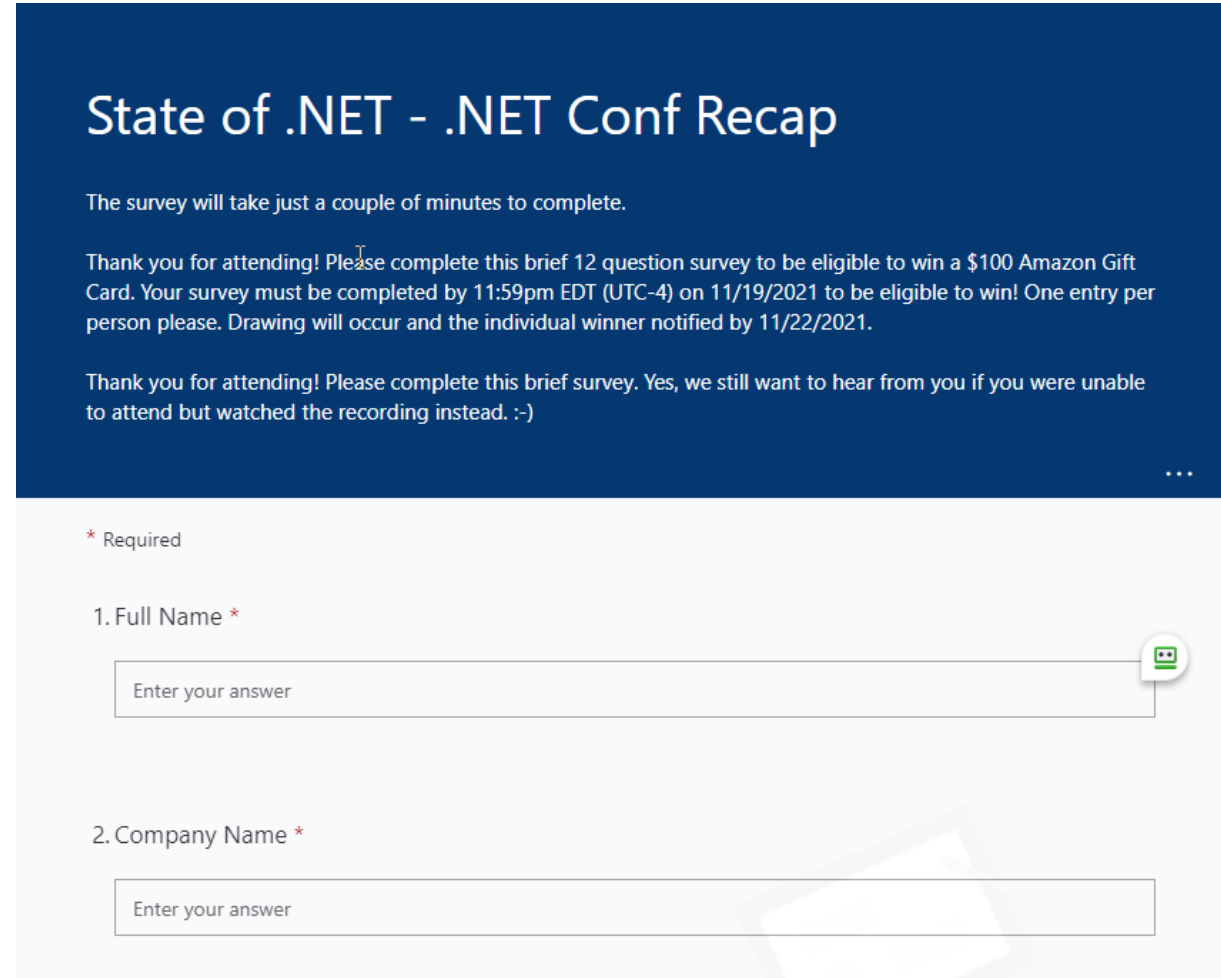


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- Complete this very short 12 question survey for a chance at a \$100 Amazon Gift Card!

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

- 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.



The screenshot shows a survey titled "State of .NET - .NET Conf Recap" on a dark blue background. Below the title, it says "The survey will take just a couple of minutes to complete." and "Thank you for attending! Please complete this brief 12 question survey to be eligible to win a \$100 Amazon Gift Card. Your survey must be completed by 11:59pm EDT (UTC-4) on 11/19/2021 to be eligible to win! One entry per person please. Drawing will occur and the individual winner notified by 11/22/2021." Below this, it says "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. :-)" and a three-dot menu icon. The survey form itself is on a light gray background and has a section for "Required" fields. The first field is "1. Full Name *" with a text input box containing the placeholder "Enter your answer" and a green chat icon on the right. The second field is "2. Company Name *" with a text input box containing the placeholder "Enter your answer".

State of .NET - .NET Conf Recap

The survey will take just a couple of minutes to complete.

Thank you for attending! Please complete this brief 12 question survey to be eligible to win a \$100 Amazon Gift Card. Your survey must be completed by 11:59pm EDT (UTC-4) on 11/19/2021 to be eligible to win! One entry per person please. Drawing will occur and the individual winner notified by 11/22/2021.

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...

