UMBRACOSPARK #SPARKQA

Why everyone should be an Umbraco package developer

BY LOTTE PITCHER



















Hello!

Lotte Pitcher





C-Trib

Photo credit Doug Robar































1 HQ steward & 6 community members

Aim to empower Umbraco package developers and to encourage more community members to create and use packages.





















UMBRACOSPARK #SPARKQA

Why everyone should be an Umbraco package developer

Everyone?

















UMBRACOSPARK #SPARKQA

Why everyone should be an Umbraco package developer contributor (and how)



















Umbraco Commercial

Forms, Workflow, Deploy



Community Licensed / Freemium uSync Complete, Vendr, uMarketingSuite, Konstruct, Newsletter Studio, Translation Manager, uSkinned ...



Community Free / OSS

uSync, Contentment, URL Tracker, Diplo God Mode, Cultiv Hangfire, Feature Flags, Accessibility Reporter ...



















The Launch of v8

- February 2019 Surprise!
- Few (no?) packages were properly ready
- Not widely adopted until they were
- uSync
 - Beta 1 released with v8 launch
 - Three months until officially supported























The Launch of v9

- Move to .NET Core
 - Version branches
 - Multi-targeting
- September 2021
- Feature complete beta 5 months before
- First RC 2.5 months before
- uSync released same day
- #H5YR everyone involved



































































The Future – v12



Small Impact





















The Future – v13 (LTS)



BIG IMPACT















































How Can You Contribute?

CREATE A PACKAGE





















My Recent Experience

24 DAYS IN UMBRACO





















v7 cloud site

24 DAYS IN UMBRACO

Getting Friendly with Umbraco by Joe Panayiotou

2 Scripting an Azure deployment of Umbraco 9

Advanced Tips For Content Apps by Tim Payne

Trying to perfect my imperfection(?)

by Büşra Şengül

same design 10 years













[2021]

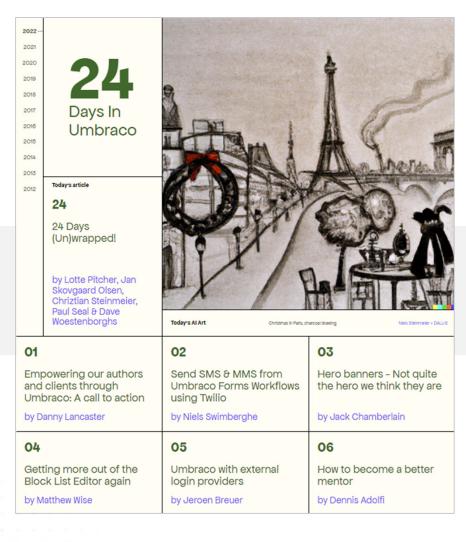








v10 cloud site



















new design





Chriztian Steinmeier
Mr XSLT

The Requirement

⁄larkdown test		Con	 Actions
Content Tagging	Author(s) Meta		
			<i>(</i>
Slug			
Publishing Day			
Notes			















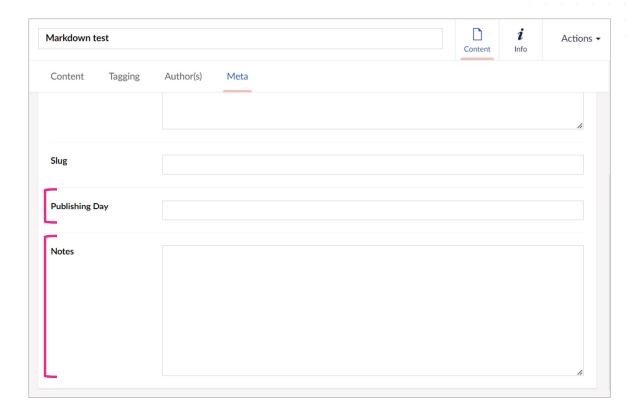






- Build a custom number and textarea property
- Textstring just in case
- Add to 24 days solution

