

- Co nás čeká v
.NET Core 3.0

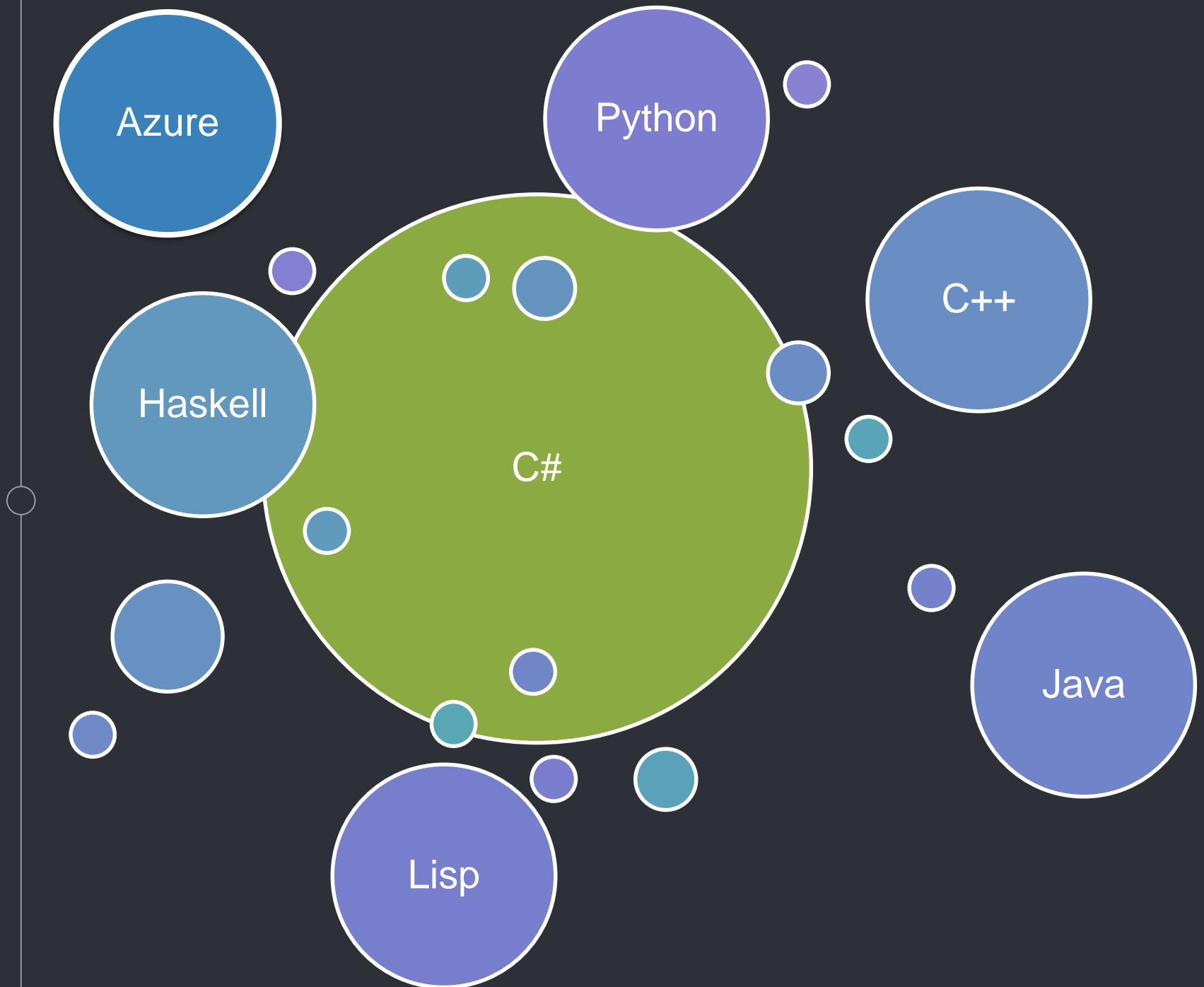
Jan Skála – Dotnet talks 17.1.2019



Kdo jsem

Vývojář, student ČVUT, MSP, příležitostný
autor článků a školitel

 **TheNetw.org**





.Net Standard 2.1

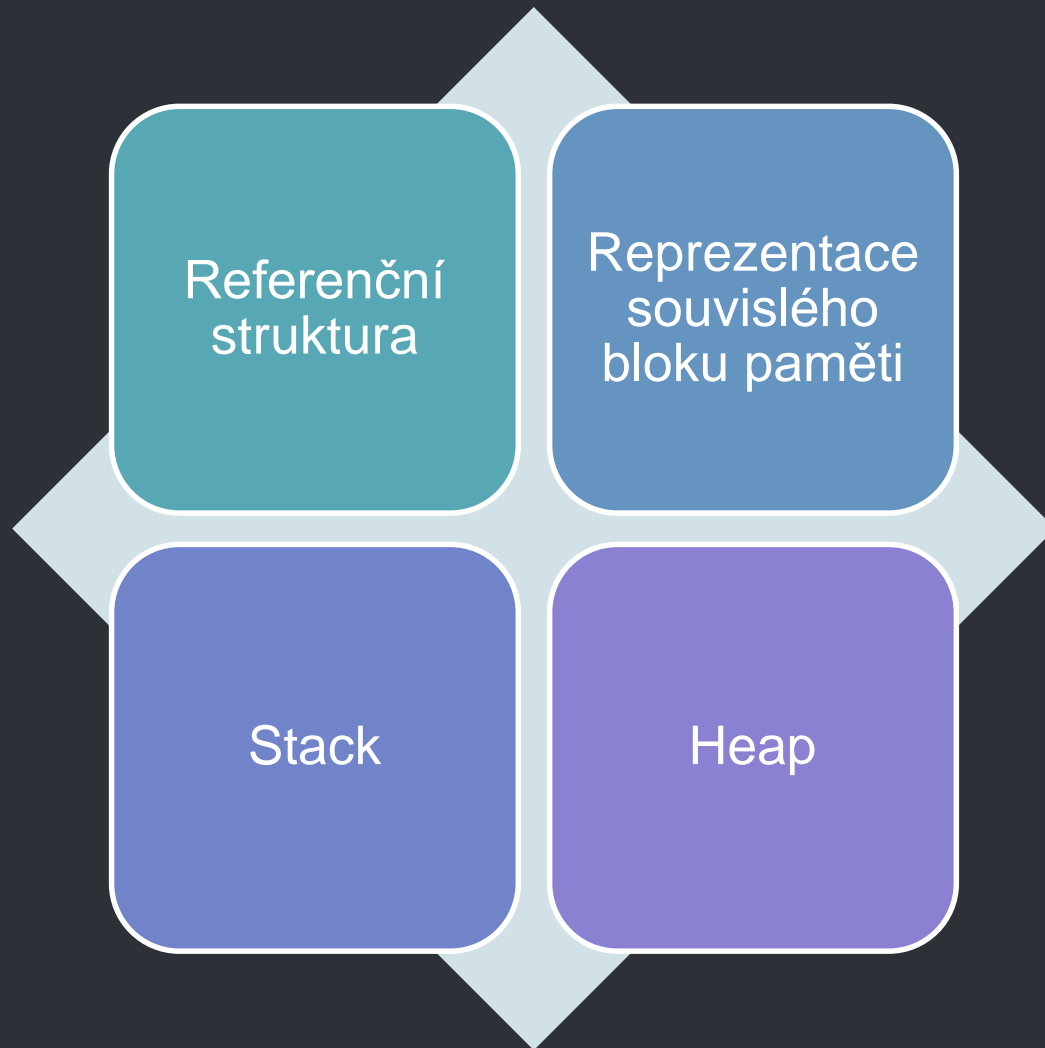
Datové typy, reflexe, SIMD

● .Net Standard 2.1 – (nové) datové typy

- Index
- Span<T>
- IEnumerable<T>
- SequenceReader

```
Index i1 = 3; // number 3 from beginning  
Index i2 = ^4; // number 4 from end
```

