The journey of a module from Drupal 7 to Drupal 8

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About Me

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We have an agenda



- The Module
- Tools and Resources
- Steps to Take

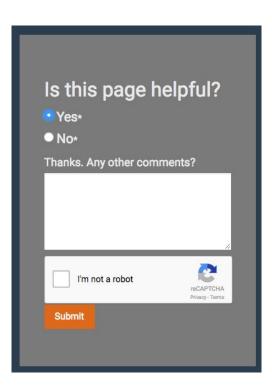


The Module

"Helpfulness"

(....just ignore the name!)

https://www.drupal.org/project/helpfulness





It's simple



https://flic.kr/p/nwFSD3

It does a lot of things

JavaScript

Form API

Database

Blocks

Configuration

Links and Menus

Permissions

Input validation

Reporting

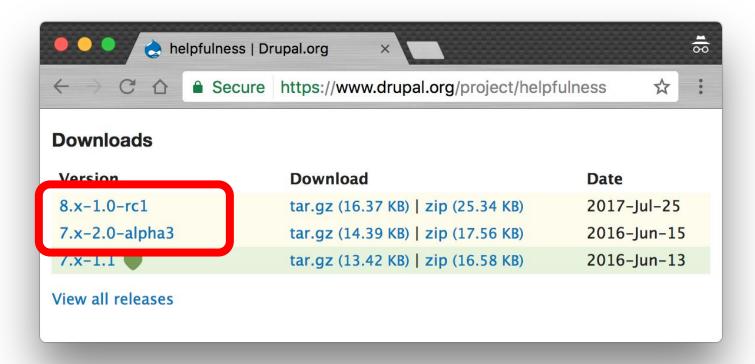
Variables

Spam control

Stylesheets

Tasks and Tabs

The sources we use:

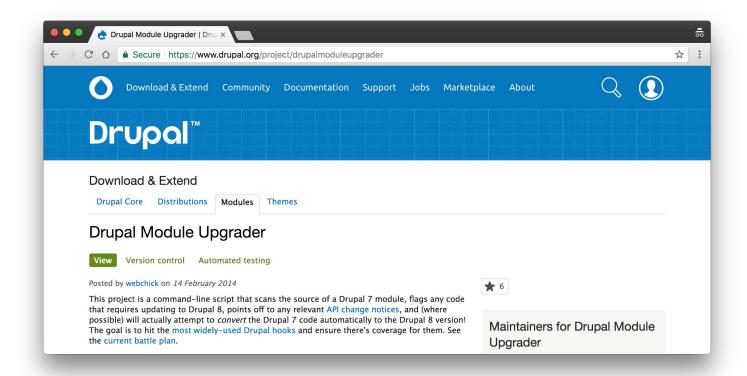




Demo

Tools & Resources

https://www.drupal.org/project/drupalmoduleupgrader





Install to a Drupal 8 site:

```
cd /My/Drupal8/root/
drush dl drupalmoduleupgrader
cd modules/drupalmoduleupgrader
composer install
drush en drupalmoduleupgrader
```

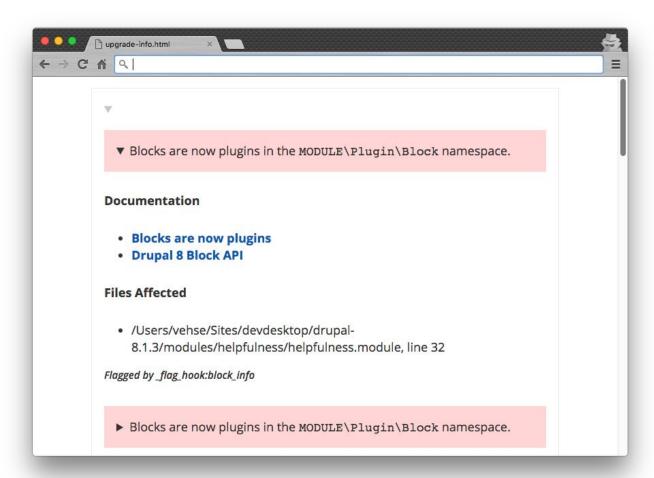


Create a report:

