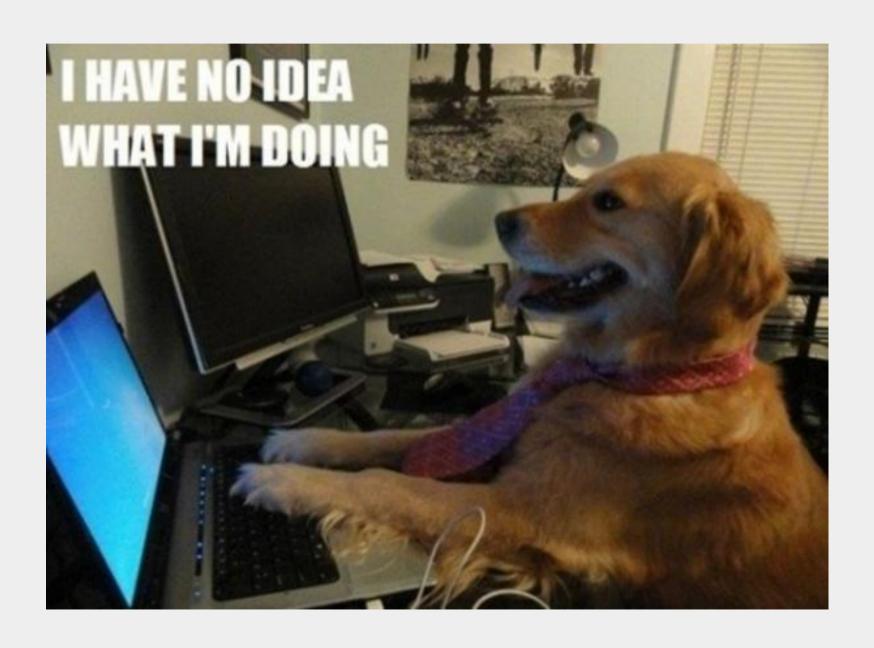


About Me

- Freelance Web Developer
- PHPBench
- CMS Developer
 - yProximité
 - Symfony CMF
 - Sulu CMS

Never made a website!



Other Symfony-like CMS systems

- Drupal 8
- Symfony CMF
- Sulu CMS
- Grav (flat file)
- October CMS (laravel)
- PageKit

Drupal 8

- Twig
- Uses Symfony components
- Uses Symfony CMF Routing component
- Would seem to do everything that I require and more.

Drupal 8

- All files in web root by default
- No PSR-0/2!
- No Github!
- Configuration in the database by default
- Mouse-click configuration by default
- Composer support nascent
- DI container is global
- .. basically its unfamiliar
- Do I want to commit myself to this?

Bolt CMS

- Silex
- Twig
- Doctrine DBAL
- Great default configuration

Bolt Manifesto (abbreviated)

- Simple, sophisticated and straightforward.
- Targeted at editors and {front, backend} developers.
- Always open source.
- Our code should be clean, well-organised and legible.
- Always promote and maintain a welcoming and inclusive community.