- .Net Standard 2.1 – datové typy - span



- .Net Standard 2.1 – datové typy - SequenceReader

Nástroj pro
čtení typu

High
performance

Low
allocating

ReadOnlySequence<T>

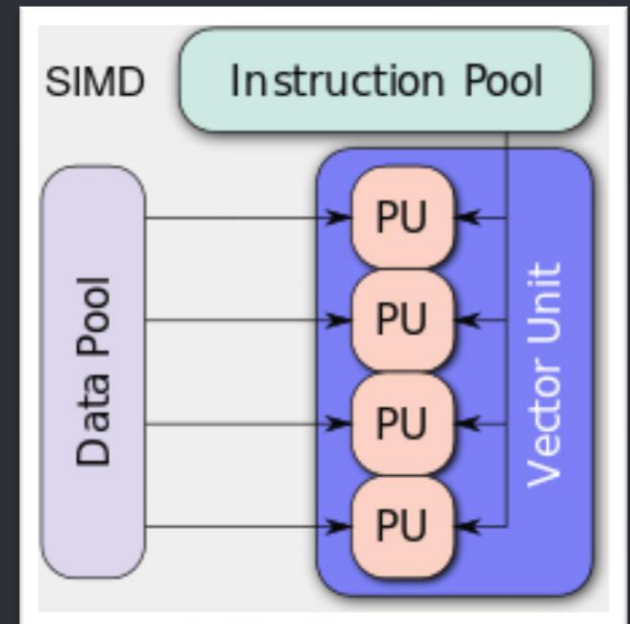
- .Net Standard 2.1 – reflexe

- - MetadataLoadContext
 - Načítání dat o assembly z jiného runtime/architektury

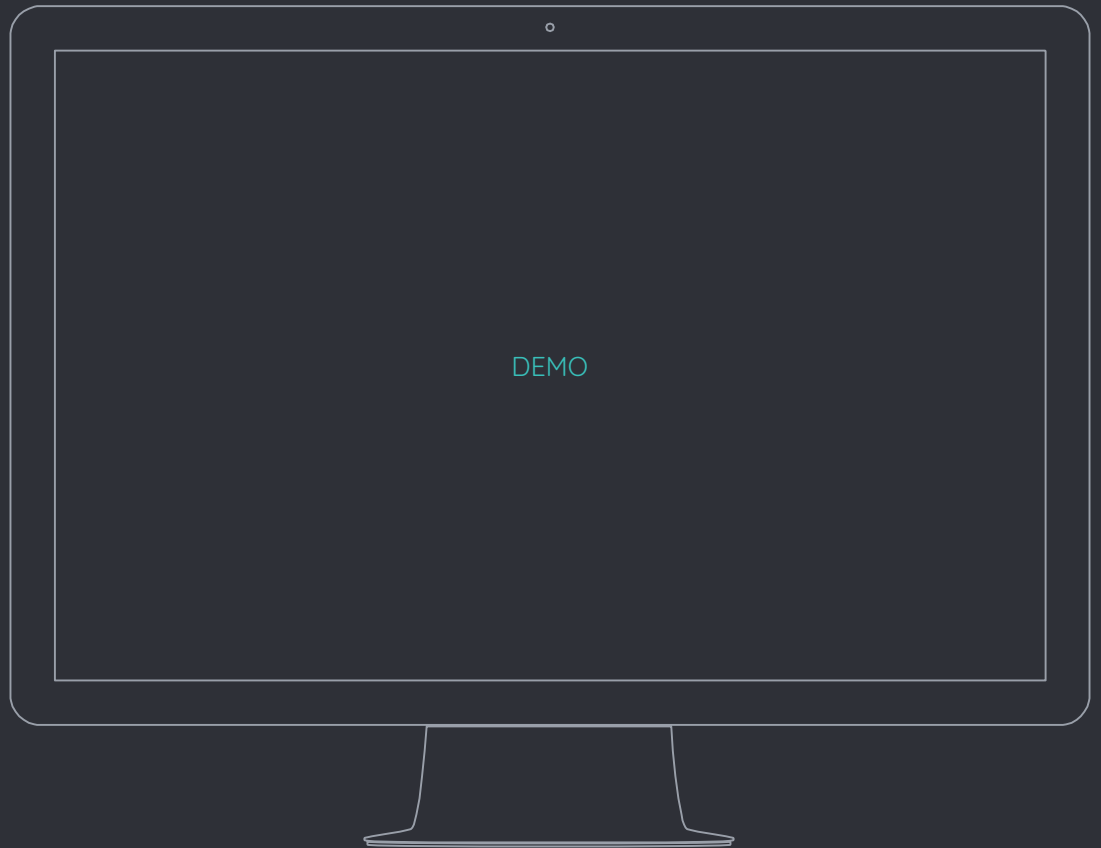
```
var paths = new string[] {@"C:\myapp\mscorlib.dll", @"C:\myapp\myapp.dll"};
var resolver = new PathAssemblyResolver(paths);
using (var lc = new MetadataLoadContext(resolver))
{
    Assembly a = lc.LoadFromAssemblyName("myapp");
    Type myInterface = a.GetType("MyApp.IPluginInterface");
    foreach (Type t in a.GetTypes())
    {
        if (t.IsClass && myInterface.IsAssignableFrom(t))
            Console.WriteLine($"Class {t.FullName} implements IPluginInterface");
    }
}
```

● .Net Standard 2.1 – SIMD

- Single Instruction Multiple Data
- Vektorové instrukce
- Low level optimalizace
- Součást runtime



Net Standard
2.1





ASP .Net Core 3.0

Blaze it!

