

The first Umbraco V8-site

Markus Johansson

- Umbraco geek since 2007 (Umbraco 3)
- Umbraco Certified Master
- Package Developer
- Partner at web agency Obviuse
- CodeGarden-Count: 7



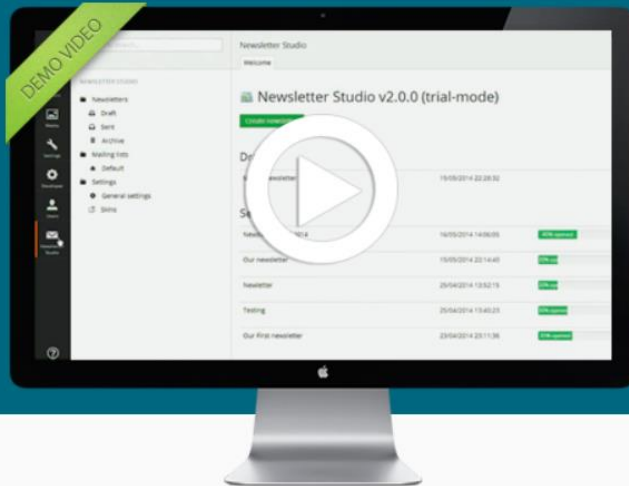


Newsletter Studio

The best and easiest way to send newsletters from Umbraco

[See feature list](#)[Download now](#)

Developed for  umbraco



Create awesome newsletters with Umbraco

Newsletter Studio is a Umbraco package that makes it possible to send out newsletter campaigns from the backoffice of Umbraco. It's simple, it's smart and it's integrated. No more exporting and importing of receivers and no new system to learn – if you love Umbraco you'll love



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Profile picture:

-
-
-
-
-
-
-
-
-
-

🔍 Type to search...

CONTENT

- 🏠 Home
- 📖 Learn
- 🔍 Explore
- 🔧 Extend
- 📄 Blog
- 📞 Contact
- 🗑️ Recycle Bin

Our →

Th

This is

Conte

Will s

editor

Devel

Show

event

Other



Content

- Welcome
- Get Started
- Change Password

Recent activities

Shows recent activities from all users in the back office.

- 11 Jun 2015 17:30:14
 Markus Johansson moved Meetup groups to [recycle bin](#).
- 11 Jun 2015 17:10:43
 Markus Johansson moved A page to [recycle bin](#).
- 11 Jun 2015 17:09:46
 Markus Johansson saved and published [A page](#).
- 11 Jun 2015 14:42:37
 Markus Johansson saved [Explore](#) but did not publish.
- 11 Jun 2015 14:42:05
 Markus Johansson saved and published [Explore](#).
- 10 Jun 2015 19:04:51
 Markus Johansson saved and published [Umbraco Forms](#).
- 10 Jun 2015 19:04:31
 Unicorn Smith saved and published [Blog](#).

Unpublished content

Shows unpublished content that has not been been scheduled for publish.

- 11 Jun 2015 16:42:37
 Explore saved by Markus Johansson but not published or scheduled.
- Your recent activity
- Shows your own recent activities.
- 11 Jun 2015 17:30:14
Unpublished [Meetup groups](#).
 - 11 Jun 2015 17:10:43
Unpublished [A page](#).
 - 11 Jun 2015 17:09:46
Saved and published [A page](#).
 - 11 Jun 2015 14:42:37
Saved [Explore](#) but did not publish.
 - 11 Jun 2015 14:42:05
Saved and published [Explore](#).
 - 10 Jun 2015 19:04:51
Saved and published [Umbraco Forms](#).
 - 10 Jun 2015 19:00:31
Saved [Umbraco Forms](#) but did not publish.
 - 10 Jun 2015 15:52:35
Saved [Codegarden](#) but did not publish.
 - 10 Jun 2015 15:52:20
Saved and published [Codegarden](#).