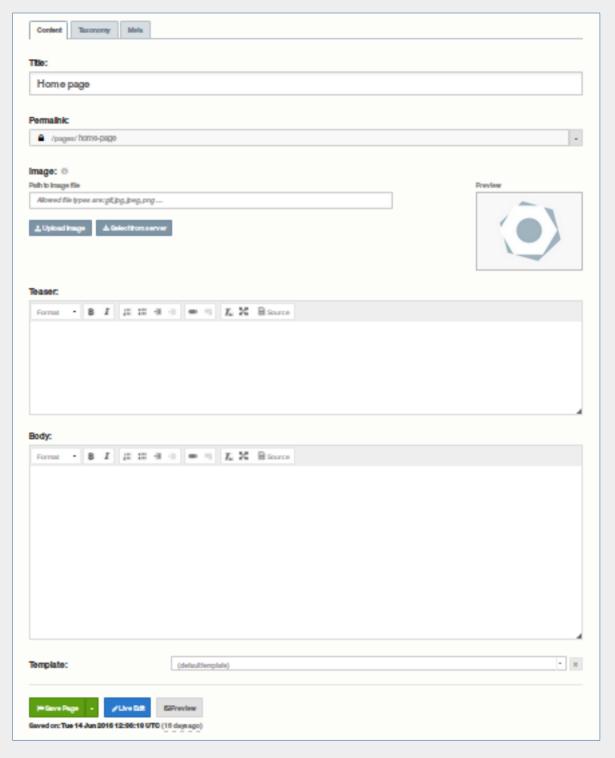
Configuration

Subject	Filename
Content Types	contenttypes.yml
Menus	menu.yml
Taxonomies	taxonomy.yml
Permissions	permissions.yml
Routing	routing.yml

Content Types

```
app/contig/contenttypes.ymu
pages:
    name: Pages
    singular name: Page
    fields:
        title:
            type: text
            class: large
            group: content
        slug:
            type: slug
            uses: title
        image:
            type: image
        teaser:
            type: html
            height: 150px
        body:
            type: html
            height: 300px
        template:
            type: templateselect
            filter: '*.twig'
    taxonomy: [ chapters ]
    recordsperpage: 100
```

app/config/contenttypes.yml



Backoffice form

Home page

```
Content {#1711 ▼
 +id: "1"
 +values: array:14 [v
   "datechanged" => "2016-06-14 12:36:13"
   "slug" => "home-page"
   "datecreated" => "2016-06-14 12:36:13"
   "datepublish" => "2016-06-14 12:36:06"
   "datedepublish" => null
   "ownerid" => "l"
"status" => "draft"
   "image" => array:l [▶]
   "title" => "Home page'
   "template" => ""
   "templatefields" ⇒ Content {#1710 ▶}
 +taxonomy: array:1 [▶]
 +relation: []
 +contenttype: array:17 [▶]
 +user: array:18 [▶]
 +sortorder: null
 +config: null
 +group: array:4 [▶]
 #app: Application {#24 ▶}
 #lastWeight: 0
 #isRootType: true
```

Edit - Written by Admin on Tuesday June 14, 2016

Alas, no about!

There currently is no Block with 'about-us' as its slug. If you create one, it will be shown here. Go to 'Configuration' > 'Check Database' and select 'Add sample Records' to automatically generate this Block.

Recent Pages

No recent Page.

Pages overview »

Recent Entries

Hello

Entries overview »

Recent Showcases

- Quam ob rem tandem, Inquit, non satisfacit?
- Erit enim mecum, si tecum erit
- Ougerimus enim finem honorum

Frontoffice Twig dump() of content on http://localhost:8000/pages/home-page

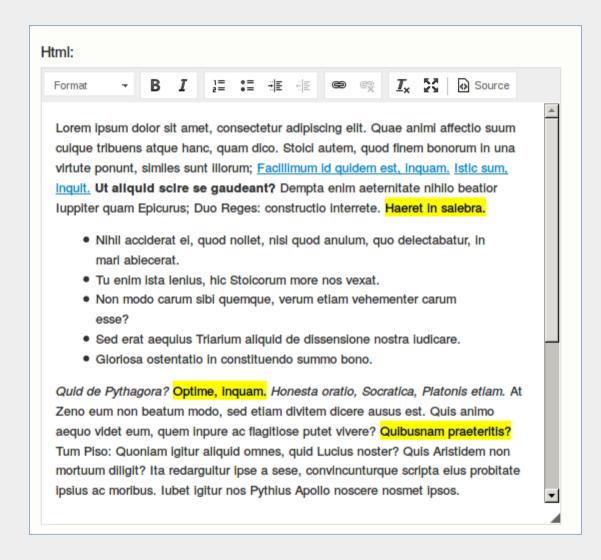
records implement array access

```
3 {{ record.title }}
2 {{ record.image|showimage }}
1
```