- ASP .Net Core 3.0

Nuget Package

- Newtonsoft's json.NET
- Entity Framework Core

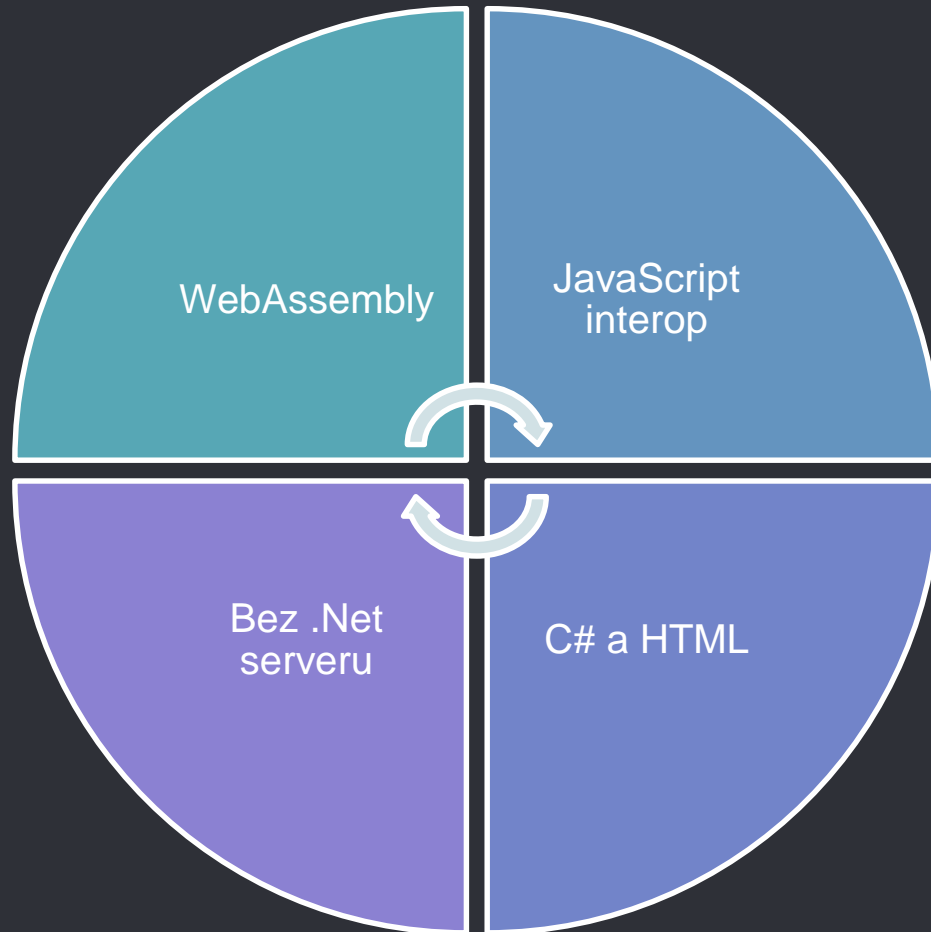
Runtime

- .NET CORE

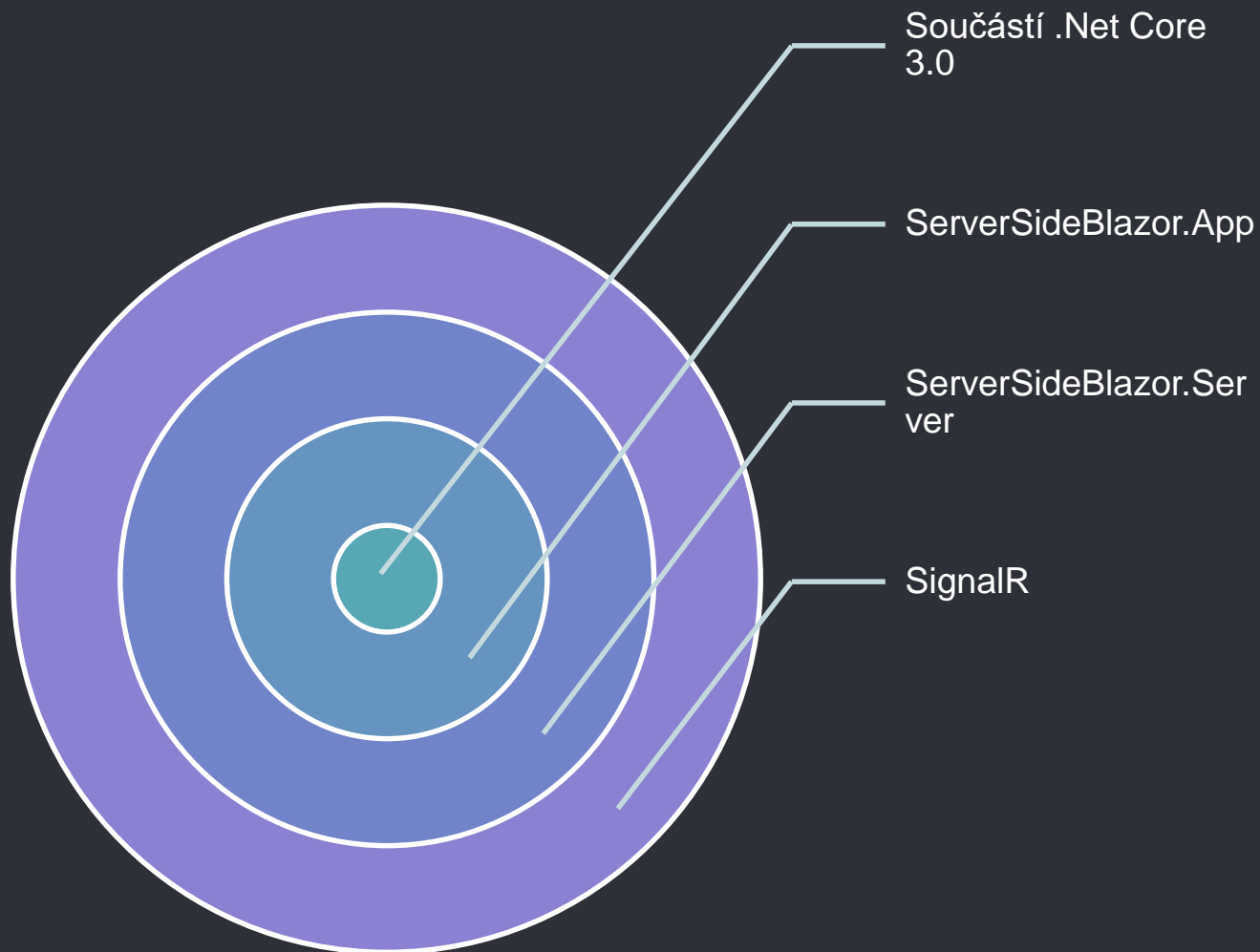
Nekompatibilní

- .Net Framework

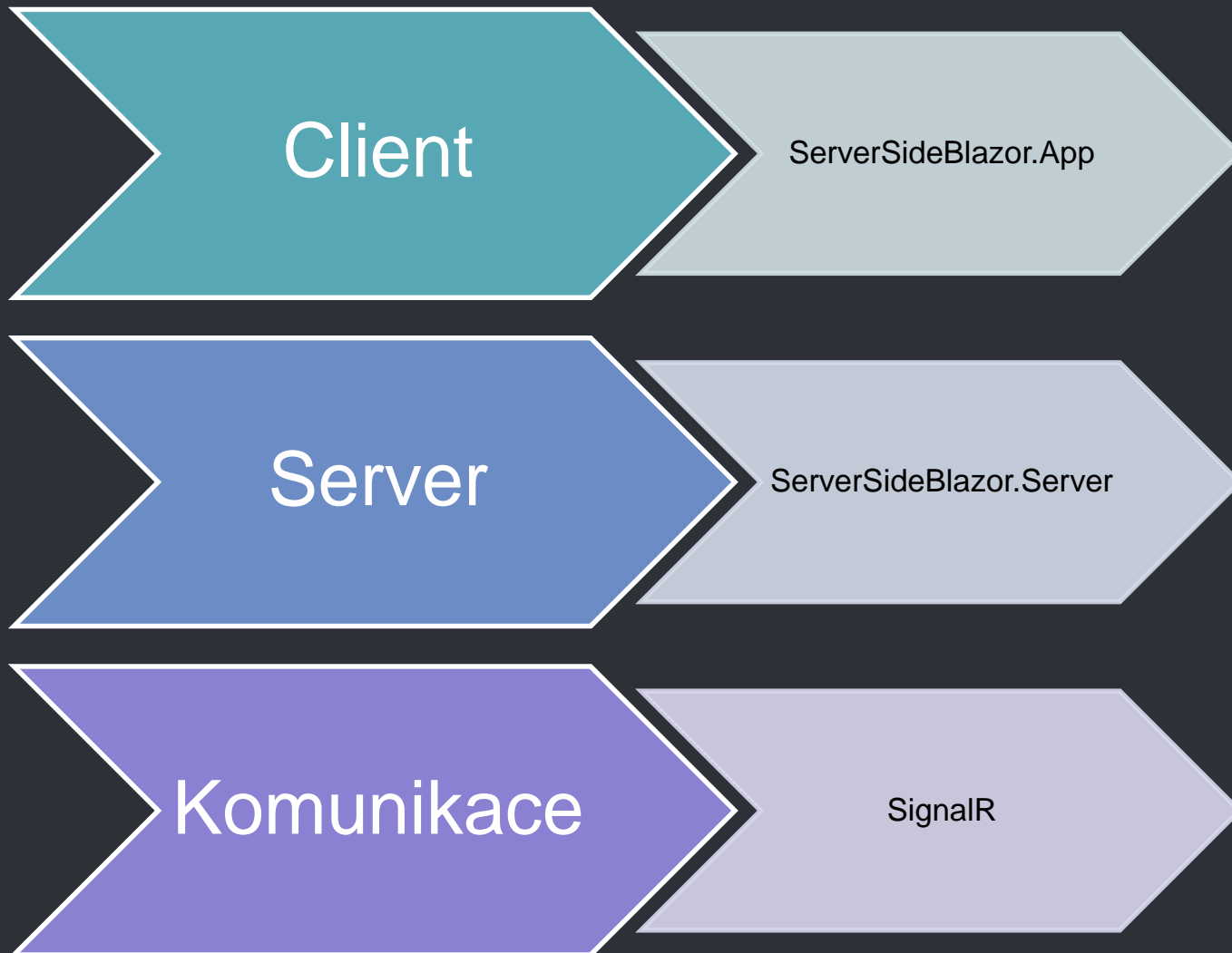
