



WEBFORM FOR EVERYONE



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HELLO!

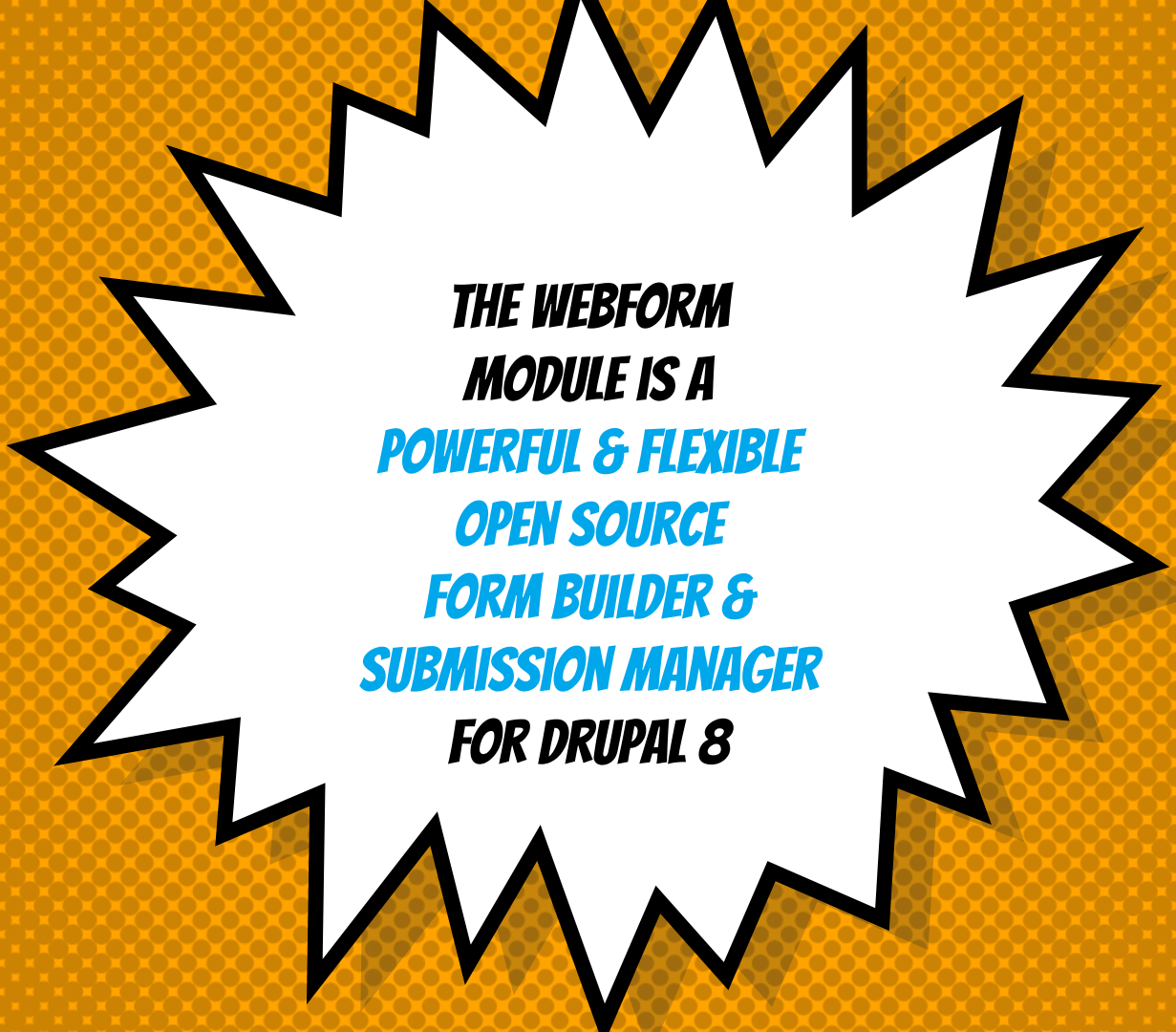


Hi, my name is Jacob Rockowitz.

- × I am known as jrockowitz on the web.
- × I am a Drupal developer and software architect.
- × I built and maintain the Webform module for Drupal 8.