- 13 Published content nodes
- 2 Nodes in recycle bin
- 1 Members on website
- 1 New members last week

Magic button

/ Register

board



Umbraco V8

Disclaimer:

Can't cover everything

**Disclaimer 2:
I might lie**

Background

- V7 first released 5 years ago
- Lots of legacy from Umbraco 3, 4, 6
- Compromises to keep backwards- compatibility
- Hard to maintain
- Hard to "move forward"



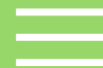
Future

- V8 is a chance to "clean up"
- Get things deep down in core "right"
- No "huge" changes in the way we implement the front end web site





Our Umbraco



v8.0.0



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What to expect?

- Native 1:1 language support (variants / segments)
- Infinite editing
- Dependency Inversion everywhere
- Obsolete stuff (APIs, AR-classes etc) is gone
- Content Apps
- New cache "NuCache" = No more XML



1:1 Language

- Configured on Document Types or Properties
- Front end values are handled "automagically"
- Easy for editors to switch language "context"
- Fallbacks can be configured and extended





Happy thunderous Thursday

Session timed out.

Username

Password

 Show password

Login

- Nodes can have Culture / Segment variants nodes
- A content "item" can be seen as a content "Group"



- Master Node
- Culture variant nodes
- Segment variant nodes



Language Switcher

```
@foreach (var (culture, infos) in Model.Cultures)
{
    <li>
        <a href="@Model.GetUrl(culture)">
            @Umbraco.GetDictionaryValue("Settings/Languages/" + culture)
        </a>
    </li>
}
```



Content for specific language

```
@Model.Value(x => x.Description)
```

```
@Model.Value(x => x.Description, "en-us")
```



Fallbacks

```
@Model.Value(x => x.Description, fallback: Fallback.ToAncestors)
```



- **Default fallbacks:**
 - `Fallback.ToAncestors`
 - `Fallback.ToLanguage`
 - `Fallback.ToDefaultValue`
- **Chained**
 - `Fallback.To(Fallback.ToAncestors, Fallback.ToDefaultValue)`
- **IPublishedValueFallback**



Infinite editing

- Less jumping between sections (Content/Media)
- Opens related edit-view in a "popout"
 - Edit picked media items
 - Edit picked content items
 - Document Type settings
 - Template Editor



English (United States) ▼

Startpage English (United States) ▼

Content

Analytics

Info

Actions ▼

Content

Startpage

- Clients
- About us
- Our offices
- Recycle Bin

Content

+ Reorder

Headline

This is headline

Add content

Article



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque malesuada faucibus enim eget blandit. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Sed vestibulum libero in cursus vehicula. Nam tincidunt sem at sagittis

Preview

Save...

Publish...



Dependency Inversion

- DI everywhere "out of the box"
 - In V7 you had to "roll your own" or use ie. [Our.Umbraco.IoC](#)
- IOC = LightInject (can be switched)
- ApplicationEventHandler -> Components



```
public interface IMeetingsService
{
    IEnumerable<Meeting> GetMeetings();
}
```



```
public class StartpageController : RenderMvcController
```

```
{
```

```
    private readonly IMeetingsService _meetingsService;
```

```
    private readonly UmbracoHelper _umbracoHelper;
```

0 references | 0 changes | 0 authors, 0 changes

```
public StartpageController(IMeetingsService meetingsService, UmbracoHelper umbracoHelper)
```

```
{
```

```
    _meetingsService = meetingsService;
```

```
    _umbracoHelper = umbracoHelper;
```

```
}
```



```
public class DemoComponent : UmbracoComponentBase, IUmbracoUserComponent
{
    public override void Compose(Composition composition)
    {
        composition.Container.Register<IMeetingsService, MeetingsXmlService>();
        composition.Container.Register<StartpageController>();
    }
}
```



```
public class SiteStartup : ApplicationEventHandler
{
    protected override void ApplicationStarted(
        UmbracoApplicationBase umbracoApplication,
        ApplicationContext applicationContext)
    {
        ContentService.Trashing +=
            delegate (IContentService sender, MoveEventArgs<IContent> args)
            {
                foreach (var entity in args.MoveInfoCollection) ...
            };
    }
}
```



```
public class EventHandlerComponent : UmbracoComponentBase, IUmbraoUserComponent
{
    public void Initialize()
    {
        ContentService.Trashing +=
            delegate (IContentService sender, MoveEventArgs<IContent> args)
            {
                foreach (var entity in args.MoveInfoCollection) {...}
            };
    }
}
```