* Required

1. Full Name *

Enter your answer

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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
- 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

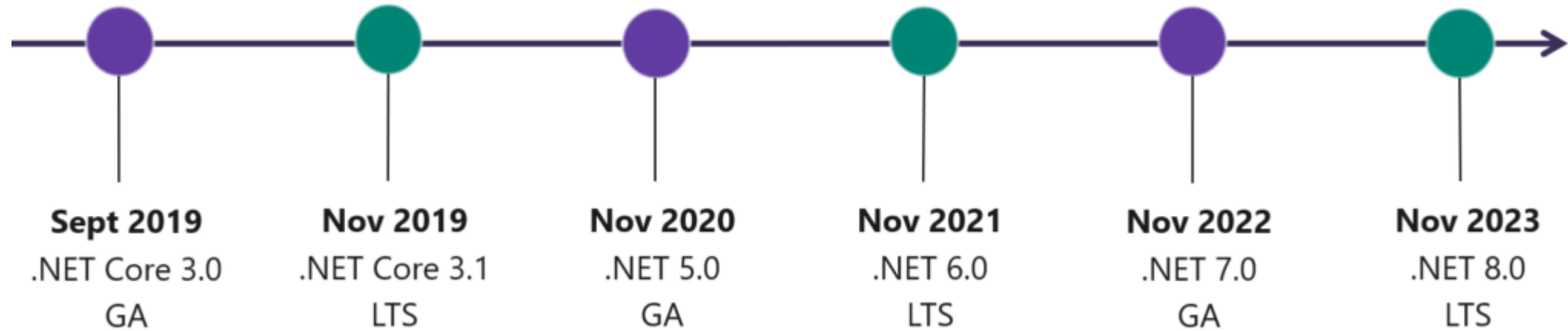
Most Important Announcements

- .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 9th, 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
- Get a free subscription at:
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