My Initial Plan















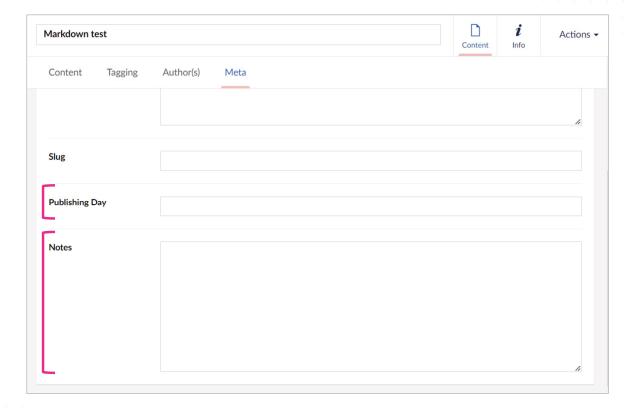








My Initial Plan























[):CODECABIN

Umbraco Unconference

• 3 nights / 2 full days

• 20 Developers

Sessions and hacking























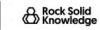


















Applications Are Open!

Fri 8 – Mon 11 Sep









https://codecab.in

Apply by Jul 7



































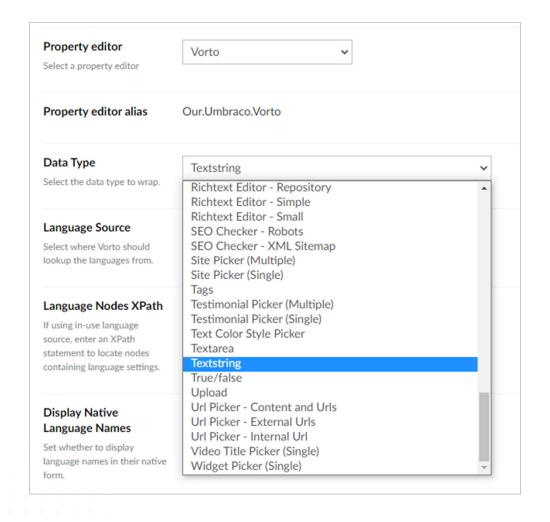
































Community Team at HQ Odense DK















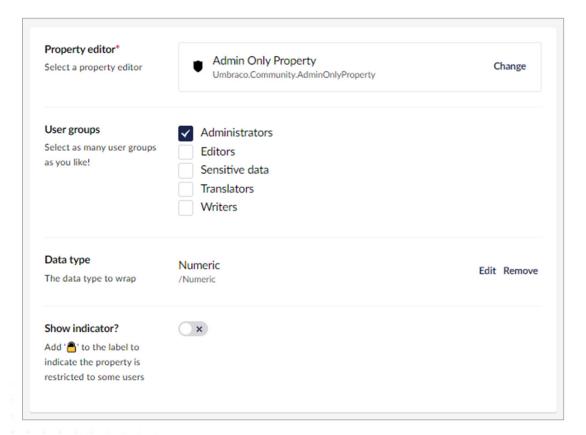








The Implementation















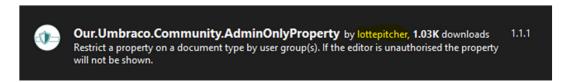








Published!

















































Paying it Forward





















UMBRACOSPARK #SPARKQA

The Scaling of Lee Kelleher



















The Scaling of Lee Kelleher























Package Development Process

R ESEARCH

D ISCUSSION

D ECISION

D EVELOPMENT

R ELEASE

M AINTENANCE





















Research



Does a similar package already exist?