- RenderMvcController
- SurfaceControllers
- UmbracoApiController
- Property Value Converters
- You need to pass them to the IOC-container

```
composition.Container.Register<StartpageController>();
```



Obsolete stuff

Services and APIs



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Old APIs

```
var page = new umbraco.cms.businesslogic.web.Document(1750);
```

```
var adminUser = new umbraco.BusinessLogic.User(0);
```

```
var domains = Domain.GetDomains();
```

```
var url = umbraco.library.NiceUrl(1500);
```



V8

Dependency Injection

Via constructor

```
var page = _contentService.GetById(1750);
```

```
var adminUser = _userService.GetUserById(0);
```

```
var domains = _domainService.GetAll(false);
```

```
var url = _umbracoHelper.Url(1500);
```



V8

Base class properties

RenderMvcController, SurfaceController, UmbracoApiController

```
var page = Services.ContentService.GetById(1750);  
  
var adminUser = Services.UserService.GetUserById(0);  
  
var domains = Services.DomainService.GetAll(false);  
  
var url = Umbraco.Url(1500);
```



V7

V8

Using services

```
var content = _contentService.Create(...);  
content.SetValue("phone", ParsePhoneNr(nr));  
_contentService.SaveAndPublish(content);
```



Service level Unit of Work

```
using (var scope = _scopeProvider.CreateScope())
{
    var content = _contentService.Create(...);
    content.SetValue("phone", ParsePhoneNr(nr));
    _contentService.SaveAndPublish(content);

    scope.Complete();
}
```



Database



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Data from custom Table

```
using (var db =
ApplicationContext.Current.DatabaseContext.Database)
{
    var sql = new Sql().Where<OrderDto>(x=>x.Id==id)
    var dtos = db.Fetch<OrderDto>(sql);
    return Mapper.Map<Order>(dtos);
}
```



Data from custom Table

```
using (var scope = _scopeProvider.CreateScope())
{
    var sql = scope.SqlContext.Sql()
                .Select<MeetingDto>()
                .Where<MeetingDto>(x => x.Id == id);

    var dto = scope.Database.Fetch<MeetingDto>(sql);
    var res = Mapper.Map<Meeting>(dto);
}
```



Views



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```
@inherits UmbracoTemplatePage<Startpage>
```

```
<h1>@Model.Content.MainHeading</h1>
```

```
@CurrentPage.MainBody
```

Dynamic



V7

V8

```
@inherits UmbracoViewPage<Startpage>
```

```
<h1>@Model.MainHeading</h1>
```

```
@Model.MainBody
```



Render Model




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```
public class StartpageController : RenderMvcController
{
    public ActionResult Index(RenderModel model)
    {
        return base.Index(model);
    }
}
```



```
public class StartpageController : RenderMvcController
{
    public ActionResult Index(ContentModel<Startpage> model)
    {
        return base.Index(model);
    }
}
```

 IPublishedContent



Property Values



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UmbracoViewPage

```
@(Model.GetProperty<string>("description"))
```

```
@Model.GetProperty("description")
```

```
@Umbraco.Field("description")
```



UmbracoTemplatePage<T>

```
@currentPage.Description
```

```
@Model.Content.GetPropertyValue("description")
```

```
@(Model.Content.GetPropertyValue<string>("description"))
```



V7

V8

Models Builder + UmbracoViewPage<T>

```
@inherits UmbracoViewPage<Startpage>
```

```
@Model.Description
```



