



DOTVVM
COMMUNITY MEETUP
FEB 25, 2021

DotVVM 3.0 and beyond

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BUILD
new web apps

with
MVVM approach

MODERNIZE
Web Forms apps

and migrate them
to .NET Core

What's new in DotVVM 3.0



JS Directive

- Allows to interact with DotVVM in JavaScript code

- Use cases

- Client-side changes to the viewmodel
- Calling custom APIs
- Integration with 3rd party components and libraries

- @js [FeatureSamples_Resources_Incrementer](#)



JS Directive

- JavaScript file must **export default function**

- Receives the **context** argument

- `context.namedCommands.MethodName`

- Allows to call DotVVM commands and static commands

- `<dot:NamedCommand Name="MyMethod"`
`Command="{command: ...}" />`

- Should return **object with methods**

- They can be called from DotVVM

- `{staticCommand: _js.Invoke("MethodInModule", args...)}`



DEMO

JS Directive



Typed viewmodels & Immutable state

- State is persisted in a plain JS object
 - Immutable – every change replaces parts of the object
 - `dotvvm.state` – returns the current state snapshot
 - `dotvvm.patchState(...)` – preferred way to update the state
- Knockout observables are just a façade
- Assignments from JS are validated
 - Value can be coerced to the correct type, or you get exception



DEMO

Typed viewmodels



LINQ and lambda expressions

- Lambda expressions in data-bindings

- No type inference yet – you need to specify argument types

- ```
{value: Customers.Where(
 (CustomerData c) => ...)
}
```

- Where, OrderBy, Count, Any, All, Select...



# Other improvements

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- 🌿 Complete rewrite of the TypeScript part of DotVVM
  - 🌿 ES6 modules, **rollup** for bundling, polyfills for IE 11...
- 🌿 Refactoring of the postback pipeline
- 🌿 New events in `dotvvm.events` with more information



# How to try

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- 🍃 DotVVM 3.0 Preview will be published **by the end of the week**

- 🍃 JS Directive sample

- 🍃 <https://github.com/riganti/dotvvm-samples-js-integration>



# What's next

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- Type inference in lambdas

- GridViewDataSet extensibility

- Different types of paging, sorting and filtering
  - Different loading providers (static command, REST API...)

- Easier way to write custom controls



# Resources

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🍃 Homepage  
[dotvvm.com](https://dotvvm.com)

🍃 Documentation  
[dotvvm.com/docs](https://dotvvm.com/docs)

🍃 GitHub repo  
[github.com/riganti/dotvvm](https://github.com/riganti/dotvvm)



# Q&A

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