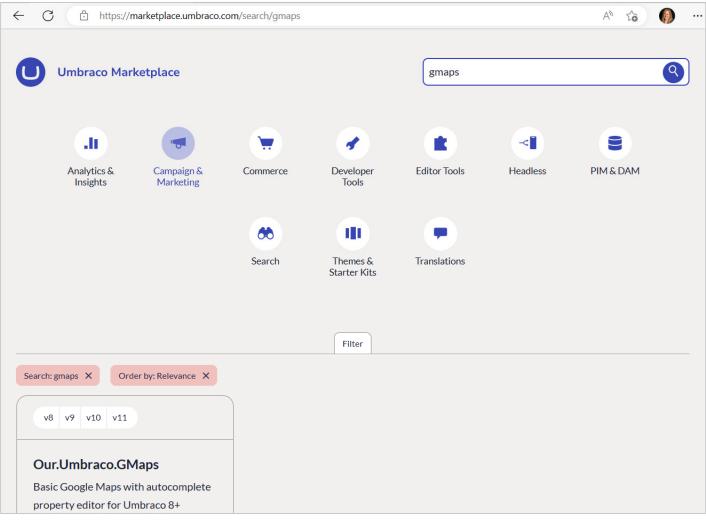








R D D D

























Research



Ask on Community Discord #modern-umbraco



Keep updated with Umbraco Marketplace releases

























Does a package exist?









No























Don't have an idea?



Umbraco Community Package Ideas Repo



github.com/leekelleher/umbraco-package-ideas















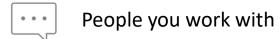








Discussion





After party tonight!

Local meetup























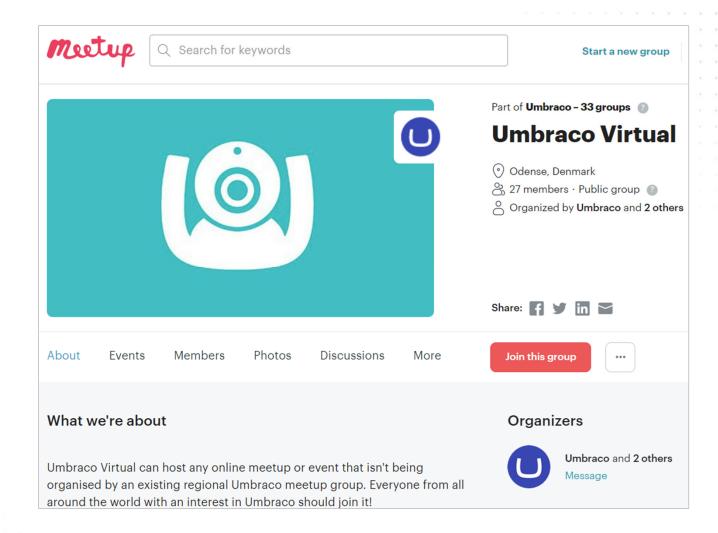


" Packages Question Time "

New Virtual Meetup

1st one, with Lee, on Friday March 24th lunchtime for approx. 1 hour

Not recorded























<< Paying it Forward: Idea 1





























Decision - Name

What's in a name? That which we call a rose by any other name would smell just as sweet.

- Will Shakespeare, 1597



























Decision - Name

What's in a name? That which we call a rose by any other name might be harder to discover in the Umbraco Marketplace.

- Lotte Pitcher, 2023















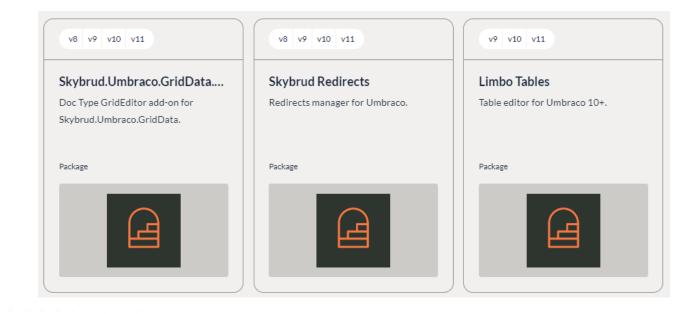








Decision - Name









































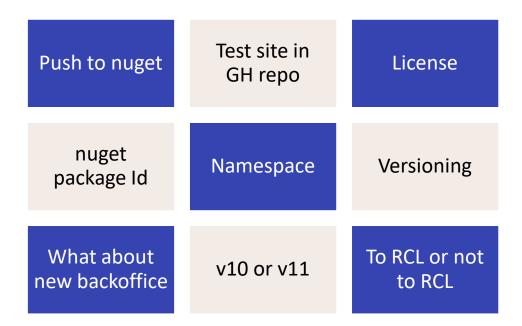






Decisions... Decisions... Decisions...