drush dmu-analyze MODULE_NAME

Will create a report "upgrade-info.html" in your module directory







Change records for Drupal core

https://www.drupal.org/list-changes/drupal

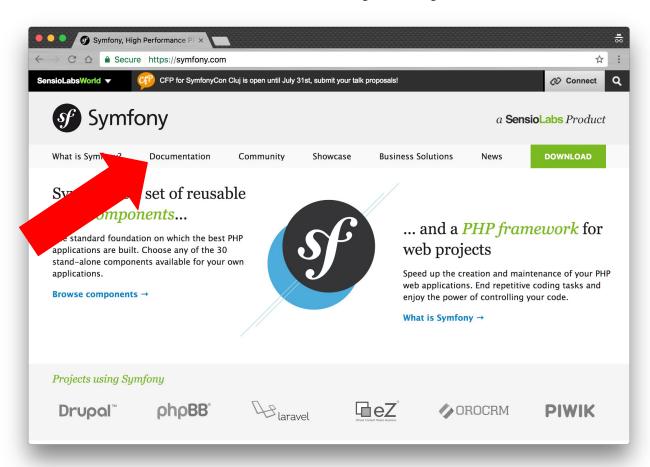


Change records for Drupal core

https://www.drupal.org/list-changes/drupal ?keywords_description=&to_branch=8.x



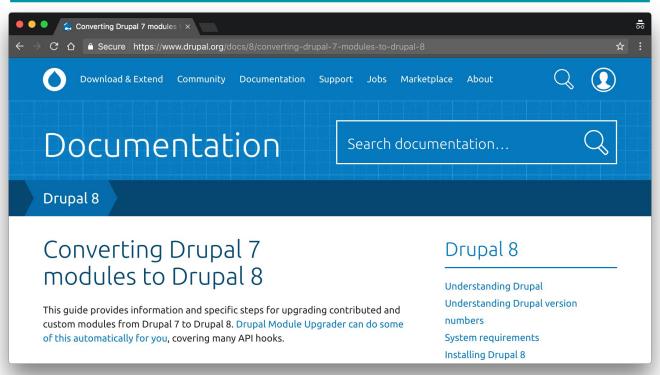
Learn some Symfony





RTFM

https://www.drupal.org/update/modules/7/8



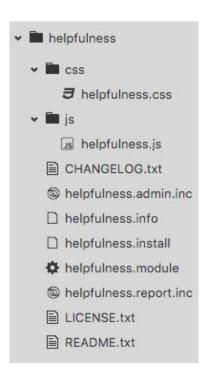


Try to convert the code:

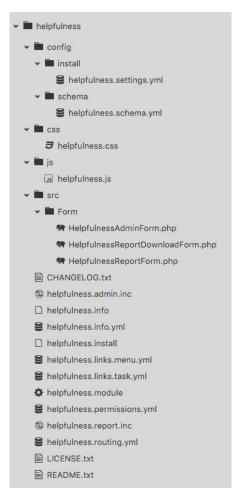
drush dmu-upgrade MODULE_NAME



Drupal 7:



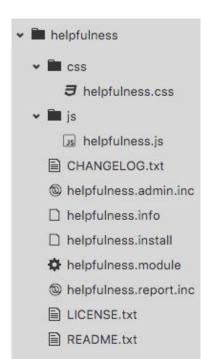
dmu-upgrade:



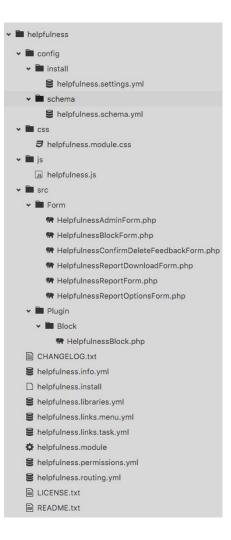




Drupal 7:



After cleanup:





The Steps To Take

Module information





Module information

Drupal 7:

```
// helpfulness.info
name = Helpfulness
description = Provides a block for the user to leave feedback
core = "7.x"
```

Module information

Drupal 8:

```
// helpfulness.info.yml
name: Helpfulness
description: 'Provides a block for the user to leave feedback'
core: 8.x
type: module
```

Menu and Routing





https://flic.kr/p/6EUrXT

Menu and Routing

Drupal 7:

```
// helpfulness.module
function helpfulness menu() {
  $items['admin/reports/helpfulness'] = array(
    'title' => 'Helpfulness Feedback messages',
    'description' => 'View messages from the helpfulness module.',
    'type' => MENU NORMAL ITEM,
    'page callback' => 'drupal get form',
    'page arguments' => array('helpfulness report form'),
    'access arguments' => array('view helpfulness messages'),
    'file' => 'helpfulness.report.inc',
```