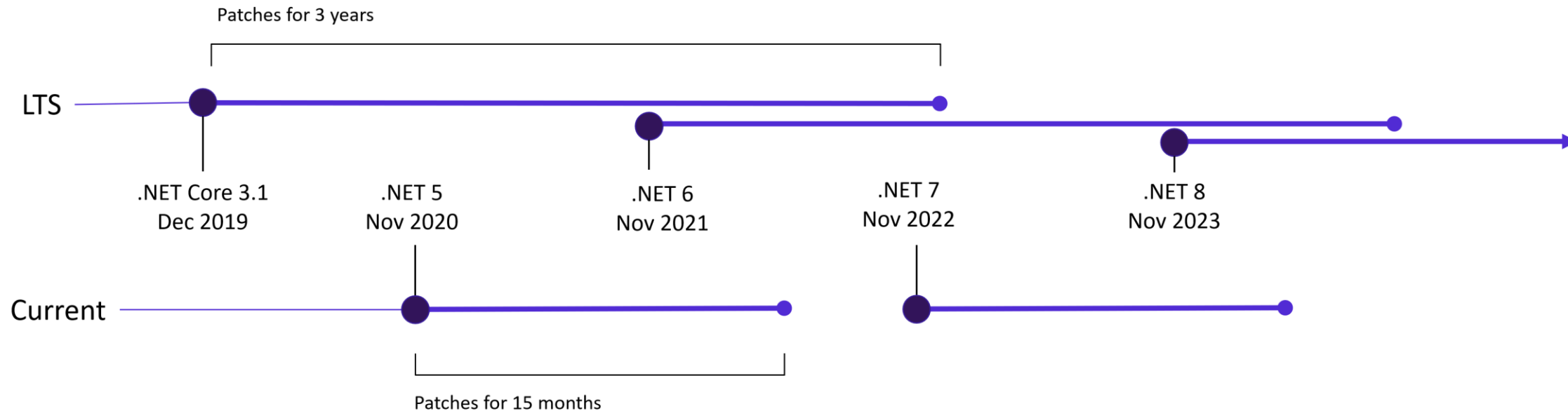
The Journey to One .NET

- .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

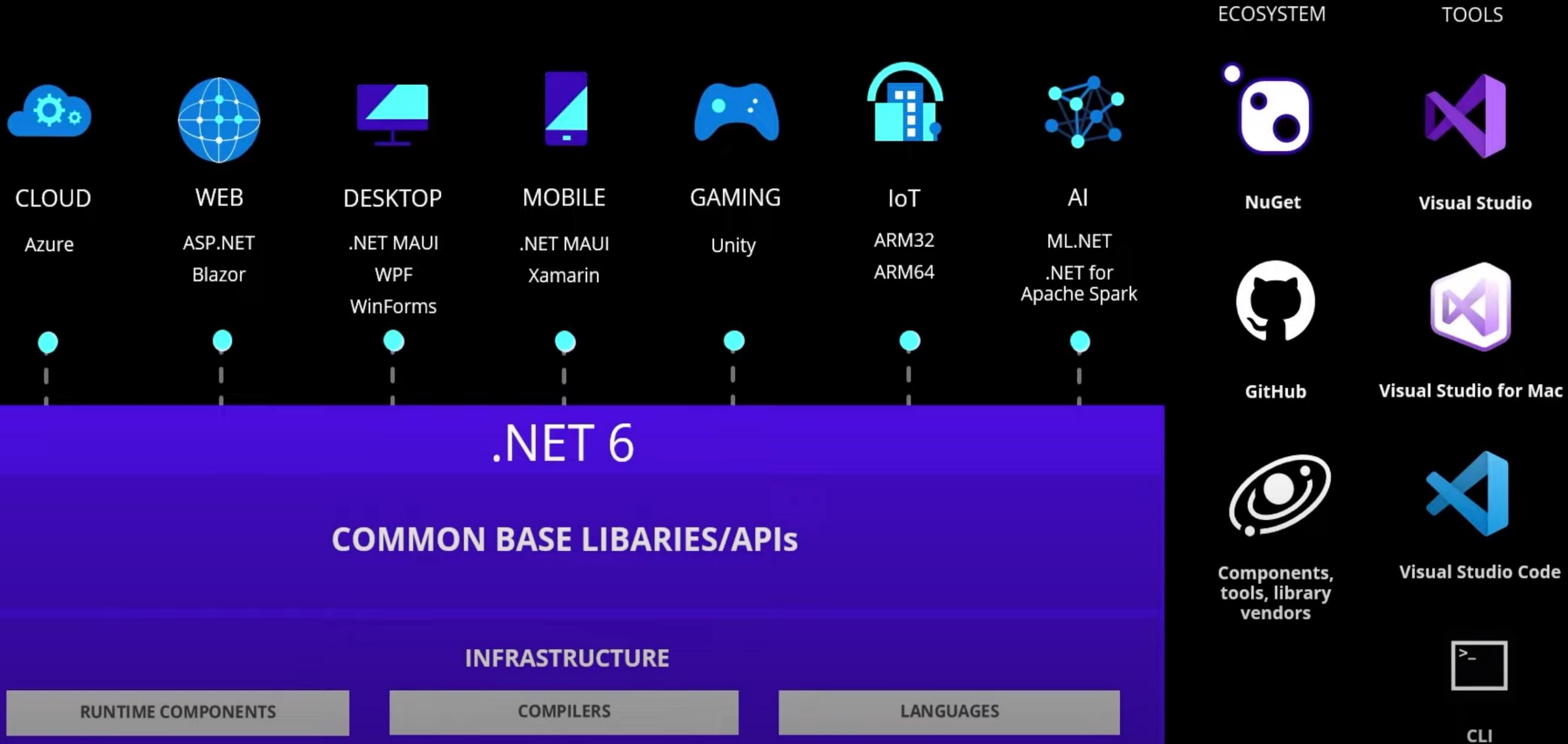
- Originally, .NET 5 was supposed to be “One .NET”...
 - ...but Covid (and probably a few other things) made that impossible
- In a way, many of the things I will say for .NET 6 today, you may have heard in similar fashion for .NET 5
- .NET 6 brings us full circle and provides the full vision for “One .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



Top 5

Language on GitHub

C#



7X

Faster than Node.js

ASP.NET Core

40%

New to .NET are students

dot.net download survey

Sources: insights.stackoverflow.com/survey/2019#most-loved-dreaded-and-wanted & insights.stackoverflow.com/survey/2020#most-loved-dreaded-and-wanted github.com/cncf/velocity/ octoverse.github.com/ www.techempower.com/benchmarks/#section=data-r18&hw=ph&test=plaintext

