Sitecore MVC Advanced

Kevin Brechbühl



Unic AG



@aquasonic



About

- Sitecore Technology MVP 2015
- Co-founder of wsugch

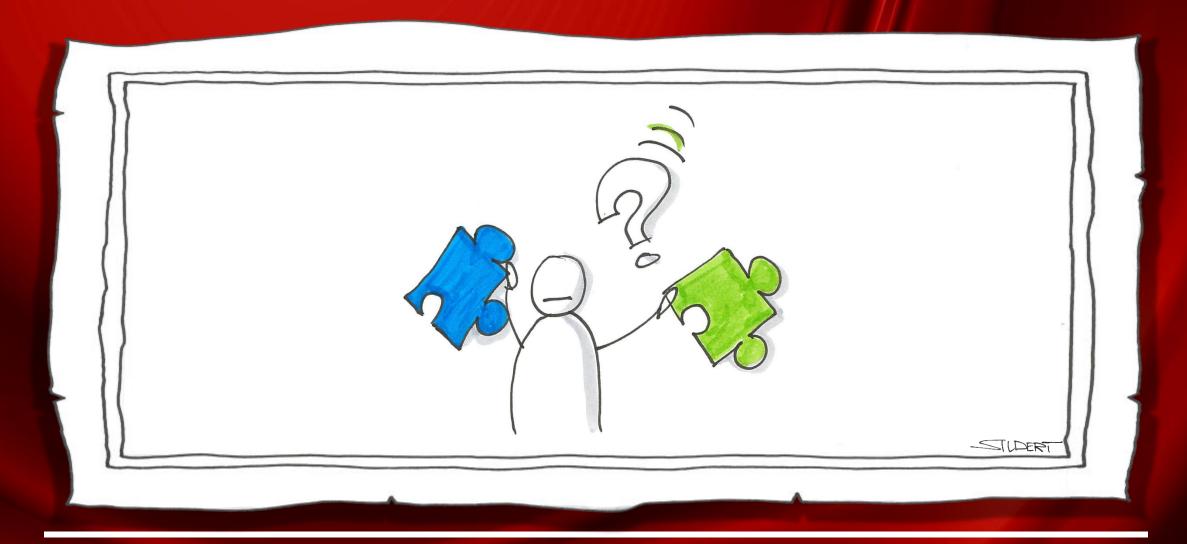




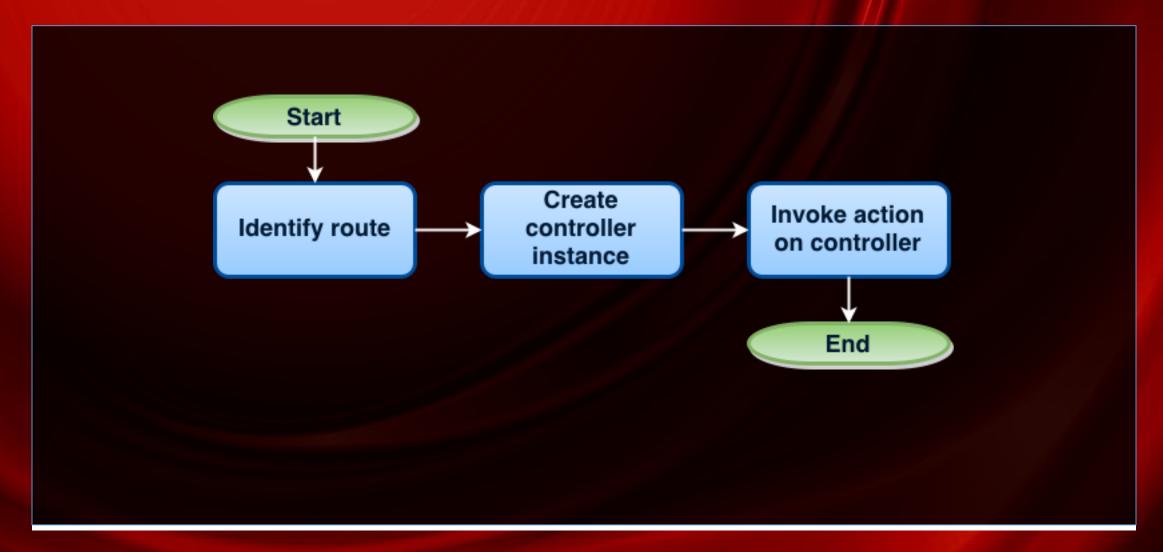
Agenda

- ASP.net MVC vs. Sitecore MVC
- Multiple Forms
- MVC Forms Localization
- MVC Areas
- There is always more...