R D D

























Development – Finally!

Core package template

























```
EXPLORER
                                   MyNewPackage.csproj X
OPEN EDITORS
                                    MyNewPackage.csproj
                   古古ひ百
                                           <Project Sdk="Microsoft.NET.Sdk">
✓ MYNEWPACKAGE
                                             <PropertyGroup>

✓ <u>App Plugins</u> \ MyNewPackage

                                               <TargetFramework>net6.0</TargetFramework>
  ■ package.manifest
                                               <ContentTargetFolders>.</ContentTargetFolders>

∨ buildTransitive

                                               <Product>MyNewPackage</Product>
 MyNewPackage.targets
                                               <PackageId>MyNewPackage</PackageId>
MyNewPackage.csproj
                                               <Title>MyNewPackage</Title>
                                               <Description>...</Description>
                                               <PackageTags>umbraco plugin package</PackageTags>
                                             </PropertyGroup>
                                             <ItemGroup>
                                              <PackageReference Include="Umbraco.Cms.Web.Website" Version="10.4.0" />
                                              <PackageReference Include="Umbraco.Cms.Web.BackOffice" Version="10.4.0" />
                                             </ItemGroup>
                                             <ItemGroup>
                                              <Content Include="App_Plugins\MyNewPackage\**" ExcludeFromSingleFile="true" CopyToPu</p>
                                              <None Include="buildTransitive\**" Pack="true" PackagePath="buildTransitive" />
                                            </ItemGroup>
```















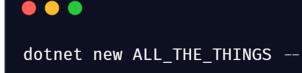


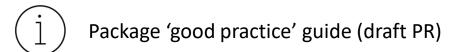




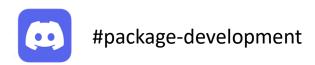


Now What?!































Release: Configure and Test

Configure

- Version number
- nuget Package settings
- Readme for nuget
- Logo for nuget
- Build for nuget
- Add a Umbraco-marketplace.json file
- Add Umbraco-marketplace tag

Test

- Test nuget package from local source
- Use "Nuget Package Explorer" tool
- Marketplace validation tool



dotnet add package Umbraco.Community.MyNewPackage
--source "C:\MyNewPackage\src\MyNewPackage\bin\Release"
--prerelease

Release

- Upload to nuget
- Should appear on Marketplace at 0400 UTC





















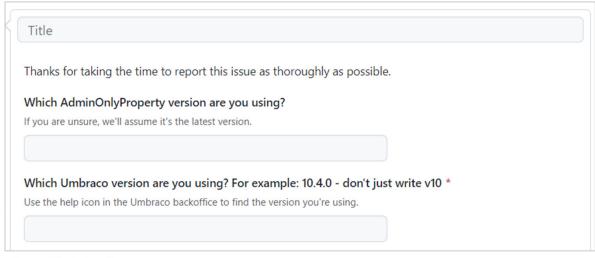
R D D R

Maintenance



A Happy GitHub Repo

- Good readme for people using package
- Contribution guidelines
- Issue templates to encourage good quality bug reports and feature requests























R D D D R

Maintenance



A Happy GitHub Repo

- Good readme for people using package
- Contribution guidelines
- Issue templates to encourage good quality bug reports and feature requests



Easy Releases

 GitHub action for releasing to nuget when tag pushed?





