.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

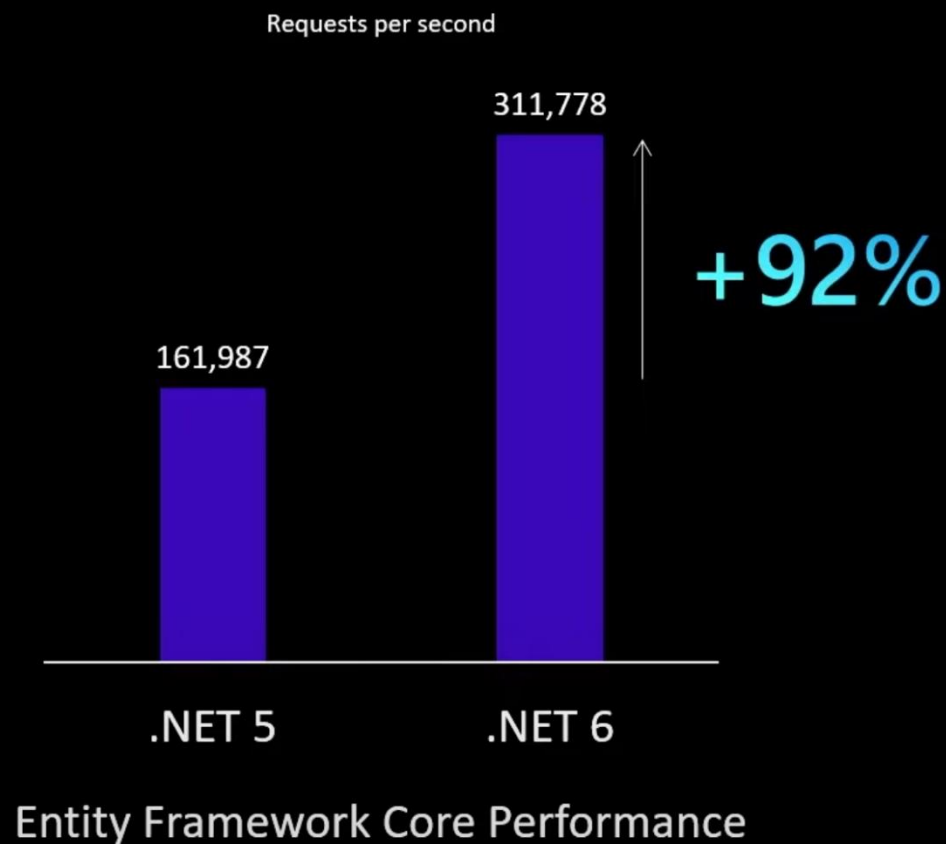
ARM64

- .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

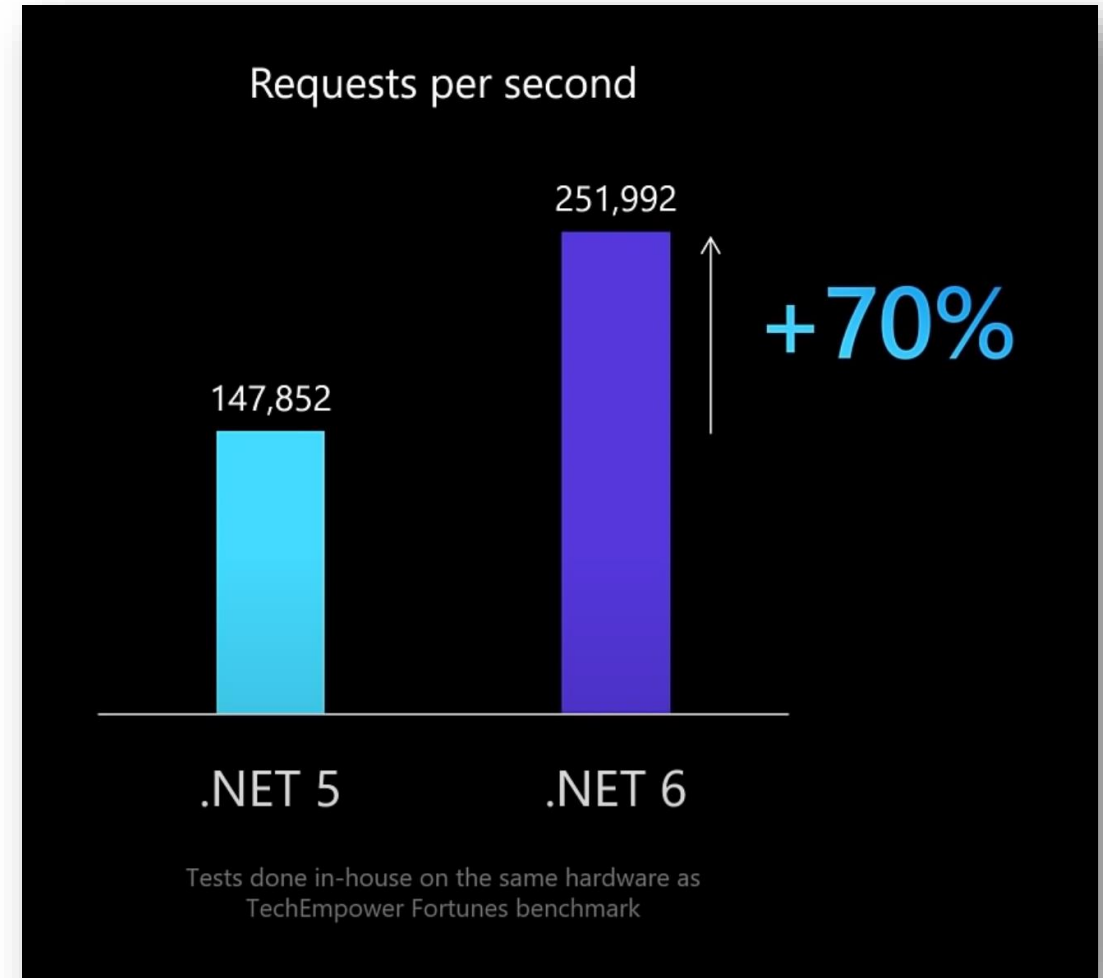


> 10X faster than Node.js
ASP.NET Core web framework



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!