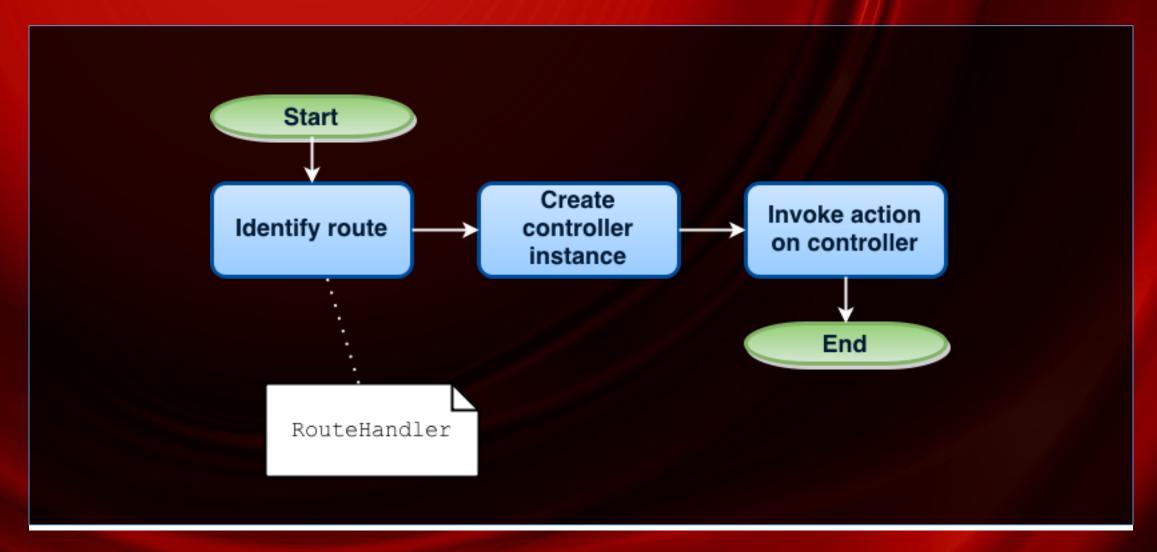
ASP.net MVC vs. Sitecore MVC

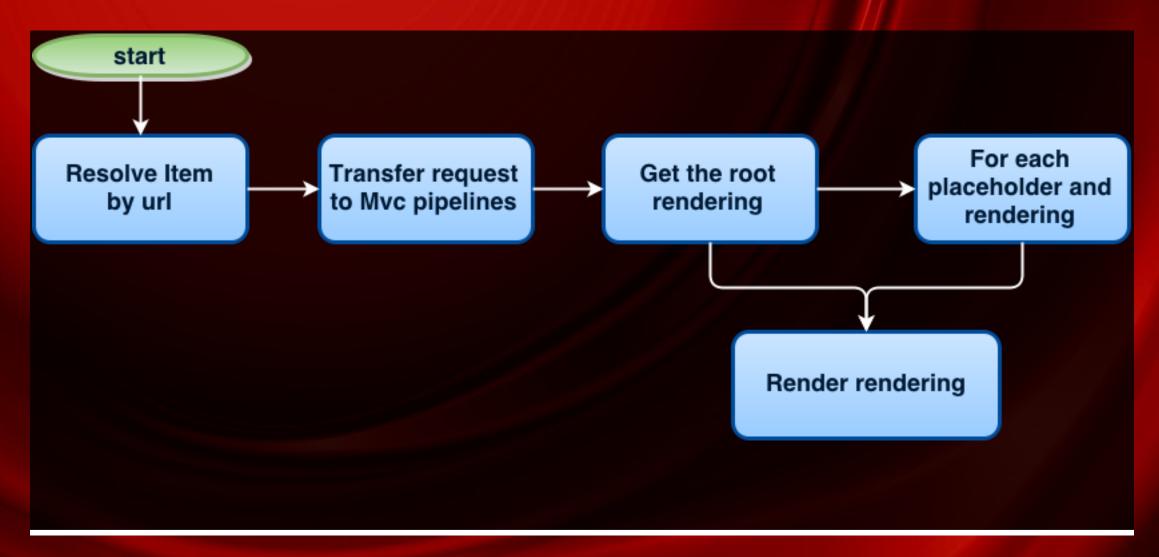


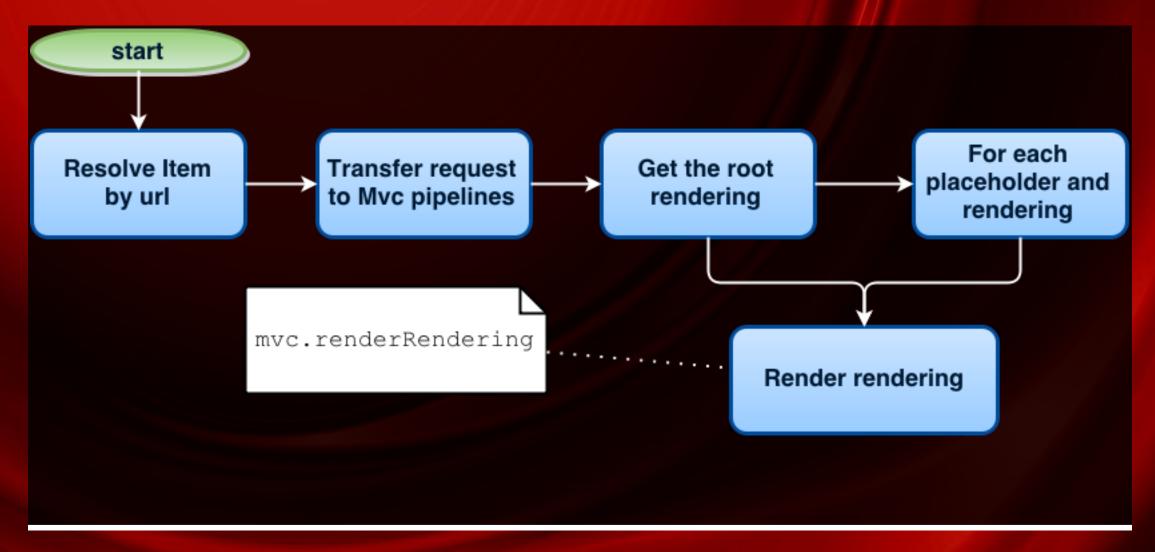
Traditional ASP.net MVC

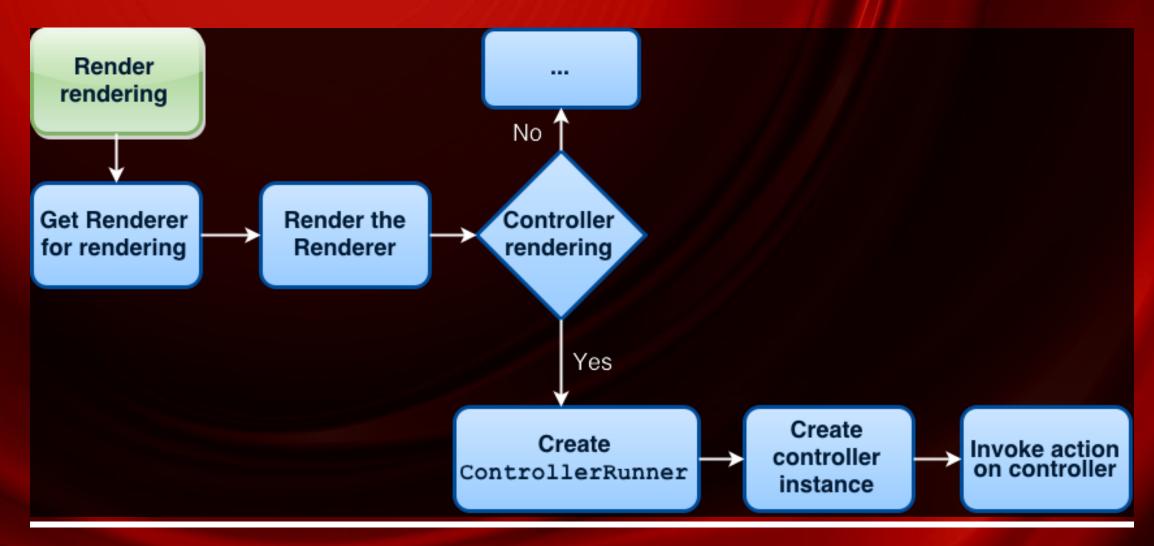


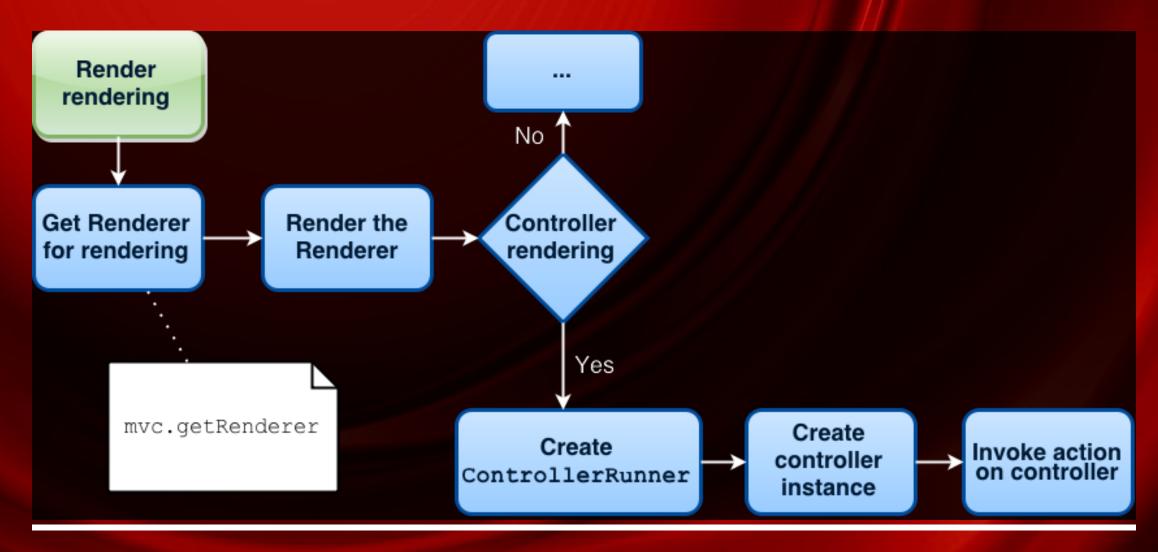