- ASP .Net Core 3.0 - Blazor



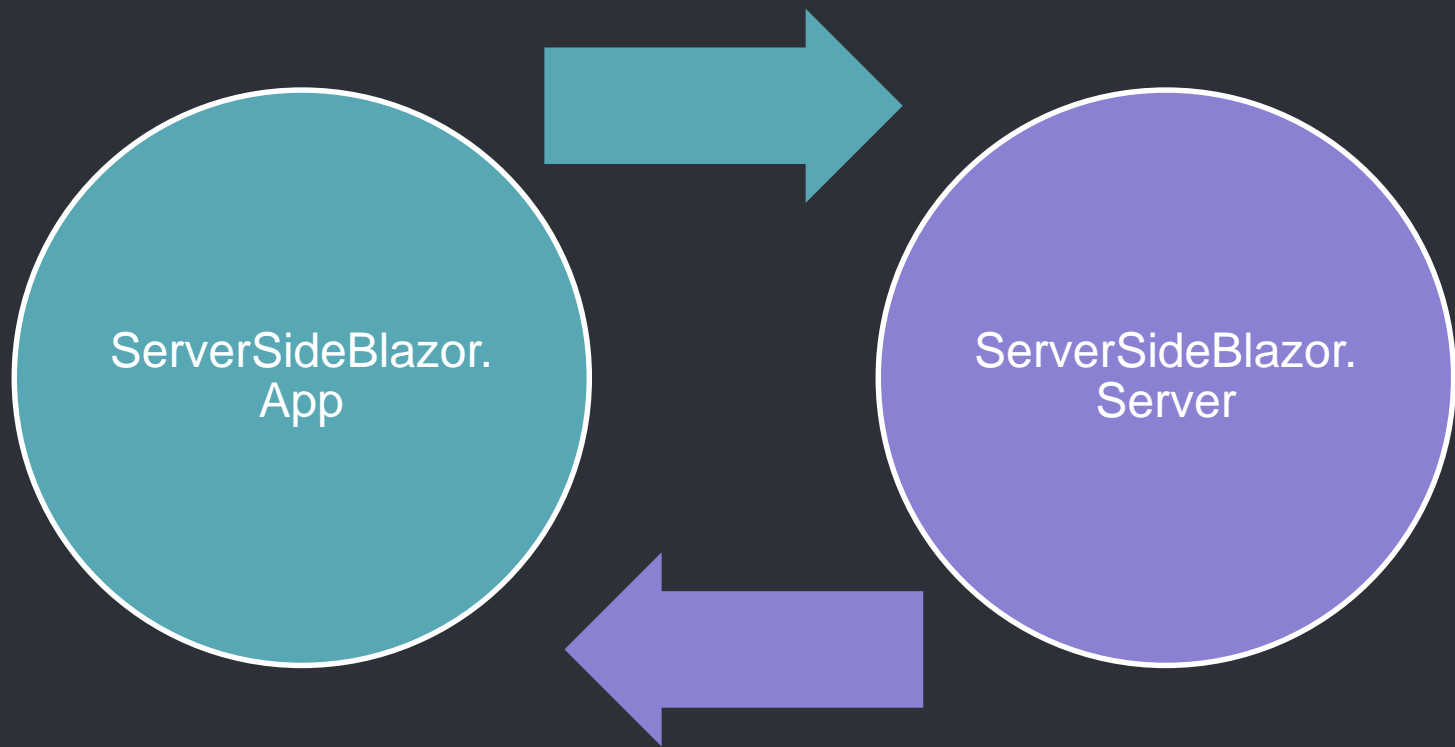
● ASP .Net Core 3.0 Server-Side Blazor



- ASP .Net Core 3.0 Server-Side Blazor



- ASP .Net Core 3.0 Server-Side Blazor



- ASP .Net Core 3.0 - Server-Side Blazor