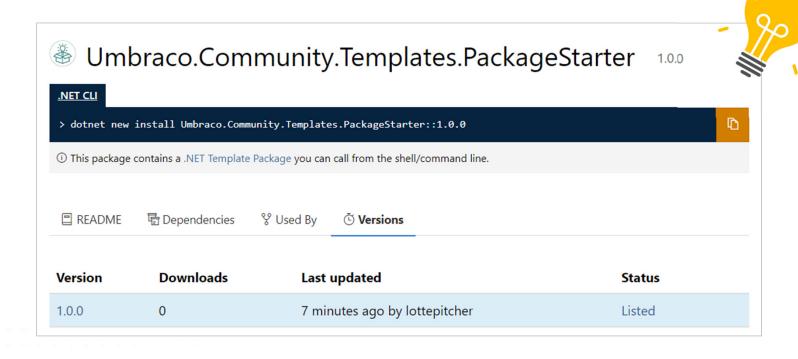








Decisions / Development Revisit

























Development Revisited



Use this dotnet new template to get a head start for creating, releasing and maintaining Umbraco Packages for v10+.

I've called it an 'opinionated' package starter template because lots of decisions have been made for you. This means that all you *really* have to worry about is adding your package code. A lot of the other stuff involved in releasing a package and having a well-maintained open source GitHub repository has been done already.

Of course none of these decisions are irreversible. Once you've used the template you can change whatever you need to. Please make sure you read this readme so you understand what choices you are starting with so that you can change them where necessary before you push to GitHub, and definitely before you publish to nuget!



github.com/LottePitcher/opinionated-package-starter

























Development Revisited

An "opinionated" package template



dotnet new install Umbraco.Community.Templates.PackageStarter

























Development Revisited

An "opinionated" package template

```
• • •
dotnet new umbracopackagestarter -n MyNewPackage
 --authorName "Lotte Pitcher"
 --githubUser "LottePitcher"
 --githubRepo "MyNewPackage"
```





















- > .github
- > docs
- ∨ src ∠
 - > MyNewPackage
 - > MyNewPackage.TestSite
- .editorconfig
- **■** MyNewPackage.sln
- .gitignore
- **R** LICENSE
- {} umbraco-marketplace.json

Creates a whole GitHub repository folder for your project /src folder contains:

- Package project
- Test website
- Solution file

```
{} umbraco-marketplace.json > ...
          "$schema": "https://marketplace.umbraco.com/umbraco-marketplace-schema.json",
          "AuthorDetails": {
            "Name": "Lotte Pitcher",
            "ImageUrl": "https://github.com/LottePitcher.png"
          },
          "Category": "",
          "Description": "",
          "LicenseTypes": [ "Free" ],
          "IssueTrackerUrl": "https://github.com/LottePitcher/MyNewPackage/issues",
          "PackageType": "Package",
 11
          "Tags": [],
12
          "Title": "MyNewPackage"
13
        }
```





















```
    ✓ MYNEWPACKAGE
    > .github
    > docs
    ✓ src
    ✓ MyNewPackage
    ✓ App_Plugins \ MyNewPackage \ \ lang
    ♠ en.xml
    ✓ buildTransitive
    ♠ Umbraco.Community.MyNewPackage.targets
    ♠ MyNewPackage.csproj
    C MyNewPackageComposer.cs
    C MyNewPackageManifestFilter.cs
```

```
src > MyNewPackage > MyNewPackage.csproj
      <Project Sdk="Microsoft.NET.Sdk">
        <PropertyGroup>
         <TargetFramework>net6.0</TargetFramework>
         <ImplicitUsings>enable</ImplicitUsings>
         <Nullable>enable</Nullable>
         <ContentTargetFolders>.</ContentTargetFolders>
         <Product>Umbraco.Community.MyNewPackage</Product>
         <PackageId>Umbraco.Community.MyNewPackage
         <Title>MyNewPackage</Title>
         <Description>...
 10
         <PackageTags>umbraco;umbraco-marketplace
 11
         <RootNamespace>Umbraco.Community.MyNewPackage
 12
         <GeneratePackageOnBuild>True</GeneratePackageOnBuild>
 13
         <Version>0.1.0</Version>
         <Authors>Lotte Pitcher</Authors>
 15
         <Copyright>2023 © Lotte Pitcher</Copyright>
         <PackageProjectUrl>https://github.com/LottePitcher/MyNewPackage
 17
         <RepositoryUrl>https://github.com/LottePitcher/MyNewPackage
         <PackageReadmeFile>README_nuget.md
         <RepositoryType>git
         <PackageLicenseExpression>MIT</PackageLicenseExpression>
 21
       </PropertyGroup>
```





