Traditional ASP.net MVC

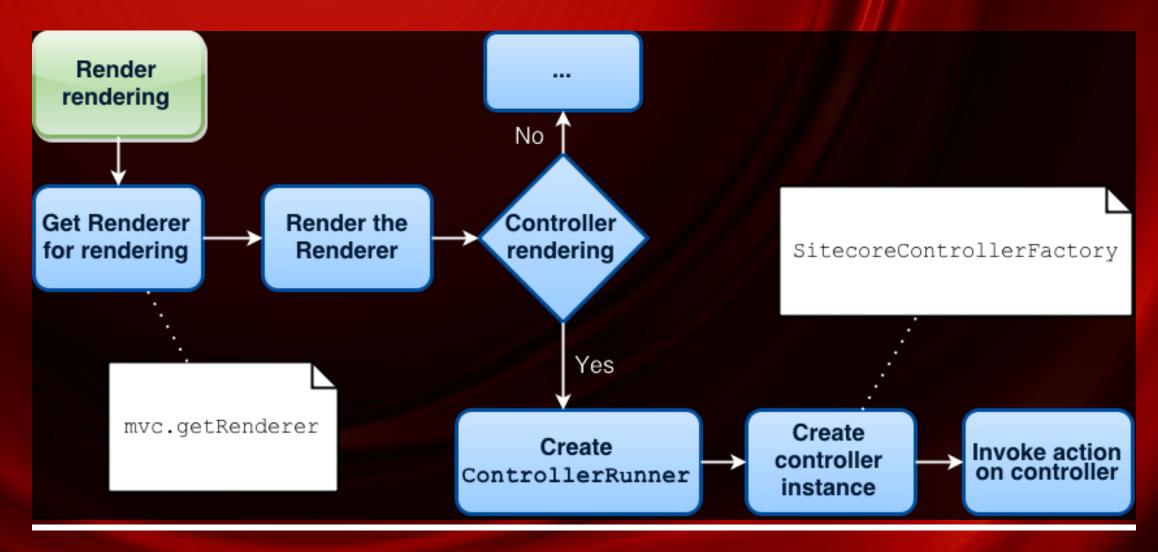












ASP.net MVC vs. Sitecore MVC

ASP.net MVC

- Request correspond to controller action
- One view with several partial views
- 1 controller & 1 action

- Request correspond to Sitecore item