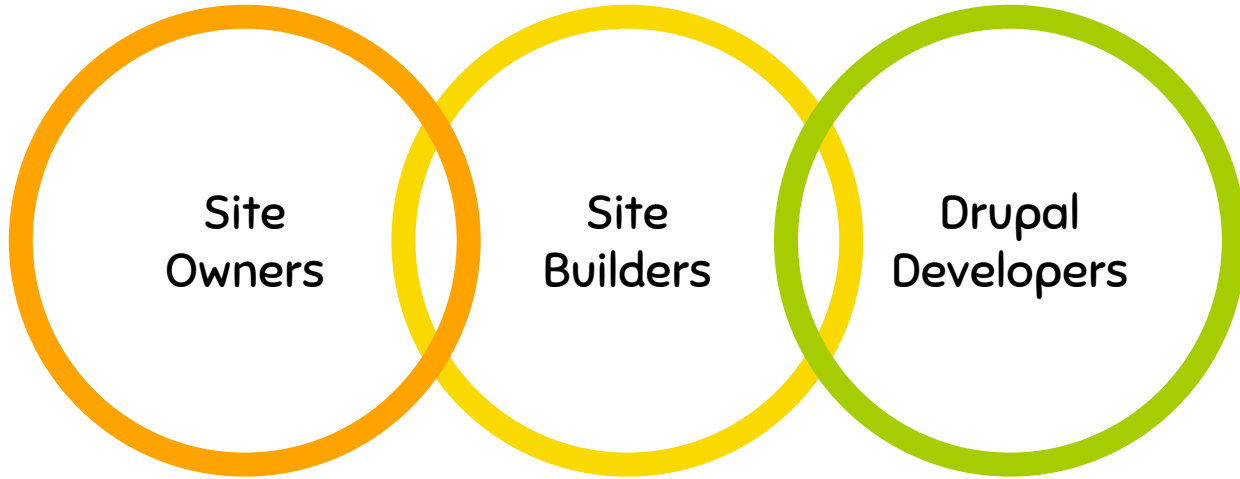


***WHAT IS THE
WEBFORM MODULE?***



**THE WEBFORM
MODULE IS A
POWERFUL & FLEXIBLE
OPEN SOURCE
FORM BUILDER &
SUBMISSION MANAGER
FOR DRUPAL 8**

WEBFORM FOR EVERYONE



WEBFORM FOR EVERYONE

- × **Site Owners**

Why should you use the Webform module?

- × **Site Builders**

How do you build awesome webforms?

- × **Drupal Developers**

What can you do with the Webform module?

MY GOAL IS TO

ANSWER YOUR

QUESTIONS...



...AND SHOW YOU

MY FAVORITE

WEBFORM THINGS





***WEBFORM FOR
SITE OWNERS***



***WHY SHOULD YOU
USE THE WEBFORM
MODULE?***

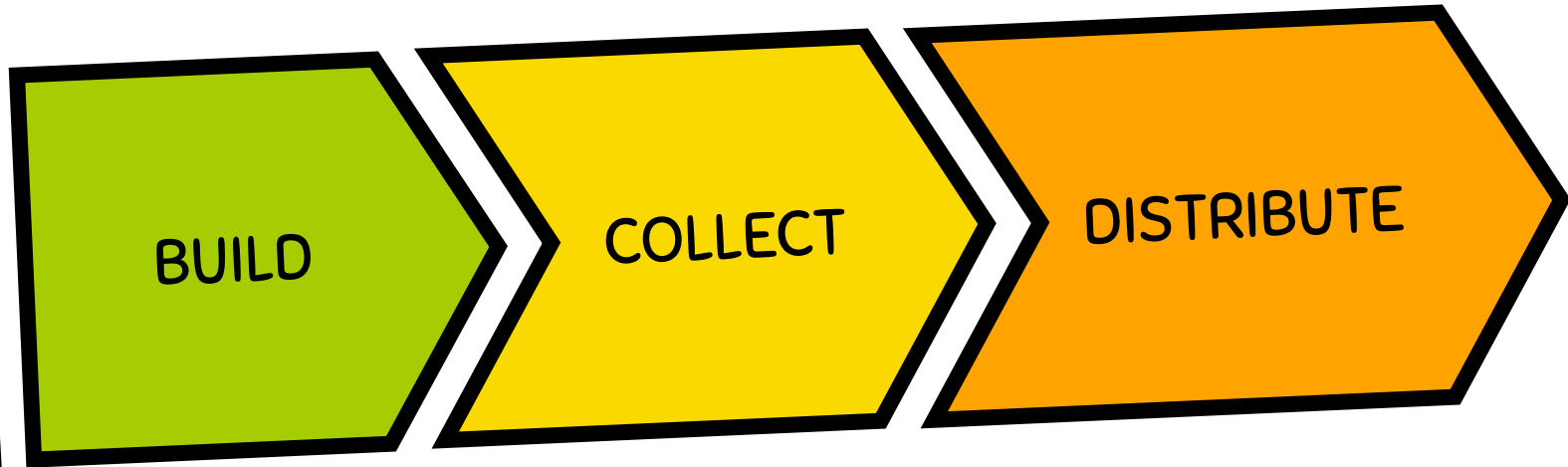


**WEBFORM MODULE
ALLOWS YOU TO
BUILD ANY TYPE OF FORM
OR APPLICATION**

THE USE CASE...