- > .github
- > docs
- ✓ src
- ✓ MyNewPackage
- ✓ App_Plugins \ MyNewPackage \ lang
- nen.xml
- ∨ buildTransitive
- Umbraco.Community.MyNewPackage.targets
- MyNewPackage.csproj
- MyNewPackageComposer.cs
- MyNewPackageManifestFilter.cs

Lang file

Targets file with the name of the nuget package, not the project!





















- > .github
- > docs
- ✓ src
- ✓ MyNewPackage
- ✓ App_Plugins \ MyNewPackage \ lang
- n.xml
- ∨ buildTransitive
- Umbraco.Community.MyNewPackage.targets
- MyNewPackage.csproj
- MyNewPackageComposer.cs
- MyNewPackageManifestFilter.cs





















- ✓ .github
- ✓ ISSUE_TEMPLATE
- ! bug.yml
- ! config.yml
- ! feature_request.yml
- ✓ workflows
- ! release.yml
- ▼ CONTRIBUTING.md
- (i) README.md
- ✓ docs
- README_nuget.md
- > src
- gitignore
- ↑ LICENSE
- {} umbraco-marketplace.json

```
.github > (1) README.md > (2) # MyNewPackage
      # MyNewPackage
      [![Downloads](https://img.shields.io/nuget/dt/Umbraco.Community.MyNewPackage?color=cc9
      [![NuGet](https://img.shields.io/nuget/vpre/Umbraco.Community.MyNewPackage?color=0273B
      [![GitHub license](https://img.shields.io/github/license/LottePitcher/MyNewPackage?col
      TODO: describe your package
      Including screenshots is a really good idea!
 11
      If you put images into /docs/screenshots, then you would reference them in this readme
 12
 13
      kimg alt="..." src="https://github.com/LottePitcher/MyNewPackage/blob/develop/docs/scr
 17
      ## Installation
      Add the package to an existing Umbraco website (v10.4+) from nuget:
 21
      TODO *provide any other instructions for someone using your package*
```





















- ✓ .github
- ✓ ISSUE_TEMPLATE
- ! bug.yml
- ! config.yml
- ! feature_request.yml
- ✓ workflows
- ! release.yml
- **▼** CONTRIBUTING.md
- (i) README.md
- ✓ docs
- ▼ README_nuget.md
- > src
- gitignore
- **R** LICENSE
- {} umbraco-marketplace.json

```
docs > ▼ README_nuget.md > № # MyNewPackage

# MyNewPackage

[![Downloads](https://img.shields.io/nuget/dt/Umbraco.Community.MyNewPackage?color=cc9

[![NuGet](https://img.shields.io/nuget/vpre/Umbraco.Community.MyNewPackage?color=0273B

[![GitHub license](https://img.shields.io/github/license/LottePitcher/MyNewPackage?col

TODO: describe your package for nuget audience
```











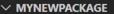












- ✓ .github
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 - ! bug.yml
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- ✓ workflows
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- **▼** CONTRIBUTING.md
- (i) README.md
- ✓ docs
- ▼ README_nuget.md
- > src
- .gitignore
- **1** LICENSE
- {} umbraco-marketplace.json