- Views defined in presentation details
- n controllers & n actions

Resources

Comparison from John West

http://bit.ly/SitecoreMvcComparison

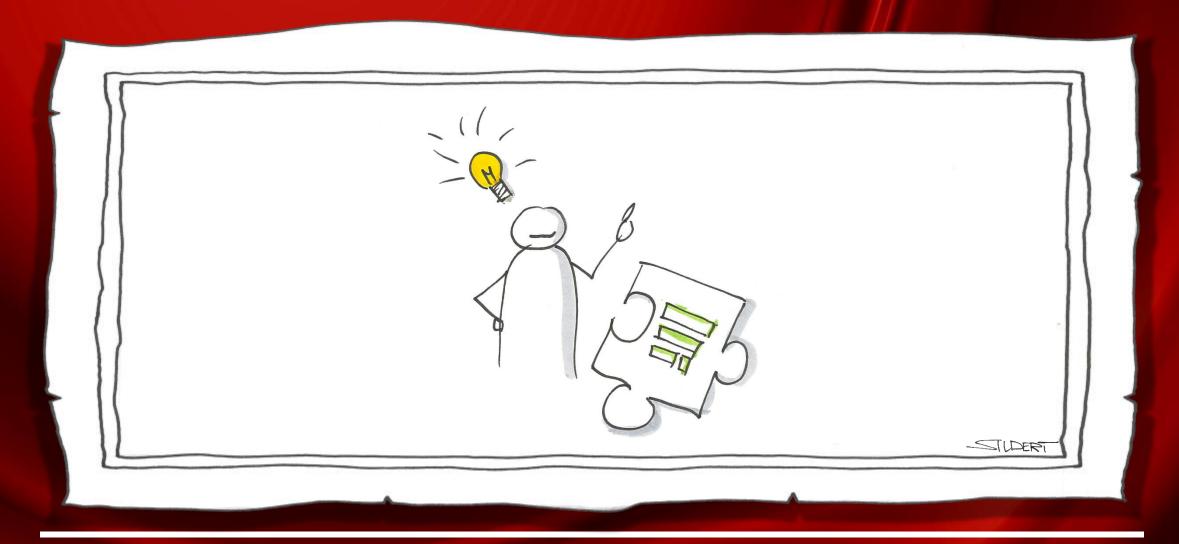
ASP.net MVC Lifecycle

http://bit.ly/MvcLifecycle

Sitecore MVC Pipelines

http://bit.ly/SitecoreMvcPipelines

Multiple Forms



ASP.net MVC form posts

- Each form has 2 actions
 - Handling GET requests
 - Handling POST requests
- Action has ActionMethodSelector
 - [HttpGet] or empty
 - [HttpPost]

ASP.net MVC form posts

```
CODE }
```

Issues with Sitecore?

