



DOTVVM
COMMUNITY MEETUP
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What's new in DotVVM 3.0

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BUILD
new web apps

with
MVVM approach

MODERNIZE
Web Forms apps

and migrate them
to .NET Core

What is DotVVM

- 🌿 Open-source web UI framework
- 🌿 Member of the .NET Foundation
- 🌿 Supports ASP.NET Core and “old” ASP.NET
- 🌿 Ships with an extension for Visual Studio



Building new web apps

- Model-View-ViewModel approach
- No need to write JavaScript
- View = .dotHTML file
- ViewModel = C# class
- Ships with built-in components
 - GridView, Repeater, FileUpload...



What's new in DotVVM 3.0



Stability & Reliability

- 🌿 Complete rewrite of the TypeScript part of DotVVM
 - 🌿 We are using `rollup`
- 🌿 Refactoring of the postback pipeline
- 🌿 New events in `dotvvm.events` with more information
- 🌿 Type-safe viewmodels on the client
 - 🌿 Assignments to the viewmodel from JavaScript are validated
- 🌿 Deferred updates
 - 🌿 Better client-side performance



JavaScript Modules

- ✦ Import a JS module file using `@js NameOfModule`
 - ✦ `export function init(context) { ... }`
 - ✦ `export const commands: {
 myCommand(context, args...) { ... }
}`
- ✦ Call JavaScript functions from the DotVVM page
 - ✦ `_js.Invoke("myCommand", arg1, ...)`
- ✦ Expose DotVVM commands to JavaScript
 - ✦ `<dot:NamedCommand Name="myCmd" Command="..." />`
- ✦ Call them from JavaScript
 - ✦ `let result = await context.commands.myCmd(arg1, ...);`



Other improvements

🌿 Lambda expressions in data-bindings

- 🌿 Allows for client-side filtering

🌿 `<dot:GridView`

`DataSource="{value: Items.Where(i => ...)}">`

🌿 Improvements in Validation

- 🌿 You can return validation errors from outside of the `Validation.Target`



DEMO

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How to try

- 🌿 Clone GitHub repo
 - 🌿 You can use it as a submodule
- 🌿 Add project references in the solution
 - 🌿 DotVVM.Core
 - 🌿 DotVVM.Framework
 - 🌿 DotVVM.Hosting.AspNetCore / Owin
- 🌿 We'll have a public preview soon
- 🌿 Release planned for February 2021



Resources

🌿 Homepage
dotvvm.com

🌿 Documentation
dotvvm.com/docs

🌿 GitHub repo
github.com/riganti/dotvvm



Q&A

