

Robert Haken

**Blazor novinky v .NET 8/9**

**Blazor performance**



# Blazor v .NET 8

- Full-stack web UI
  - Static server rendering (Static SSR)
  - Interactive server rendering (Blazor Server)
  - Interactive client rendering (Blazor WebAssembly)
  - Automatic interactive client rendering (Blazor Server first + WASM next time)
  - (+ prerendering)
- New *Blazor Web App* template
- Form handling and model binding
- Enhanced navigation and form handling
- Streaming rendering



# Blazor v .NET 8

- Access `HttpContext` as a cascading parameter (static server component)
- Render Razor components outside of ASP.NET Core

```
await using var htmlRenderer = new HtmlRenderer(serviceProvider, loggerFactory);
string html = await htmlRenderer.Dispatcher.InvokeAsync(async () =>
{
    var dictionary = new Dictionary<string, object?>
    {
        { "Message", "Hello from the Render Message component!" }
    };

    var parameters = ParameterView.FromDictionary(dictionary);
    var output = await htmlRenderer.RenderComponentAsync<RenderMessage>(parameters);

    return output.ToHtmlString();
});
```

- Sections support - `<SectionOutlet>`, `<SectionContent>`
- Error page support

# Blazor v .NET 8

- QuickGrid no longer "experimental"
- Route to named elements (URL `#fragments`) - automatic scrolling
- Root-level cascading values
- Virtualize empty content
- Close circuits when there are no remaining interactive server components
  - Monitor SignalR circuit activity
- Faster runtime performance with the Jiterpreter (partial JIT support)
- Web-friendly Webcil packaging
- Blazor WebAssembly debugging improvements 🤔
- Support for dialog cancel and close events
  - `<dialog @onclose="..." @oncancel="..." />`

# Blazor v .NET 8

- Blazor Identity UI
- Blazor Server with Yarp routing



# Blazor v .NET 9

- Costructor injection (DONE `net9-preview2` )
- WebSockets compression (DONE `net9-preview2` )
- Optimize file delivery for web apps
- Add an API to tell you the current render mode
- Add `NavigationManager.GetUriWithHash()`
- Add Microsoft Identity Platform auth option to the Blazor Web App template



# Blazor Performance Tuning

DEMO



# Reference

- <https://github.com/hakenr/BlazorNet8>
- <https://github.com/hakenr/BlazorPerformanceTuningDemos>
- [What's new in .NET 8 | Microsoft Learn](#)
- [What's new with identity in .NET 8 - .NET Blog](#)
- [ASP.NET Core Roadmap for .NET 9 · Issue #51834 · dotnet/aspnetcore](#)