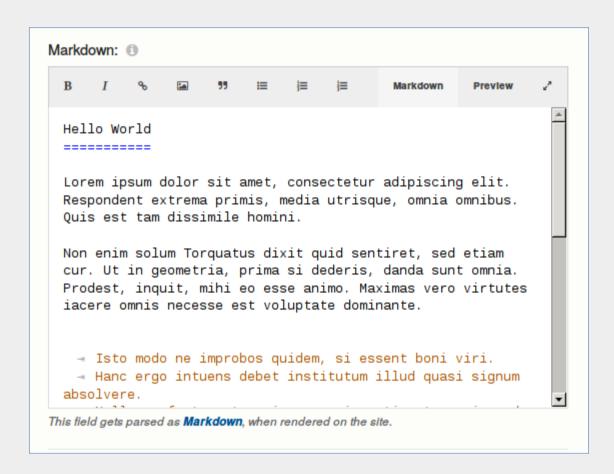
Field Types

- Text
- Image / Image list
- Repeater fields
- Markdown
- HTML
- Geolocation
- Video (Youtube)
- etc...

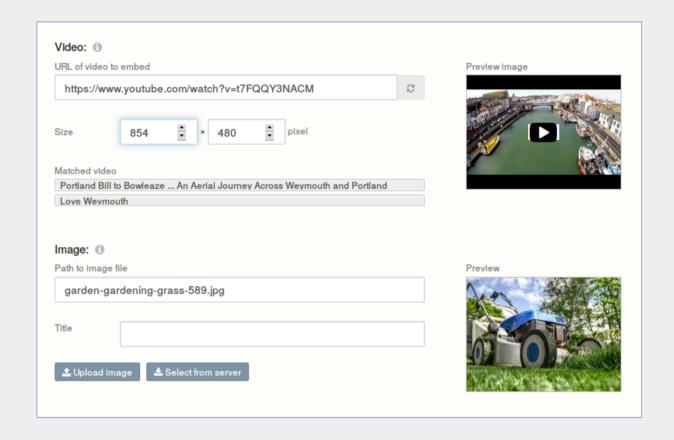
HTML



Markdown



Image, Video



Configuration

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Menu

```
main:
    - label: Home
      title: This is the first menu item.
      path: homepage
      class: first
    - label: Second item
      path: entry/l
      submenu:
          - label: Sub 1
            path: entry/2
          - label: Sub 2
            class: menu-item-class
            path: entry/3
          - label: Sub 3
            path: entry/4
          - label: Sub 4
            class: sub-class
            path: page/3
    - label: All pages
      path: pages/
    - label: The Bolt site
      link: http://bolt.cm
      class: last
```

Menu

```
11
10 {# render default menu #}
9 {{ menu() }}
8
7 {# render foobar menu #}
6 {{ menu('foobar') }}
5
4 {# render menu using a specific template #}
3 {{ menu('foobar', 'barfoo.twig') }}
```