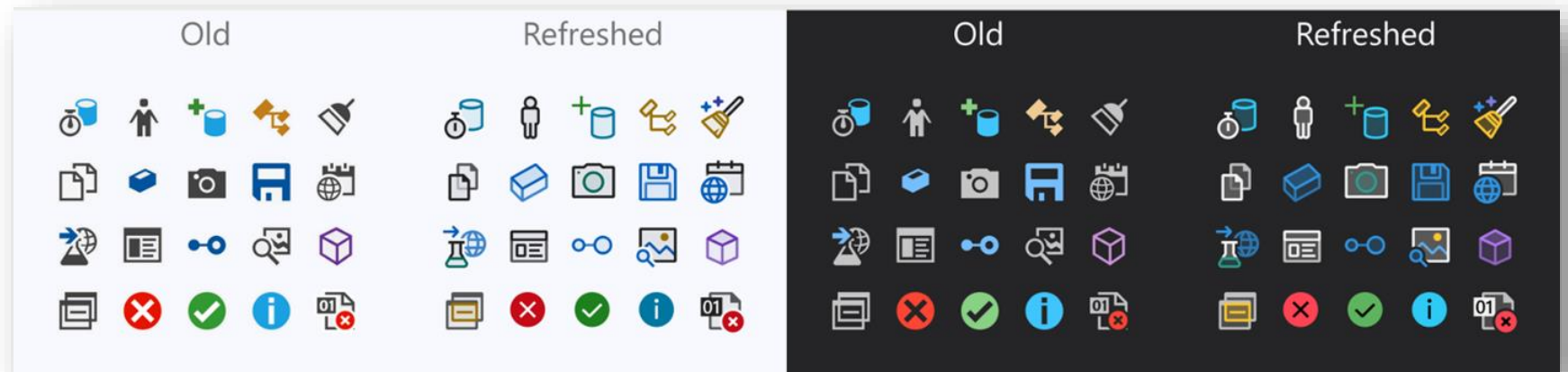
.NET Upgrade Assistant

- <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



29:28

What's new in C# 10

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

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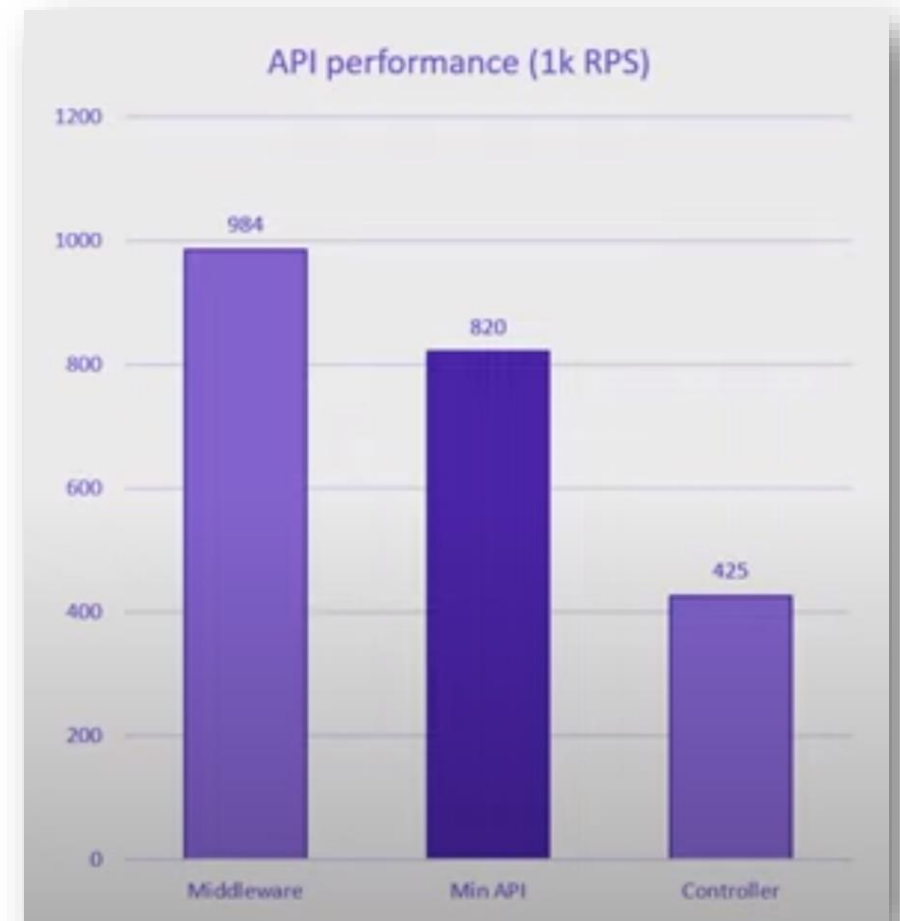
.NET 6 - ASP.NET