Server
side blazor

`blazor.server.js`

Blazor
apps

`blazor.webassembly.js`

ASP .Net Core
3.0

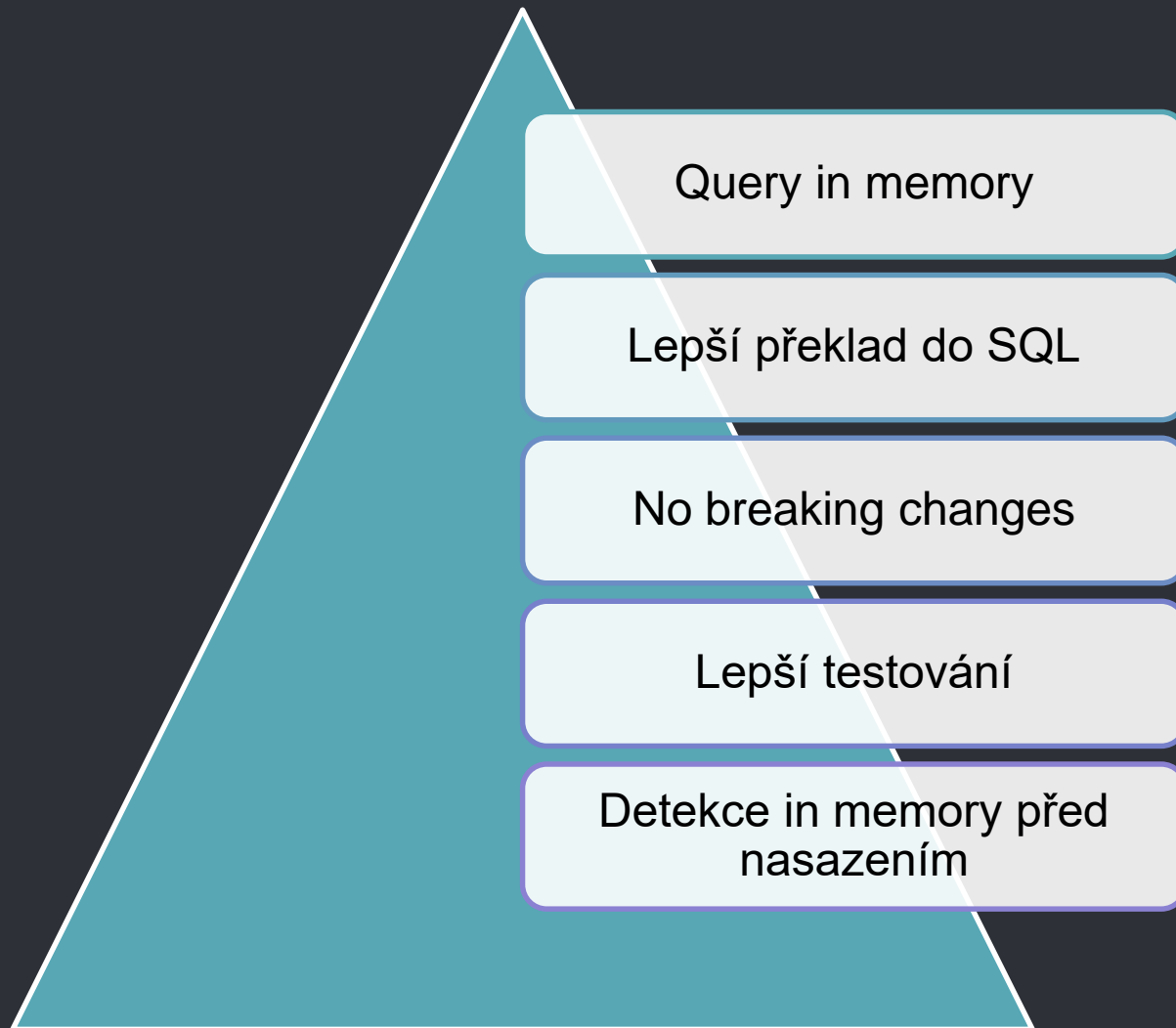




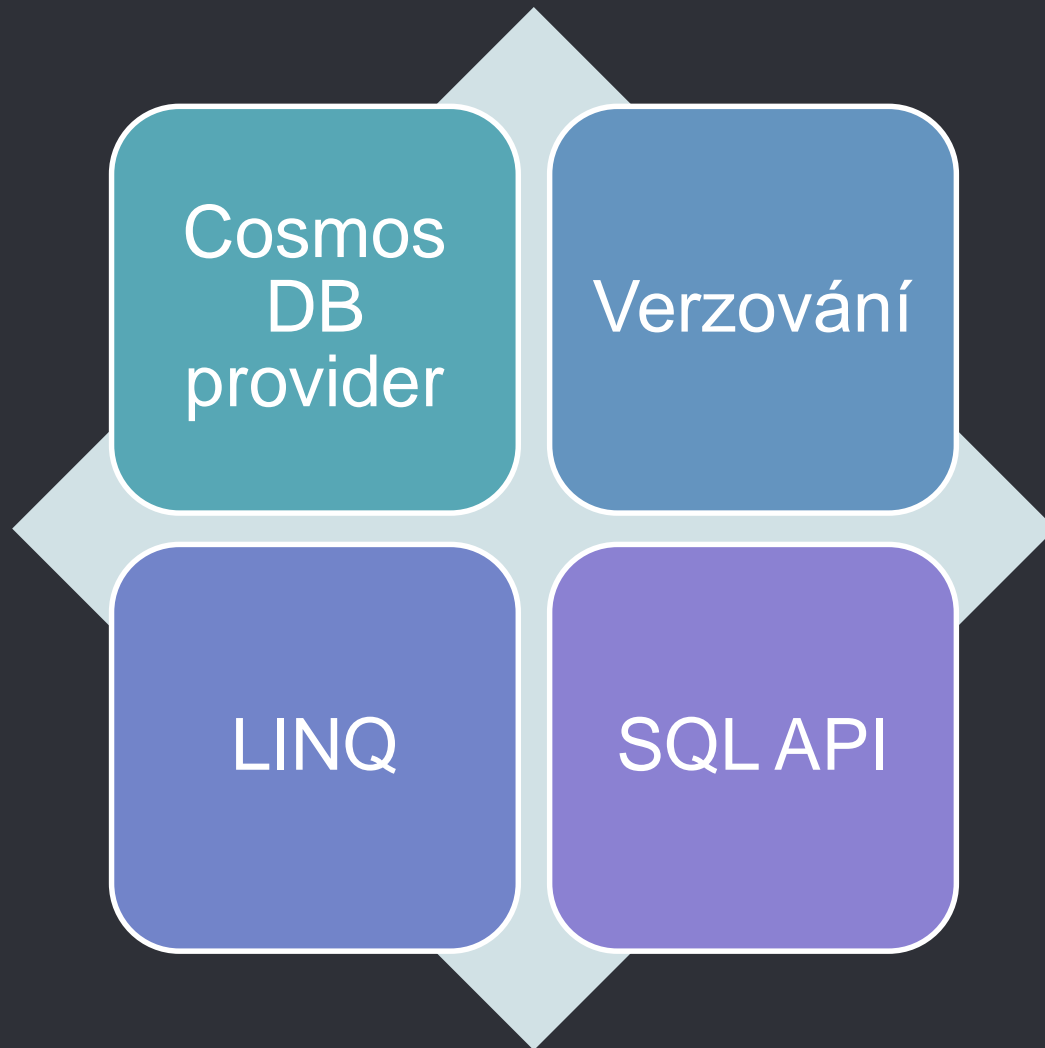
Entity Framework Core 3.0

LINQ, Cosmos, C#8, EF 6.3