Menu

- Not dynamic
- Very fast

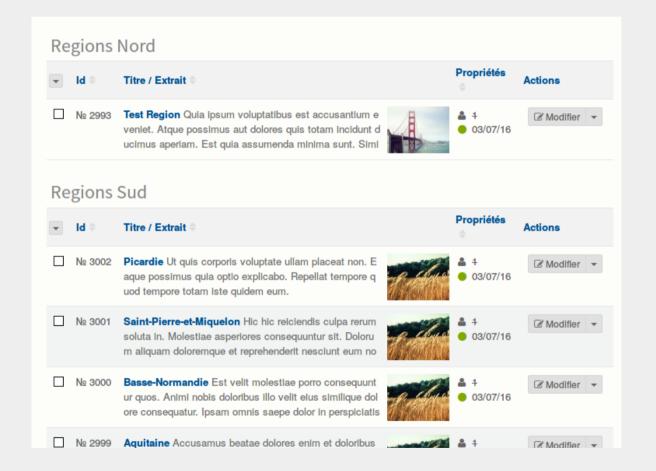
Configuration

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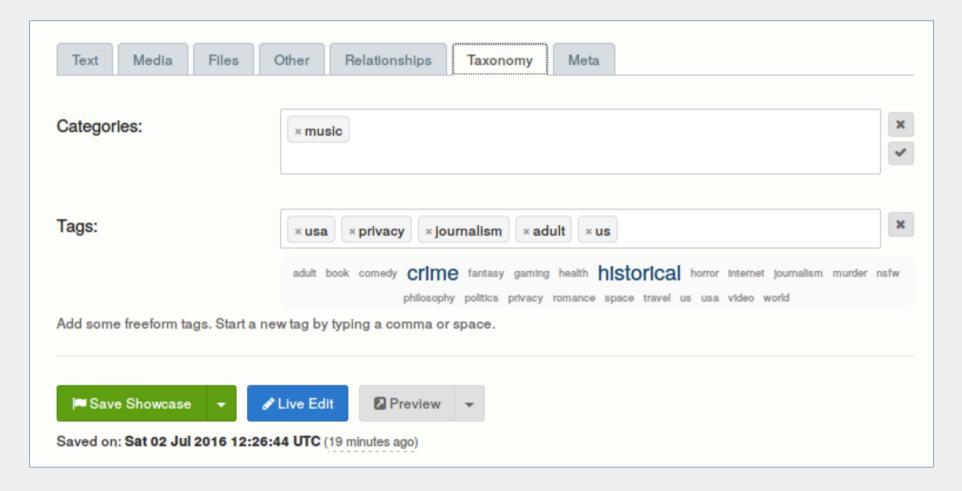
```
3 tags:
       slug: tags
       singular slug: tag
       behaves like: tags
       postfix: "Add some freeform tags. Start a new tag by typing a comma or space."
       allow spaces: false
       #listing template: tag-listing.twig #custom template
10
11 chapters:
       slug: chapters
12
       singular_slug: chapter
13
       behaves like: grouping
14
       options: { main: "The main chapter", meta: "Meta Chapter", other: "The other stuff" }
15
16
       has sortorder: true
17
18 categories:
19
      name: Categories
       slug: categories
20
       singular name: Category
21
       singular_slug: category
22
       behaves like: categories
23
      multiple: true
24
       options: [ news, events, movies, music, books, life, love, fun ]
26
      # autocomplete: false
       # height: 10em
```

```
7 # app/config/contenttypes.yml
6 pages:
5 name: Pages
4 # ...
3 fields:
2 # ...
1 taxonomy: [ chapters ]
```

taxonomies can be applied via. the content type



grouping taxonomy



tags and categories

Configuration

Subject	Filename
Content Types	contenttypes.yml
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Permissions

```
roles:
    editor:
        description: This user can edit some content.
        label: Editor
        description: User-level administrator.
        label: Administrator
roles-hierarchy:
   manipulate:
        admin: []
        developer: [ admin ]
        chief-editor: [ admin, developer ]
global:
   about: [ everyone ] # view the 'About Bolt' page
   clearcache: [ˈadmin, developer ]
contenttype-all:
   edit: [ developer, admin, chief-editor ] create: [ developer, admin, chief-editor ]
contenttype-default:
   edit: [ editor ]
   create: [ editor ]
contenttypes:
    showcases:
        publish: [ admin, chief-editor ]
        depublish: [ admin, chief-editor ]
```

Permissions

No per-object permissions

Configuration

Subject	Filename
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Routing

```
2 actualites:
       path: /actualites
      defaults:
           _controller: acme.foobar.controller.frontend:listByMonth
           _template: foobar/frontend/listing.twig
          contenttype: actualites
           datefield: datepublish
 8
10 actualites for month:
       path: /actualites/{year}/{month}
      defaults:
12
          controller: acme.foobar.controller.frontend:listByMonth
13
          template: foobar/frontend/listing.twig
14
           contenttype: actualites
15
          datefield: datepublish
16
17
18 region group:
      path: /regions/{group}
19
20
      defaults:
          controller: acme.foobar.controller.region:index
21
22
23 regions:
      path: /regions
24
      defaults:
25
           controller: acme.foobar.controller.region:listing
26
27
          template: foobar/regions/regions.twig
28
           contenttype: regions
```