Menu and Routing

Drupal 8:

```
# helpfulness.routing.yml
helpfulness.report form:
  path: /admin/reports/helpfulness
 defaults:
   title: 'Helpfulness Feedback messages'
    form: \Drupal\helpfulness\Form\HelpfulnessReportForm
  requirements:
    permission: 'view helpfulness messages'
# helpfulness.links.menu.yml
helpfulness.report form:
  route name: helpfulness.report form
  title: 'Helpfulness Feedback messages'
  description: 'View messages from the helpfulness module.'
  parent: system.admin reports
```

Permissions





Permissions

Drupal 7:

```
// helpfulness.module
function helpfulness permission() {
 return array(
    'view helpfulness messages' => array(
      'title' => t('View feedback messages'),
      'description' => t('View and delete helpfulness messages.'),
function helpfulness menu() {
 $items['admin/reports/helpfulness'] = array(
    'title' => 'Helpfulness Feedback messages',
    'access arguments' => array('view helpfulness messages'),
```

Permissions

Drupal 8:

```
// helpfulness.permissions.yml
'view helpfulness messages':
 title: 'Access helpfulness feedback report'
 description: 'View and delete helpfulness messages.'
 helpfulness.routing.yml
helpfulness.report form:
 path: /admin/reports/helpfulness
 defaults:
    title: 'Helpfulness Feedback messages'
     form: \Drupal\helpfulness\Form\HelpfulnessReportForm
  requirements:
   permission: 'view helpfulness messages'
```

Forms

	Department of the Treasury—Internal Re		15 OMB No. 154	15-0074 RS Use On	ly—Do not write or staple in this space.
For the year Jan. 1–Dec. 31, 2015, or other tax year beginning , 2015, ending , 20					See separate instructions.
Your first name and initial La		Last name			Your social security number
If a joint return, spouse's first name and initial Last name				Spouse's social security number	
Home address (number and street). If you have a P.O. box, see instructions. Apt. no.					Make sure the SSN(s) above and on line 6c are correct.
City, town or post office, state, and ZIP code. If you have a foreign address, also complete spaces below (see instructions). Presidential Election Campai Check here if you, or your spouse if fill					
Foreign country name		Foreign province/sta	Foreign province/state/county Foreign province/state/county		jointly, want \$3 to go to this fund. Checking a box below will not change your tax or refund. You Spouse
Filing Status	1 Single 4 Head of household (with qualifying person). (See instructions.) If				
					but not your dependent, enter this
Check only one	3				
box.					ependent child



Forms

Drupal 7:

```
// helpfulness.module
function helpfulness menu() {
 $items['admin/reports/helpfulness'] = array(
   'page arguments' => array('helpfulness report form'),
   'file' => 'helpfulness.report.inc',
 );
 helpfulness.report.inc
function helpfulness report form($form, &$form state) {
    /* ...build the form */
    return $form;
```

Forms

Drupal 8:

```
// helpfulness.routing.yml
helpfulness.report form:
  path: /admin/reports/helpfulness
  defaults:
   title: 'Helpfulness Feedback messages'
    form: \Drupal\helpfulness\Form\HelpfulnessReportForm
// /src/Form/HelpfulnessReportForm.php
namespace Drupal\helpfulness\Form;
class HelpfulnessReportForm extends FormBase {
    public function buildForm(array $form, FormStateInterface $form state) {
    /* ...build the form... */
    return $form;
```

Database Table





https://flic.kr/p/puR46m

Database Table

Drupal 7:

```
// helpfulness.install
function helpfulness schema() {
 $schema['helpfulness'] = array(
    'description' => 'Stores all helpfulness messages.',
    'fields' => array(
        //* all kinds of other fields... */
      'message' => array(
       'description' => 'The feedback message.',
       'type' => 'text',
       'null' => TRUE,
    //* other stuff, like primary keys... */
 return $schema;
```

Database Table

Drupal 8 - it's all the same:

```
// helpfulness.install
function helpfulness schema() {
 $schema['helpfulness'] = array(
    'description' => 'Stores all helpfulness messages.',
    'fields' => array(
        //* all kinds of other fields... */
      'message' => array(
        'description' => 'The feedback message.',
       'type' => 'text',
       'null' => TRUE,
    //* other stuff, like primary keys... */
 return $schema;
```

Thank you. Questions?

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