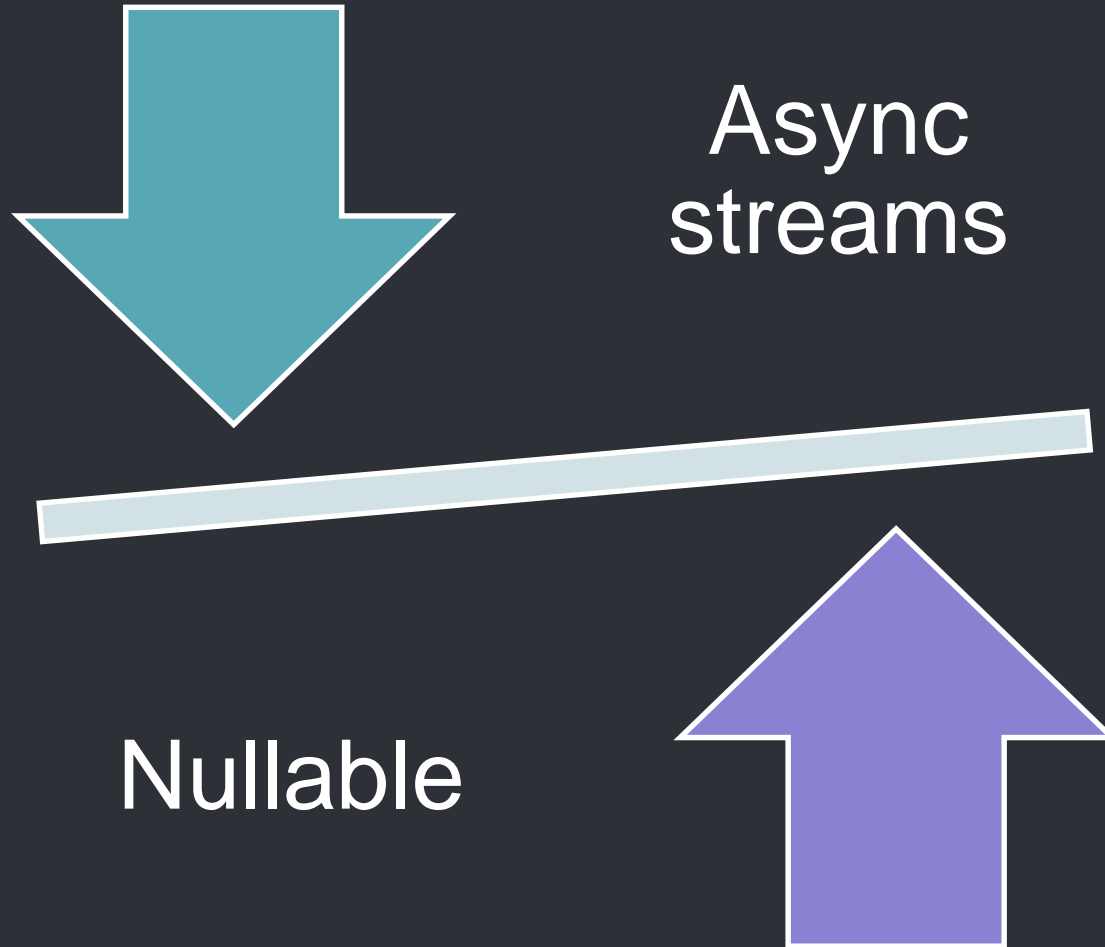
● Entity Framework Core 3.0 - LINQ



- Entity Framework Core 3.0 – Cosmos DB support



- Entity Framework Core 3.0 – C#8



- Entity Framework Core 3.0 – EF 6.3 a .Net Core

- - Neplánují se nové features pro EF 6