Templates / Themes

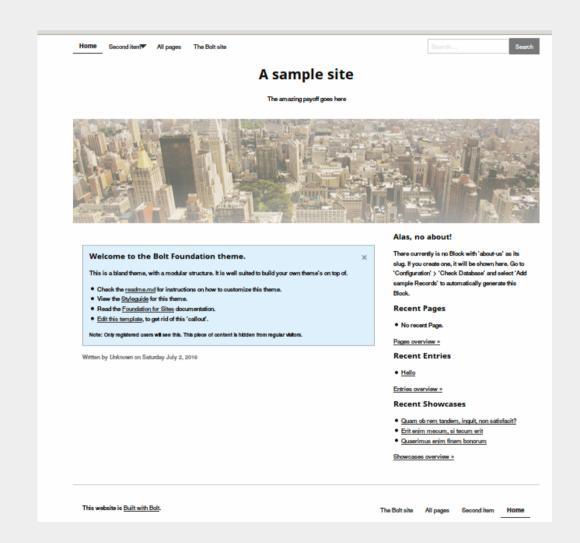
Templates / Themes

```
Press ? for help
. (up a dir)
/home/daniel/www/dantleech/boltdtl/
 app/
 extensions/
 public/
 bolt-public/
 extensions/
 files/
 theme/
   base-2016/
     css/
     images/
     1s/
     partials/
     source/
       anotherextrafields.twig
       archive.html.twig
       CHANGELOG.md
       extrafields.twig
       index.twig
       listing.twig
       notfound.twig
       npm-debug.log
       page.twig
       readme.md
       record.twig
       search.twig
       styleguide.twig
       theme.yml
 thumbs/
   index.php
   prism.css
   prism.js
 vendor/
```

- Twig templating engine
- `theme.yml` config file.
- Templates fields.

Default Theme

- Foundation 6
- SCSS
- Gulp



Retrieving Content

In Twig templates

See https://docs.bolt.cm/3.0/templates/content-fetching

Retrieving Content

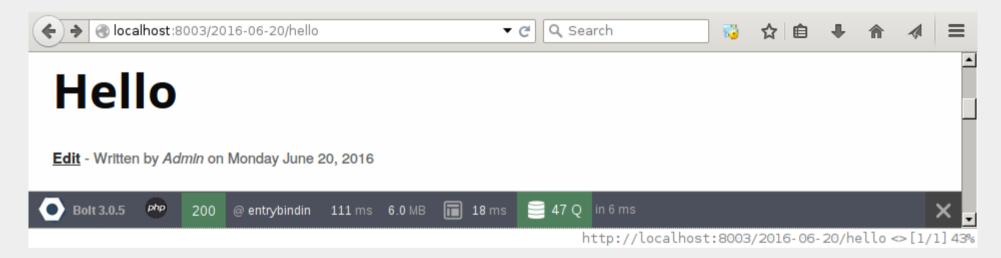
With PHP

Retrieving Content

With PHP

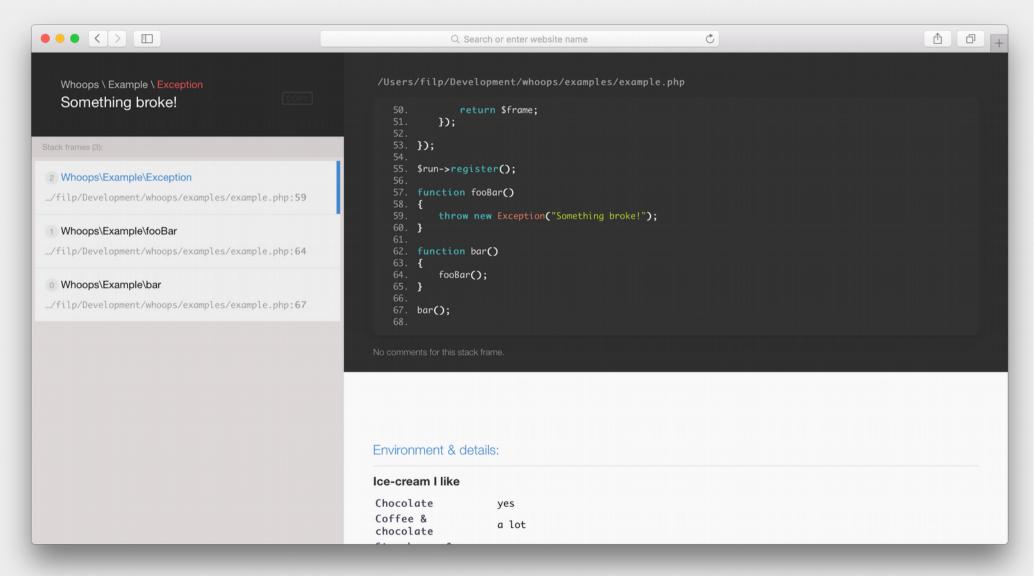
- EntityManager != Doctrine ORM
- EntityManager is "new"
- Content retrieved with EntityManager does not behave like "Legacy" content (e.g. record.link will not work).

