

A decorative background consisting of a grid of small dots. The dots are colored in a gradient from orange on the left to purple on the right.

# Dive into Blazor

Building Production-Ready Applications

**by Kristian Mariyanov**

# About Me





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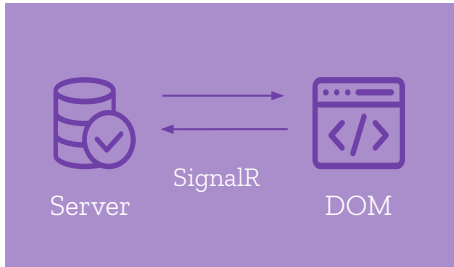
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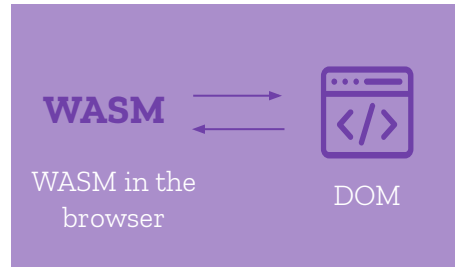
# Why Blazor





### Blazor Server

ASP.NET Core Server  
Razor Components  
.NET

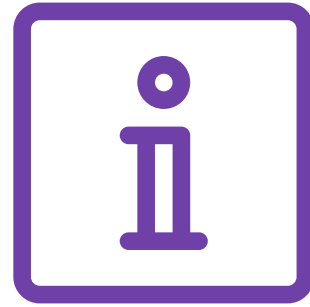


### Blazor WASM

WebAssembly  
Razor Components  
Mono .NET Runtime

## Blazor Hosting Models

# Blazor WASM Overview





### One Language

It utilizes C#. If you are already .NET dev you don't need to learn JS



### It's Fast

Web Assembly is faster than JavaScript..



### Package Support

There is already substantial amount of packages which is supported in NuGet

## Blazor Features



Demo



# Blazor WASM Demo

in the browser



# Authentication



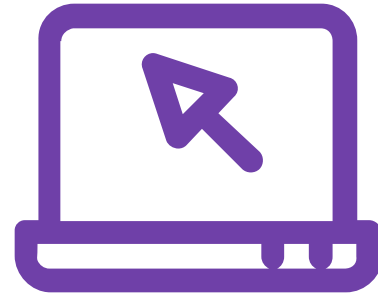
- ◀ OAuth2 and OIDC
- ◀ Token-based Authentication
- ◀ Support for third-party Identity Providers (ID)
- ◀ Integration with Identity Server

## Authentication in Blazor WASM

Demo

# Hosted Blazor WASM Authentication

# Debugging



- ◀ Using Program Database File (.pdb)
- ◀ Works in Chrome and Edge
- ◀ Debug Server, Client and JS
- ◀ Limitations
  - ◀ Inspect arrays
  - ◀ Step debug into or out of managed code
  - ◀ Break on unhandled exceptions
  - ◀ Hit breakpoints during app startup

Demo

# Debugging

# Performance and Optimizations



- ◀ Strip DLLs
- ◀ Configure Linker

**Load time  
optimizations and  
Linker**



- ◀ Knowing the component life-cycle
- ◀ ShouldRender()
- ◀ In the Future: AoT Compilation

**Code  
optimizations**

# Testing



- ◀ Testing Services
- ◀ End-2-End Testing

## Unit and Integration Testing

Demo

# Write unit tests

# Thanks

Does anyone have any questions?

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- ◀ [Telerik UI for Blazor](#)
- ◀ [Authentication and Authorization](#)
- ◀ [Testing Lib](#)
- ◀ [Blazor Repl](#)

## Resources

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