- Multiple controllers & multiple actions
- Post to same page / url
- Each [HttpPost] action is called
- Each form is validated
- AntiForgeryToken does not work properly

Solutions

- Post via Ajax
- Sitecore MVC Form Handler
- Custom ActionMethodSelector
 - As close to ASP.net MVC as possible
 - None of the described issues

Custom ActionMethodSelector

- Adding a hidden field to the form
 - Unique Id of the rendering
- Post to same page / url
- Adding the ActionMethodSelector to the action
 - Verify the posted rendering id

Custom ActionMethodSelector

CODE }

Resources

- Mine: http://bit.ly/MultipleForms1
- Renoud van Dalen: http://bit.ly/MultipleForms2

MVC Forms localization



MVC Forms localization

- Ways to translate an ASP.net MVC form
 - Use .NET language pack
 - Add static textes
 - Use .NET resource files
- Localization within Sitecore
 - Sitecore dictionaries

MVC Forms localization

CODE }

Translate labels

- Use custom MetaDataProvider
- First create the default metadata for a field
 - Type, Format etc.
- Override the DisplayName

Translate labels

CODE }

Translate labels

- Conflicts with WFFM MVC
 - Override the WFFM provider
 - Register custom provider after WFFM provider

Translate validation messages

- Custom DataAnnotationsModelValidator
- Works as an adapter
- Each validator type needs a custom adapter