Developer Tools



Debug Toolbar

Error Handling



Extending

- Install from the Web interface.
- Install from CLI.
- Local extensions.
- Bot extension repository.
- https://extensions.bolt.cm.
- Configurations added automatically.

Extending

```
7 class DtlBoltFixturesExtension extends AbstractExtension implements ServiceProviderInterface
 8 {
 9
       use NutTrait;
10
11
       public function registerNutCommands(Application $app)
12
13
           return [
14
               new LoadFixturesCommand($app['dtl.fixture.loader'], $app['storage'], $app['dtl.fixture.loader']
15
           1:
16
17
18
       public function register(Application $app)
19
20
           $app['dtl.fixture.loader'] = function ($app) {
21
               $loader = new Loader();
22
               $loader->addInstantiator(new Instantiator($app['storage']));
23
               $loader->addPopulator(new ReferencePopulator($app['storage']));
24
               $loader->addPopulator(new TaxonomyPopulator($app['storage']));
25
               return $loader:
26
           };
27
           $app['dtl.fixture.purger'] = function ($app) {
28
29
               return new Purger($app['storage']);
           };
30
31
32
33
34
       public function boot(Application $app)
35
36
37
38
       public function getServiceProviders()
39
40
           return [ $this ];
41
```

Example Extensions

- Bolt Forms: SF Forms, submission handling.
- Bolt Members: User registration, profiles.
- DTL Fixtures: Load, generate fixtures via. Alice.

Its not perfect.. yet!!

- · No Multilang support.
- Content types exposed by default.
- Hacky route generation workarounds.
- Container injection is favoured
- Hacky date handling.
- Experimental import / export functionality included but basically useless
- No system / user namespacing in database tables, value fields etc.
- Ignores errors by default, sometimes including Fatals (WSOD)
- Composer extension handling can be confusing
- Cannot use packagist deps in extension
- Raw DBAL query builder.
- Cannot currently override repositories for content.
- · No hierarchical content handling.
- Cannot use custom repositories effectively.
- Cannot query relations using the new EntityManager without raw DBAL

Its not perfect.. yet!!

- Lots of refactoring happened for v3.0.
- System has both legacy and "new" systems.
- Legacy system still used by core in some places.
- v4.0 should remove lots of legacy.

Issues I created

- github.com/bolt/bolt/issues/5469: Bug with repeating HTML field
- github.com/bolt/bolt/issues/5465: Datetime
- github.com/bolt/bolt/issues/5466: Bug with custom URL
- github.com/bolt/bolt/issues/5470: Video + Markdown + Repeater??
- github.com/bolt/bolt/issues/5490: Category form population
- github.com/bolt/bolt/issues/5494: Query builder
- github.com/bolt/bolt/issues/5504: Strict variables
- github.com/bolt/bolt/issues/5506: Custom repositories

Pull Requests I made

Pull Requests I made

Its not perfect

But very few things are.

Summary

- Alot of things work out-of-the-box
- Small sites may not even need and PHP.
- DX is generally very good, except when its bad.
- Great support and very active community.

Live Demo!

The End

- Talk to me on Twitter: @dantleech
- Talk to Bolt on Twitter: @BoltCM
- Talk to Bolt on Freenode: #boltcms
- Visit the Bolt website: https://bolt.cm
- Enjoy a drink!