

The slide features a dark blue background with a glowing purple circuit-like pattern on the right side. At the top left, the 'Visual Studio LIVE!' logo is displayed with the tagline 'EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS'. To its right, 'Las Vegas' is written in a teal font. The main title 'Blazor: Zero to Success' is in large white font. Below it, the speaker's name 'Rockford Lhotka' is in teal, followed by his title 'VP of Strategy' and company 'Xpirit' in white. The level 'Level: Introduction/Intermediate' is also in teal. The hashtag '#VSLIVE' is in the bottom left, and the slogan 'Your Code Powers the World. Our Training Powers You.' is in the bottom right.

Visual Studio LIVE! | Las Vegas

EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

# Blazor: Zero to Success

Rockford Lhotka  
VP of Strategy  
Xpirit

Level: Introduction/Intermediate

#VSLIVE

Your Code Powers the World.  
Our Training Powers You.

## Agenda

### Part 1

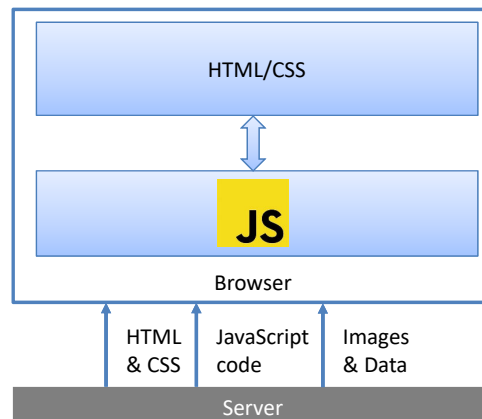
- Intro to Blazor
- Server-side and WebAssembly
- Blazor Hybrid Apps
- Binding to data and events
- Razor Components

### Part 2

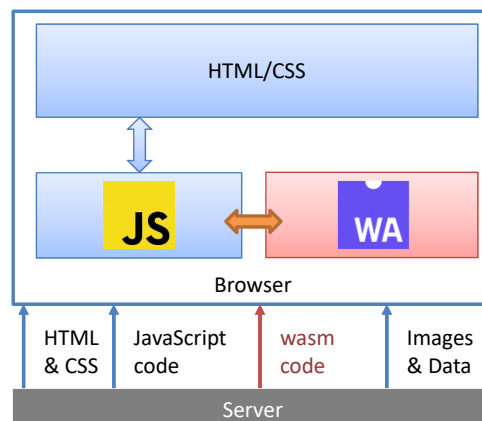
- Global state
- App server interaction
- Authentication
- Authorization



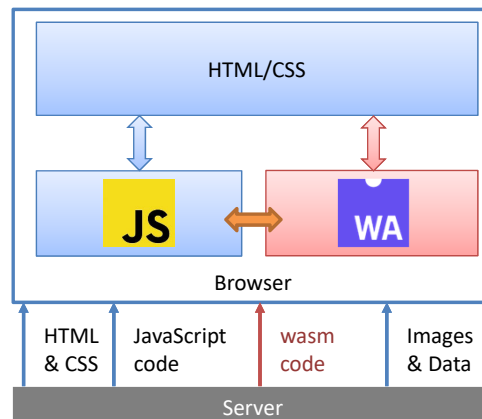
## Browsers Before WebAssembly



## Modern Browsers with WebAssembly



## Future Browsers with WebAssembly



## What is “wasm code”?

“wasm” is  
WebAssembly

- A common assembly language for browsers

Compilers  
generate assembly

- Such as for x86, x64, or wasm

Compilers to  
wasm exist for

- C, C++, Rust, Go, C#, and more...



## What is Blazor?

### Blazor

Build client web apps with C#

#### A UI framework

- Based on Razor syntax
- Razor parser runs on client or server
- Actual rendered content is HTML/CSS
- UI events handled by your C# code on client or server

<https://blazor.net>



## Compare Blazor to Angular/React

### Blazor

- UI design is HTML/CSS
- Code is C#
- Call services on server
- Execute SPA code on client
- Execute SPA code on server
- Work as PWA
- Host in Browser, Electron, WebWindow



### Angular/React

- UI design is HTML/CSS
- Code is TypeScript/JavaScript
- Call services on server
- Execute SPA code on client
- n/a
- Work as PWA
- Host in Browser, Electron, Capacitor



## Compare Blazor to WPF

### Blazor

- UI design is HTML/CSS
- Code is C#
- Call services on server
- Execute SPA code on client
- Execute SPA code on server
- Use via browser, PWA, or app
- Host in Browser, MAUI, WPF, WinForms

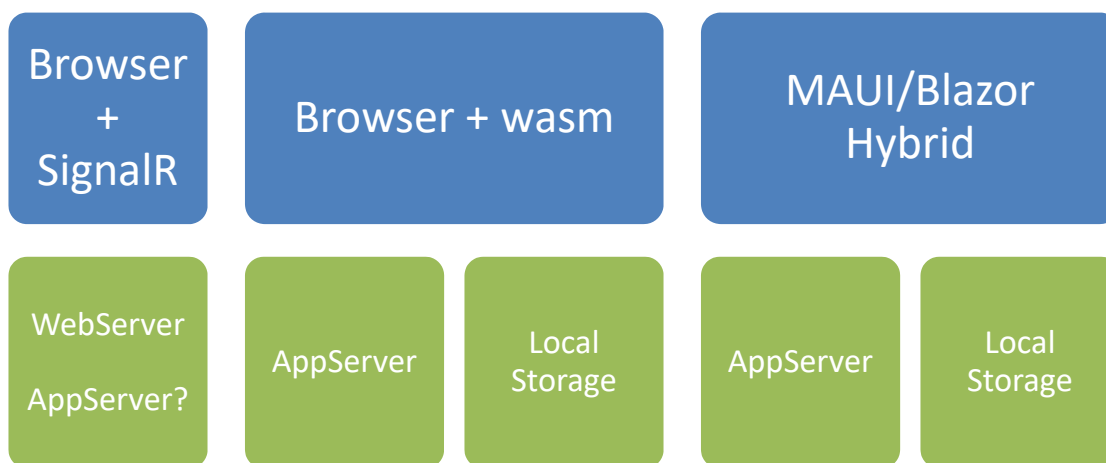


### WPF

- UI design is XAML
- Code is C#
- Call services on server
- Execute code on Windows
- n/a
- Install as app
- Host in Windows only



## Blazor Hosting



Intro to Blazor  
Server-side and WebAssembly  
Blazor Hybrid Apps  
Binding to data and events  
Razor Components

# PART 1 - DEMO



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# PLEASE STAY FOR PART 2

Microsoft  
Regional Director



Global state  
App server interaction  
Authentication  
Authorization

## PART 2 - DEMO



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## THANK YOU

Microsoft  
Regional Director