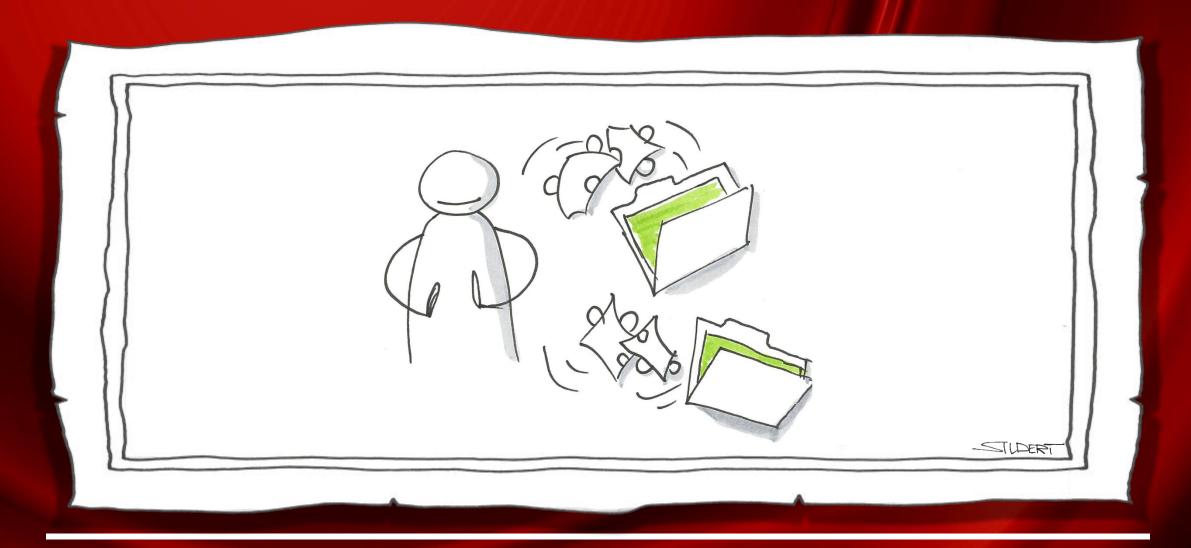
Translate validation messages

```
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```

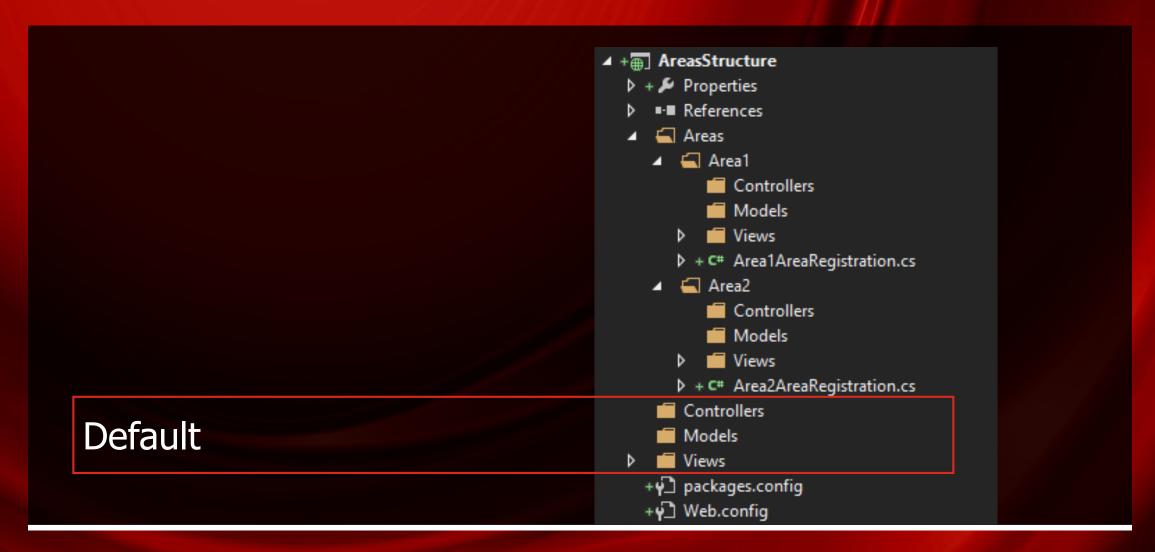
Resources

- Sitecore Usergroup Switzerland
- From \$\mathref{y}\$ @studert and me
- http://bit.ly/FormsLocalization

MVC Areas



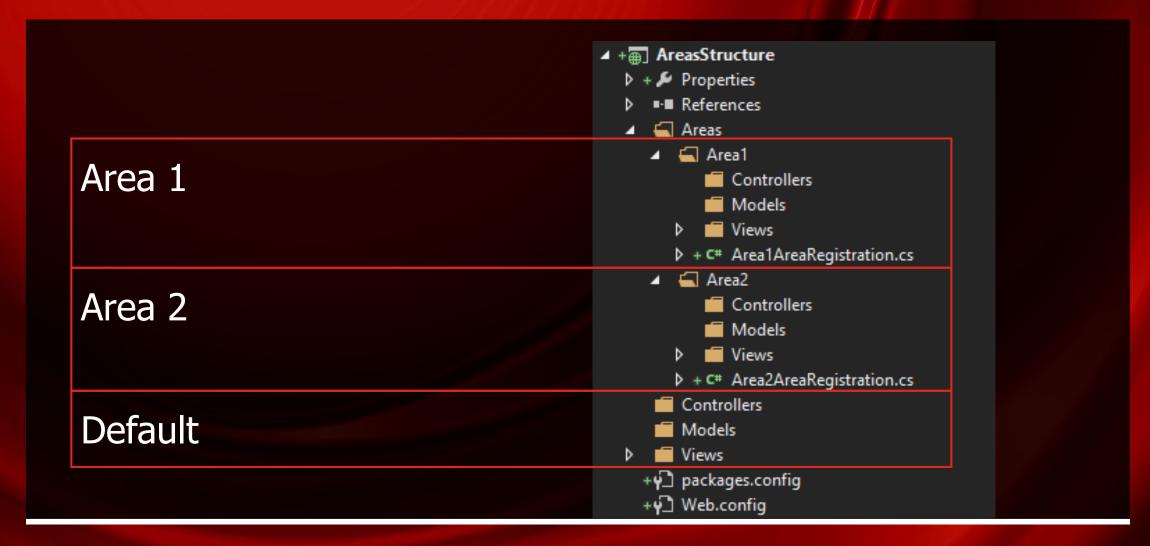
Structure of Areas



Structure of Areas



Structure of Areas



Areas what?

- Split models/views/controllers in different areas
- Used with multiple sites/layouts in one Sitecore instance
- No support by Sitecore, because
 - No area token in Sitecore default route
 - Layout termination over pipelines and presentation details

Solutions

- Resolve in mvc.renderRendering pipeline
- Use custom ControllerRunner and Renderer
- Resolve by <site>

Resolve in mvc.renderRendering pipeline

- Set RouteData.DataTokens["area"]
- Controller is then resolved in area
- Resolve the area in a custom pipeline
 - New fields on folders / renderings
- Resource
 - BrainJocks SCORE: http://bit.ly/MvcAreas1

Resolve in mvc.renderRendering