Customised issue templates for GitHub

GitHub Action to publish to nuget when you push a tag to GitHub













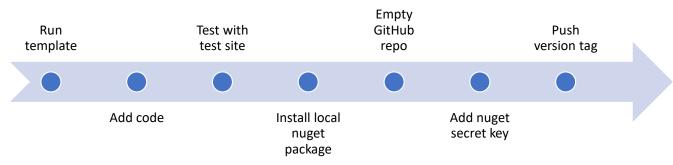






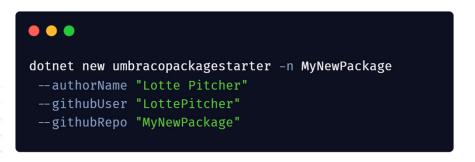
OPST Workflow

R D D D

























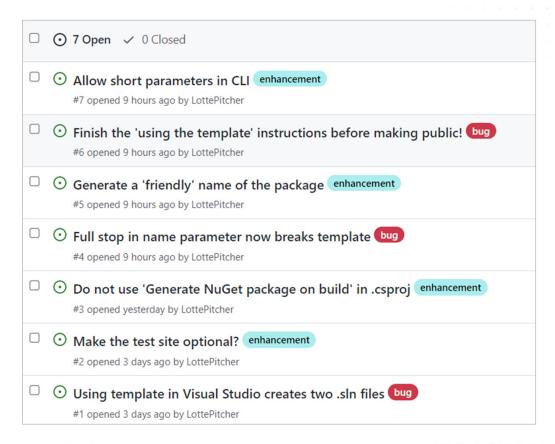






OPST for Future Me. You?

















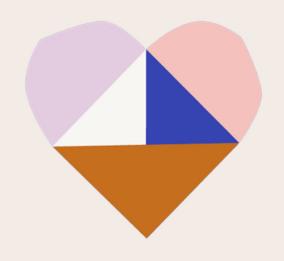








<< Paying it Forward – Idea 2























Custom dotnet new Templates

- Take a working project or solution
- Add /.templates.config/ template.json
 - Define the 'sourceName': the phrase that will get replaced with name parameter
 - Define your rules, such as:

- Exclude folders / files
- Rename folders / files
- Generate new Guids
- Generate new port numbers
- Specify custom parameters
- Run 'post actions' e.g. restore nuget packages
- And a lot more...





















How Can You Contribute?

COLLABORATE ON EXISTING PACKAGE













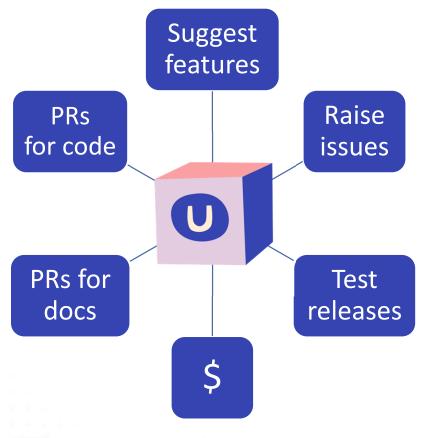








Collaborate on existing package













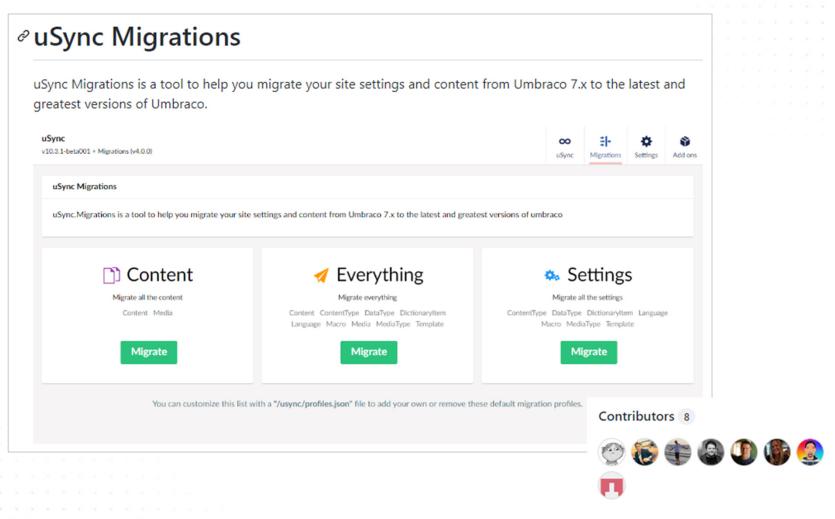
































How Can You Contribute?