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();
```


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



HOSTED BY
Daniel Roth

29:55

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


dotNET • 8.8K views • 5 days ago

<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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.NET Conf 2021

Minimal APIs in .NET 6



HOSTED BY
Stephen Halter
Safia Abdalla

30:34

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
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Minimal APIs

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

Author, Teacher, and Filmmaker



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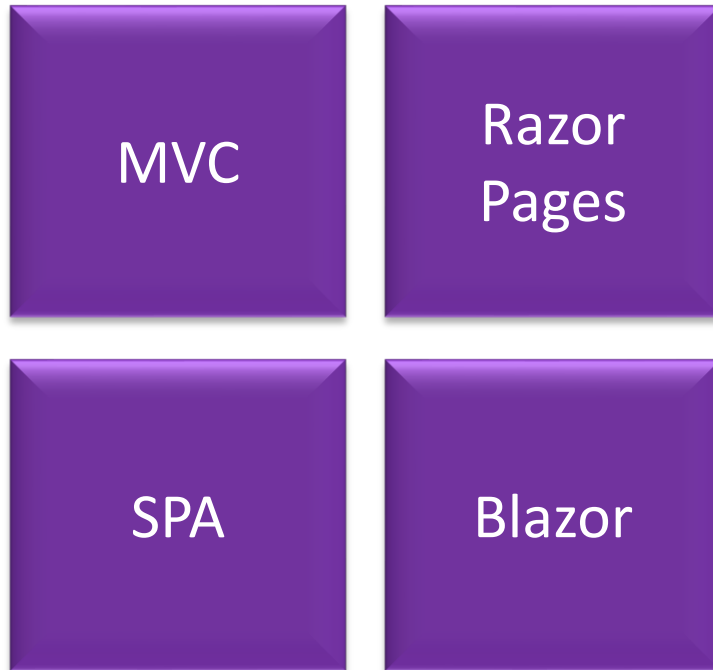
Wednesday Dec 8, 2021 @ 1:00pm Eastern (UTC-5) / 10:00am Pacific

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

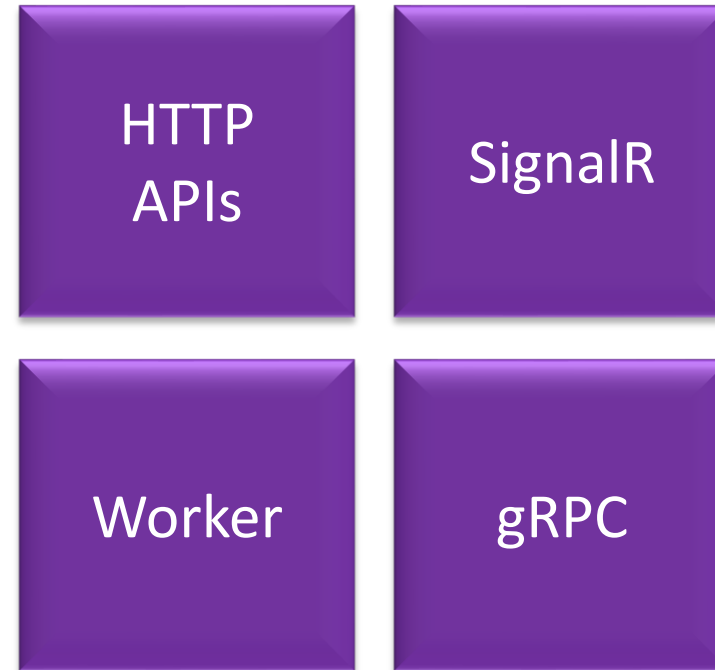
Blazor Web Development

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

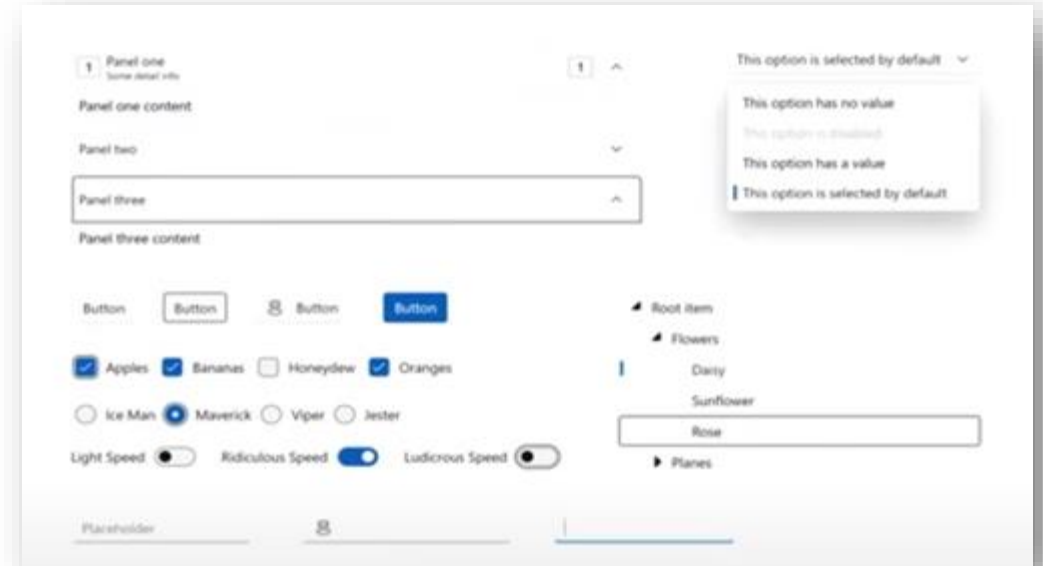
- Performance improvements
- Smaller download size