```
CODE }
```

Use custom ControllerRunner

- Custom ControllerRunner in mvc.getRenderer pipeline
- Also set RouteData-token
- Resolve area by new «Area Controller Rendering»
 - With new AreaControllerRenderer
- Resource
 - Christian van de Luitgaarden: http://bit.ly/MvcAreas2

Use custom ControllerRunner

```
CODE }
```

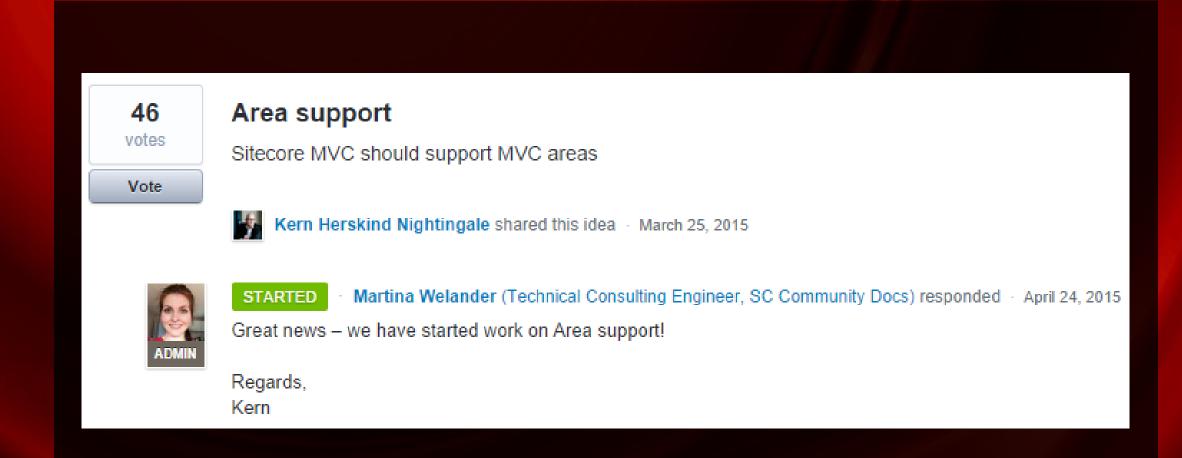
Resolve by <site>

- Adding new route per <site>
 - Configure with new parameter
- Before the Sitecore default route
- Add RouteData-token and constraint to each route
- Resource
 - Chris van de Steeg: http://bit.ly/MvcAreas3

Resolve by <site>

```
{ CODE }
```

But, wait...



Sitecore Area support

- Pattern from BrainJocks
- Multiple strategies to resolve the area
- Extensible by developers

There is always more...



Other resources

- Sample Items in MVC
 http://bit.ly/Sample8Mvc
 A http://bit.ly/Sample8Mvc
- Async Sitecore controllers
 http://bit.ly/AsyncControllers
- Using Dependency Injection to determine MVC Models http://bit.ly/ModelsDI
- BrainJocks SCORE
 http://bit.ly/BJScore

UserVoice

- Sitecore needs your feedback
- Share and vote your ideas
- Not only for MVC ;-)

http://bit.ly/MvcUserVoice

/me

- Private Blog: http://ctor.io
- Sitecore Vibes: http://sitecore.unic.com
- Sitecore Usergroup Switzerland: http://sugch.github.io

Thank you



Thank you