EXPRESS YOURSELF

















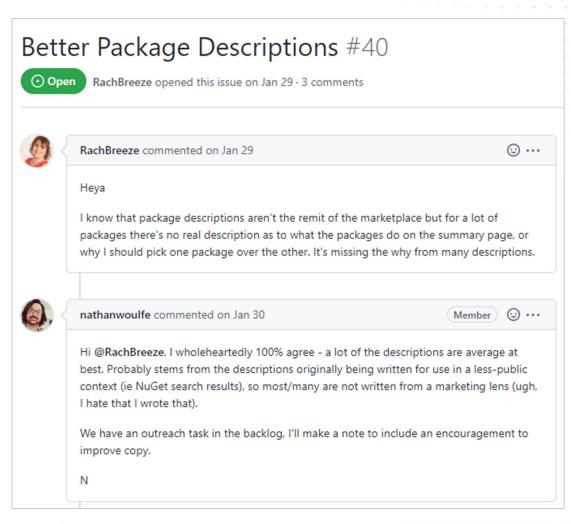




Express yourself!

Use the *new* marketplace

• Be more like Rachel Breeze



















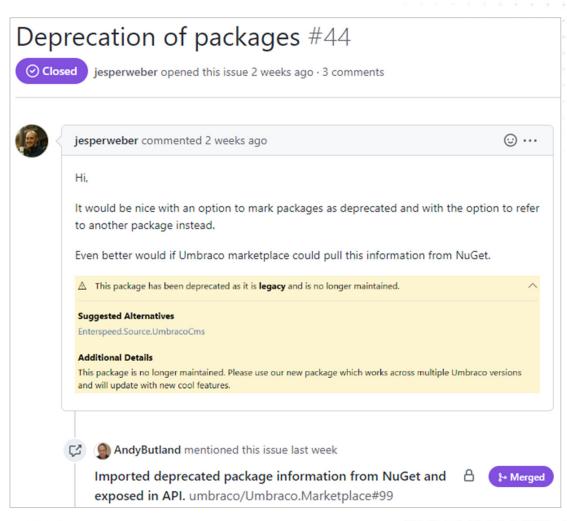




Express yourself!

Use the *new* marketplace

• Be more like Jesper Weber























Express yourself!

Nominate Package Awards

- What package(s) have had most impact for you in last year?
- Deadline: April 14th
- Winners announced in Awards Show on Wednesday evening at Codegarden

Join the Package Team!

- Applications are opening soon...
- Ask myself or Nik Rimington if you want to know more
- I cannot recommend the experience enough!





















Just a Final Reminder





















Call To Actions

- Look for collaboration options as v13 approaches
 - Maintainers, please ask for help when you're ready
 - Consumers, please let them you're there to help when the time is right
- Join a *Packages Question Time* event
 - As "panellist", i.e. you have experiences to share
 - Or if you have questions to ask, or ideas to talk through
- Check out the Opinionated Package Starter Template
- Become a package developer?













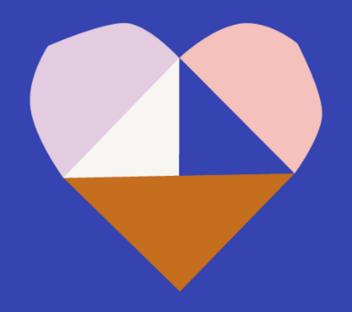








Thank You!



linktr.ee/lottepitcher

lotte.dev

