 - Snadnější port aplikace
 - Limitace
 - Změna providerů
 - SQL Server

Entity
Framework
Core 3.0





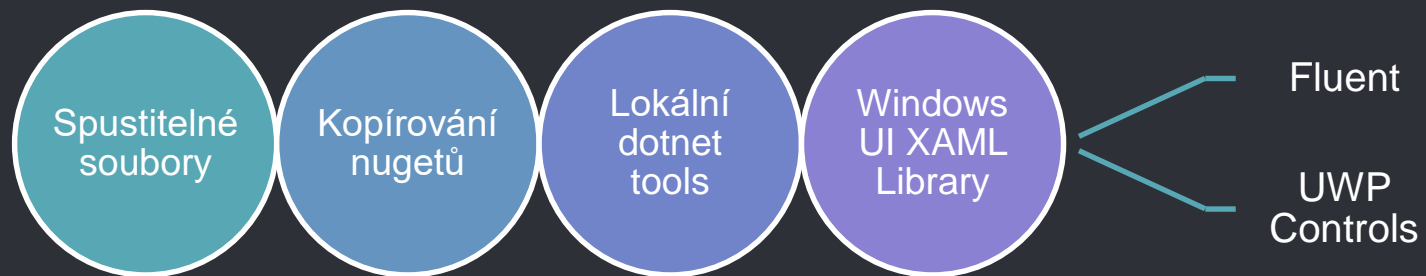
Windows Desktop

Windows Forms, WPF

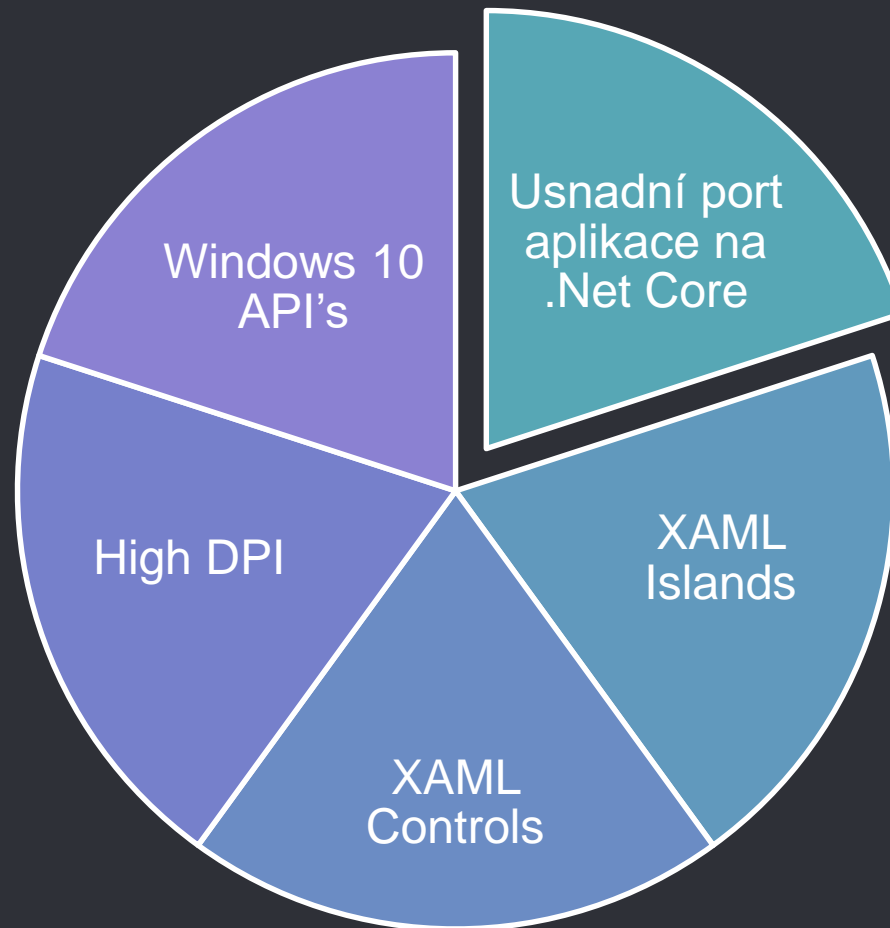
“

To že běží WPF a WinForm nad .Net Core 3.0 neznamená že jsou multiplatformní.

Windows Desktop



- Windows Desktop – dotnet new winforms



● Windows Desktop – dotnet new wpf

- - Stále jen na Windows
 - I data binding řeší .net core
 - Použití UWP kontrollek

Windows
Desktop

