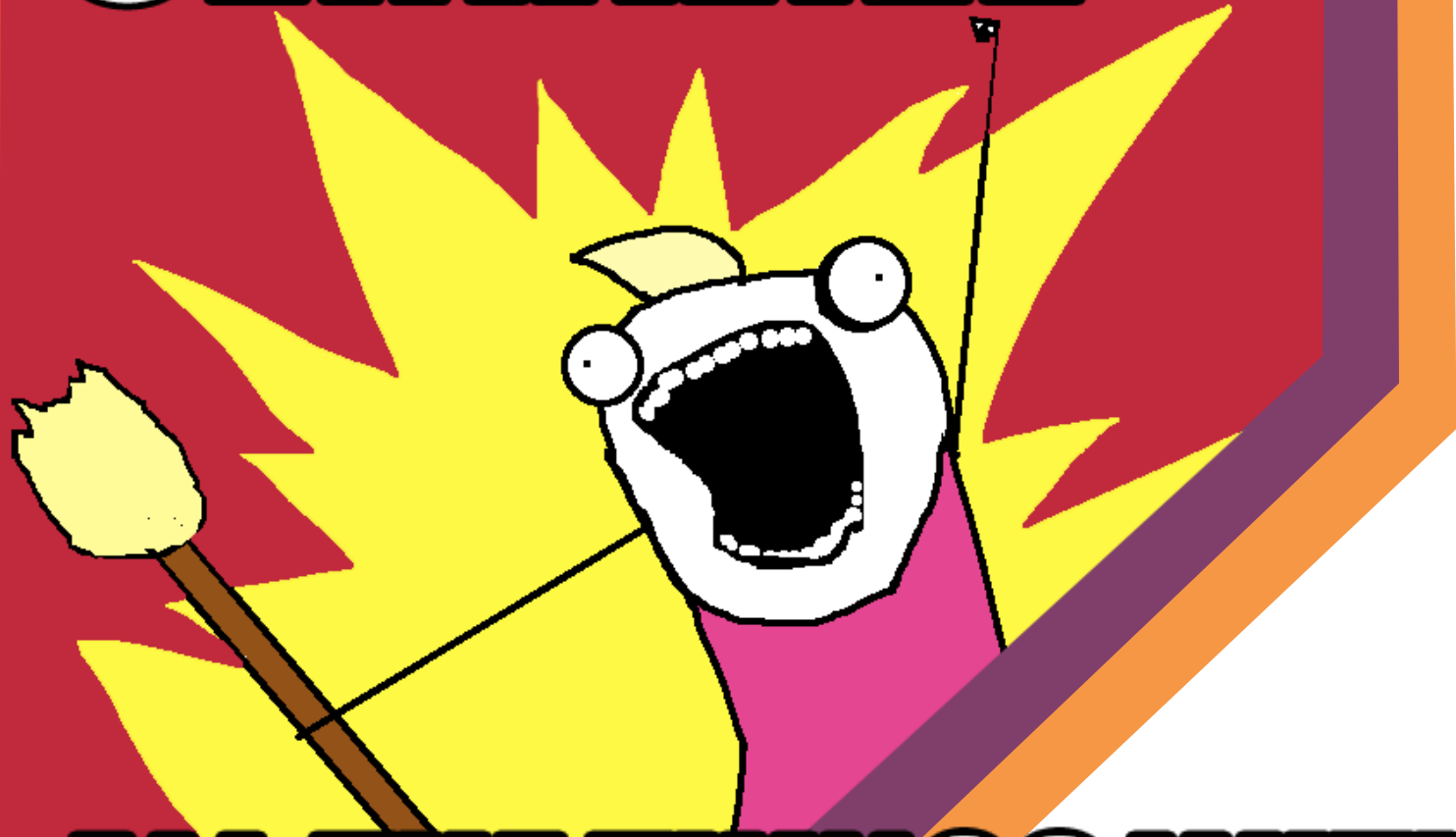


SERIALIZE



ALL THE THINGS WITH



SUGCON
EUROPE 2016

Kam Figy

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#sugcon




Unicorn

BY CONNECTIVE

- Sitecore dev artifacts are a mixture of code files and items, such as templates or renderings.
- Items are stored in the Sitecore database, code is stored in source control.
- Source control commits are incomplete without the items that complement the code. This is bad.
- Serialization turns database items into files, so they can be committed too.