V8

```
@Model.Value("description")
```

```
@Model.Value("description", "en-us");
```

```
@Model.Value(x => x.Description)
```

```
@(Model.Value<DateTime>("publishDate").ToString("f"))
```

```
@Model.Value(x => x.Description, "en-us")
```

```
@Model.Value(x => x.Description, fallback: Fallback.ToAncestors)
```



Contexts & Helpers



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```
var umbContext = UmbracoContext.Current;  
  
var cacheHelper = ApplicationContext.Current.ApplicationCache;  
  
var logger = ApplicationContext.Current.ProfilingLogger.Logger;
```



V8

Umbraco.Web.Composing.Current

```
var umbContext = Current.UmbracoContext;
```

```
var cacheHelper = Current.ApplicationCache;
```

```
var logger = Current.Logger;
```



```
public StartpageController(ILogger logger, CacheHelper cacheHelper)
{
    _logger = logger;
    _cacheHelper = cacheHelper;
}
```



Getting ready for V8

- Stop using the old `umbraco.something`-classes
- Use Models Builder + `UmbracoViewPage` in your views



Content Apps

- Not Property Editors
- Not replacement for Tabs
- It's "Content Aware Apps"



English (United States) ▼

Startpage English (United States) ▼



Actions ▼

Content

Startpage

Client

About us

Our offices

Recycle Bin

Content

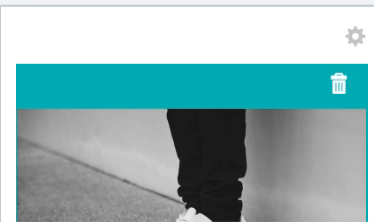
Reorder

Headline

This is headline

Add content

Article



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque malesuada faucibus enim eget blandit. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Sed vestibulum libero in cursus vehicula. Nam tincidunt sem at sagittis

Preview

Save...

Publish...



- SEO-audit-tool
- Display 301-redirects /links pointing to this page
- Show node relations
- Newsletter-module? =D



/app_plugins/myPlugin/package.manifest

```
"contentApps": [  
  {  
    "name": "Analytics", // required - the name, ears under the icon  
    "alias": "appAnalytics", // required  
    "weight": 0, // optional, default is 0, control sorting  
    "icon": "icon-pie-chart", // required - the icon to use  
    "view": "~/App_Plugins/Obviuse/ContentApps/view.html" // required  
  }  
],
```



/app_plugins/myPlugin/package.manifest

```
"contentApps": [  
  {  
    "name": "Analytics", // required - the name, ears under the icon  
    "alias": "appAnalytics", // required  
    "weight": 0, // optional, default is 0, control sorting  
    "icon": "icon-pie-chart", // required - the icon to use  
    "view": "~/App_Plugins/Obviuse/ContentApps/view.html", // required  
    "show": [  
      "+content/startPage",  
      "+content/contentPage"  
    ]  
  }  
],
```



- HTML-View
- AngularJS-controller (optional)
- BackofficeApiController (optional)
- Can access current content node
 - `editorState.current.id;`
- Documentation on our.umbraco.org



NuCache

- Stores "IPublishedContent"-objects, don't have to recreate IPublishedContent from XML
- umbraco.config is gone – No more XML
- Caches both Content and Media
- We don't really have to care when building a site



/app_data/



NuCache.Content.db



NuCache.Content.tlog



NuCache.Media.db



NuCache.Media.tlog



Umbraco.sdf



BPlusTree<int, ContentNodeKit>

Content ID

```
internal struct ContentNodeKit
{
    public ContentNode Node;
    public int ContentTypeId;
    public ContentData DraftData;
    public ContentData PublishedData;

    public bool IsEmpty => Node == null;
}
```



Packages?

Yeaassenno

- UI (AngularJS etc) will be backwards compatible
- Underlying services might change
- DB-schema-changed might impact some packages
- Most Property Editors will probably work



Try it out?

- github.com/umbraco/umbraco-cms/
 - Branch: temp8
 - V8_GETTING_STARTED.md



Questions?



SuperTak!!