- Ahead-Of-Time (AOT) Compilation for better performance
- Code simplifications
- More integration with various other environments
- Hot reload
- Native dependencies
- ...

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



.NET Conf 2021

Enterprise-grade Blazor apps with .NET 6

HOSTED BY Daniel Roth


30:34

Enterprise-grade Blazor apps with .NET 6

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<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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.NET Conf 2021

New Blazor WebAssembly capabilities in .NET 6

HOSTED BY Steve Sanderson


29:11

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

HOSTED BY Daniel Roth, Javier Calvarro Nelson

31:03

Next-generation Blazor components with .NET 6

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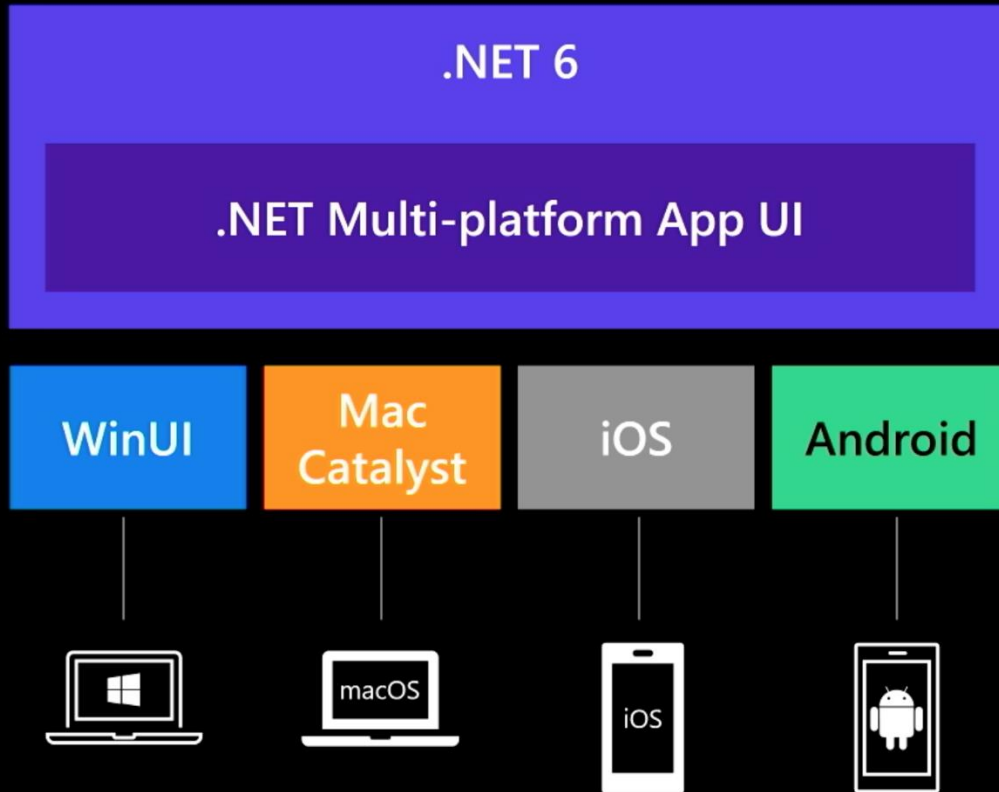
<https://aka.ms/dotNETConf2021-GetdotNET6> Blazor in .NET 6 enables building even more powerful and flexible web UI components. In this...

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

MAUI + Blazor Together

Blazor Hybrid

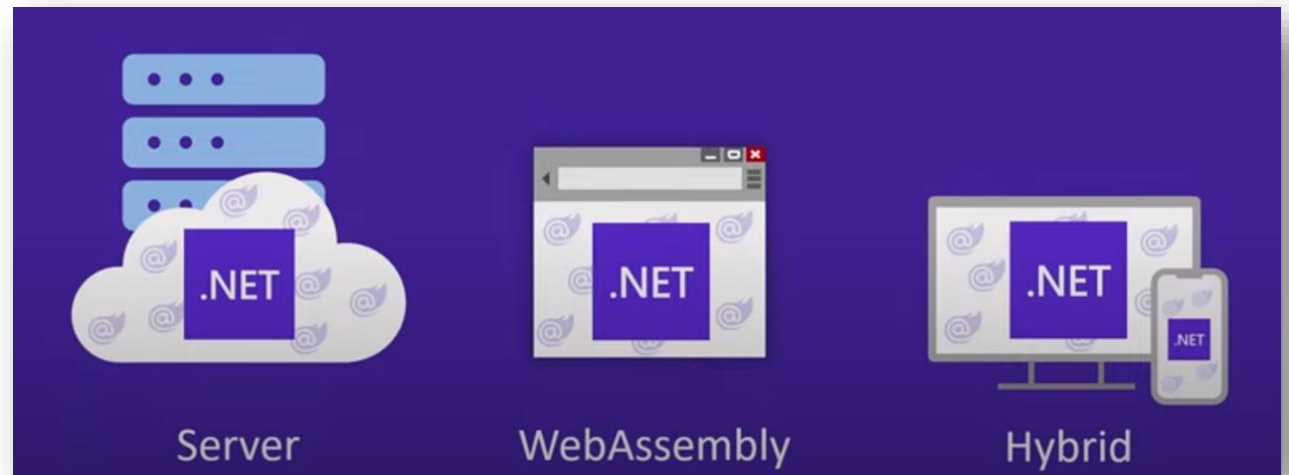