- You choose which items to serialize.
- Database items are written to files on disk.
- Changes in Sitecore are updated to disk in real time.
- Changes to disk are updated into Sitecore in real time.
- Or, choose to pull disk updates manually in a Sync.
- Merging is always done on files.

Sounds like you've used the built in serialization then 😊

- Merge conflicts happen sometimes.
- Unicorn uses  *Rainbow*, a YAML-based format.
- Designed to be easy to read in a text editor.
- Very easy to merge when conflicts happen.
- Filesystem hierarchy also human readable.

Rainbow Serialized Multilist:

```
- ID: "12c33f3f-86c5-43a5-aeb4-5598cec45116"
```

```
Hint: __Base template
```

```
Type: tree list
```

```
Value: |
```

```
{117D15A6-3DCE-4F27-AE77-C62AF36E7844}
```

```
{E1905A91-E926-47FD-9F63-0269E23EBD0F}
```

```
{39889053-84C2-4D33-BF01-0D51DF5A1E8A}
```

Sitecore Serialized Multilist:

```
----field----
```

```
field: {12C33F3F-86C5-43A5-AEB4-5598CEC45116}
```

```
name: __Base template
```

```
key: __base template
```

```
content-length: 116
```

```
{117D15A6-3DCE-4F27-AE77-C62AF36E7844} | {E1905A91-E926-47FD-9F63-0269E23EBD0F} | {39889053-84C2-4D33-BF01-0D51DF5A1E8A}
```

Rainbow Serialized Layout:

```
- ID: "04bf00db-f5fb-41f7-8ab7-22408372a981"  
  Hint: __Final Renderings  
  Type: Layout  
  Value: |  
    <r xmlns:p="p" xmlns:s="s"  
      p:p="1">  
        <d  
          id="{FE5D7FDF-9AA3-B5FBD009C9F3}">  
            <r  
              uid="{AD37B968-B790-305758230588}"  
              s:id="{2756E05-9DA5-EA62111A9D29}"  
              s:ph="wrapper" />  
            </d>  
          </r>
```

Sitecore Serialized Layout:

```
----field----  
field: {04BF00DB-F5FB-41F7-8AB7-  
22408372A981}  
name: __Final Renderings  
key: __final renderings  
content-length: 210  
  
<r xmlns:p="p" xmlns:s="s" p:p="1"><d  
id="{FE5D7FDF-89C0-4D99-9AA3-  
B5FBD009C9F3}"><r uid="{AD37B968-7038-4A41-  
B790-305758230588}" s:id="{2756E056-CAD3-  
4816-9DA5-EA62111A9D29}" s:ph="wrapper"  
/></d></r>
```

Demo



Getting things done
with Unicorn

Dev

Content

Code
Review

Continuous
Integration



**And now for something
not quite completely different.**

- Sync security roles or users just like items.
- Integrates with item configurations.
- Uses YAML just like Rainbow.
- Roles are serialized in reverse of the default.
- Rich feedback just like Unicorn for items.
- Significant contributions by Habitat dev team.
- Separate NuGet packages.

Users & Roles Demo



Lars needs to be able to edit content, but we don't want to give him admin rights ;)

Users

Roles





Tak.

Unicorn is available from NuGet

Find me @kamsar

#unicorn on Community Slack

Open source: github.com/kamsar

Habitat + Unicorn video: <https://goo.gl/BBYrvE>

This presentation: <https://youtu.be/3EJ4vLbZuto>