- Blazor Hybrid is an extension of Blazor
 - 3rd option in addition to Blazor Server and Blazor Web Assembly
 - Builds on top of .NET 6 and .NET MAUI
- Enables cross-platform development with native device access using Blazor
- It runs on Windows, macOS, iOS, and Android
 - Covers 95%+ of the market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



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



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

dotNET • 7.8K views • 5 days ago

<https://aka.ms/dotNETConf2021-GetdotNET6> The power of Blazor is coming to native apps on desktop and mobile devices! Use existing Blazor web components and get the power of native apps, or...



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!
- Name selected from registered attendee list. Completed survey is required to win.

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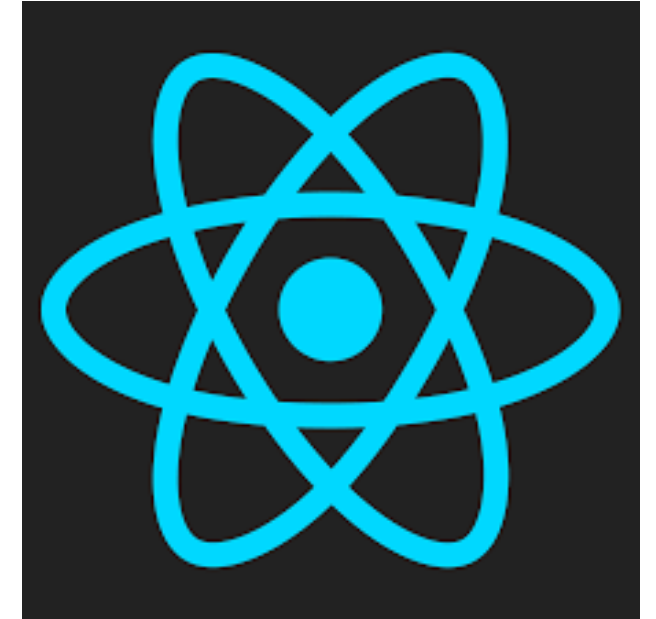
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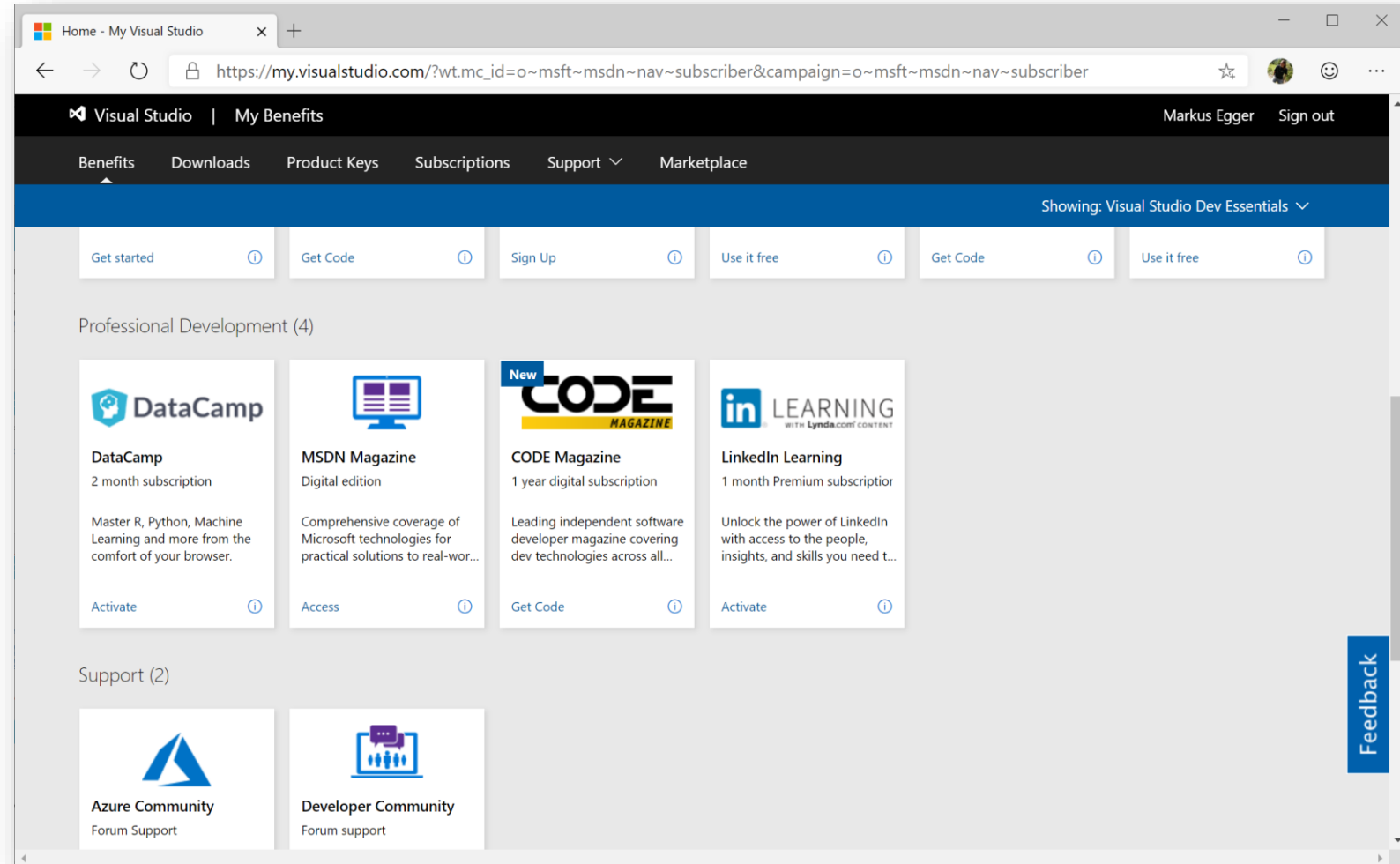
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