- × BUILD a form or copy a template
- × PUBLISH the form as a page, node, or block
- × COLLECT form submissions
- × SEND confirmations and notifications
- × REVIEW results online
- × DISTRIBUTE results as CSV or remote post

ONCE AGAIN, THE USE CASE...

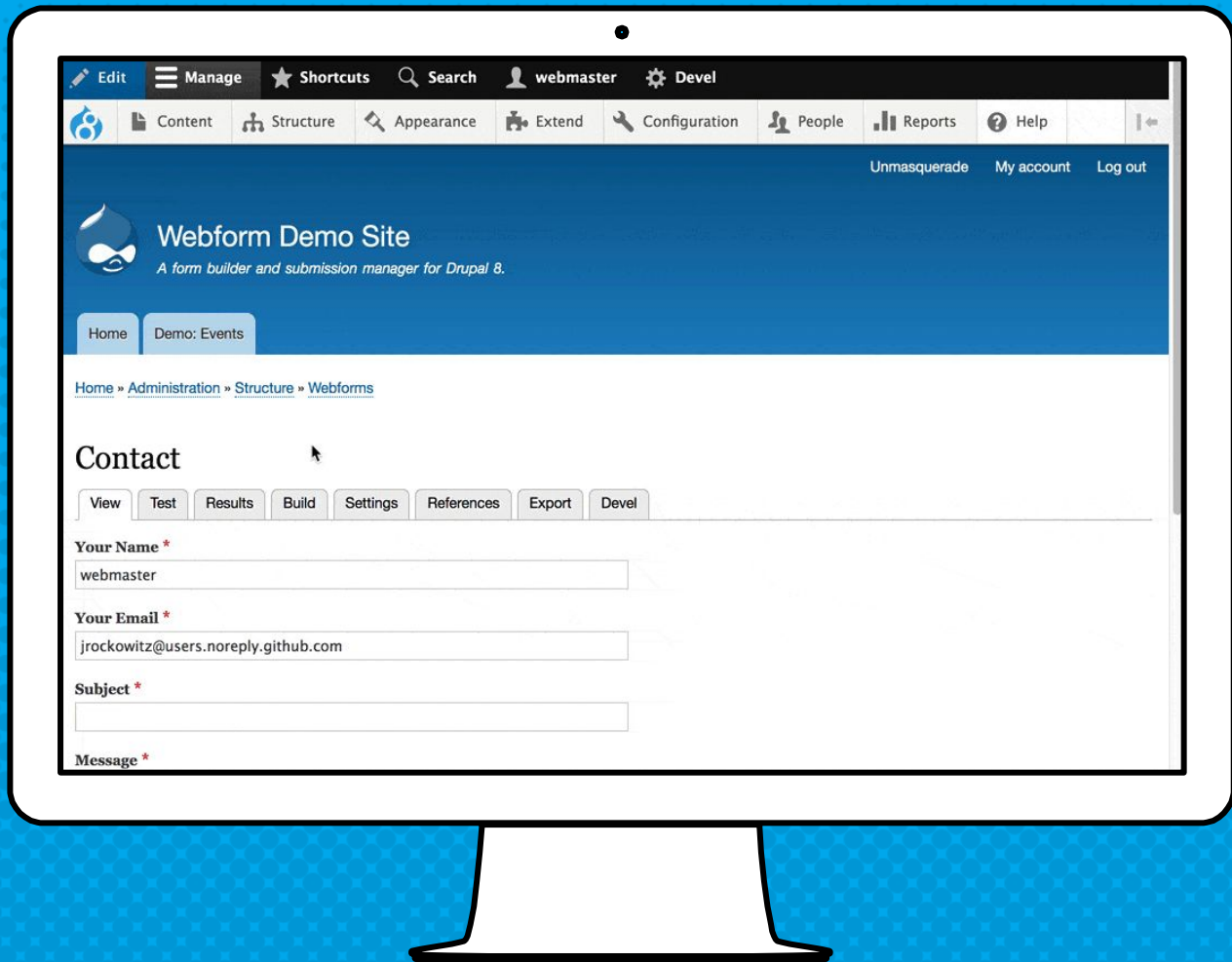




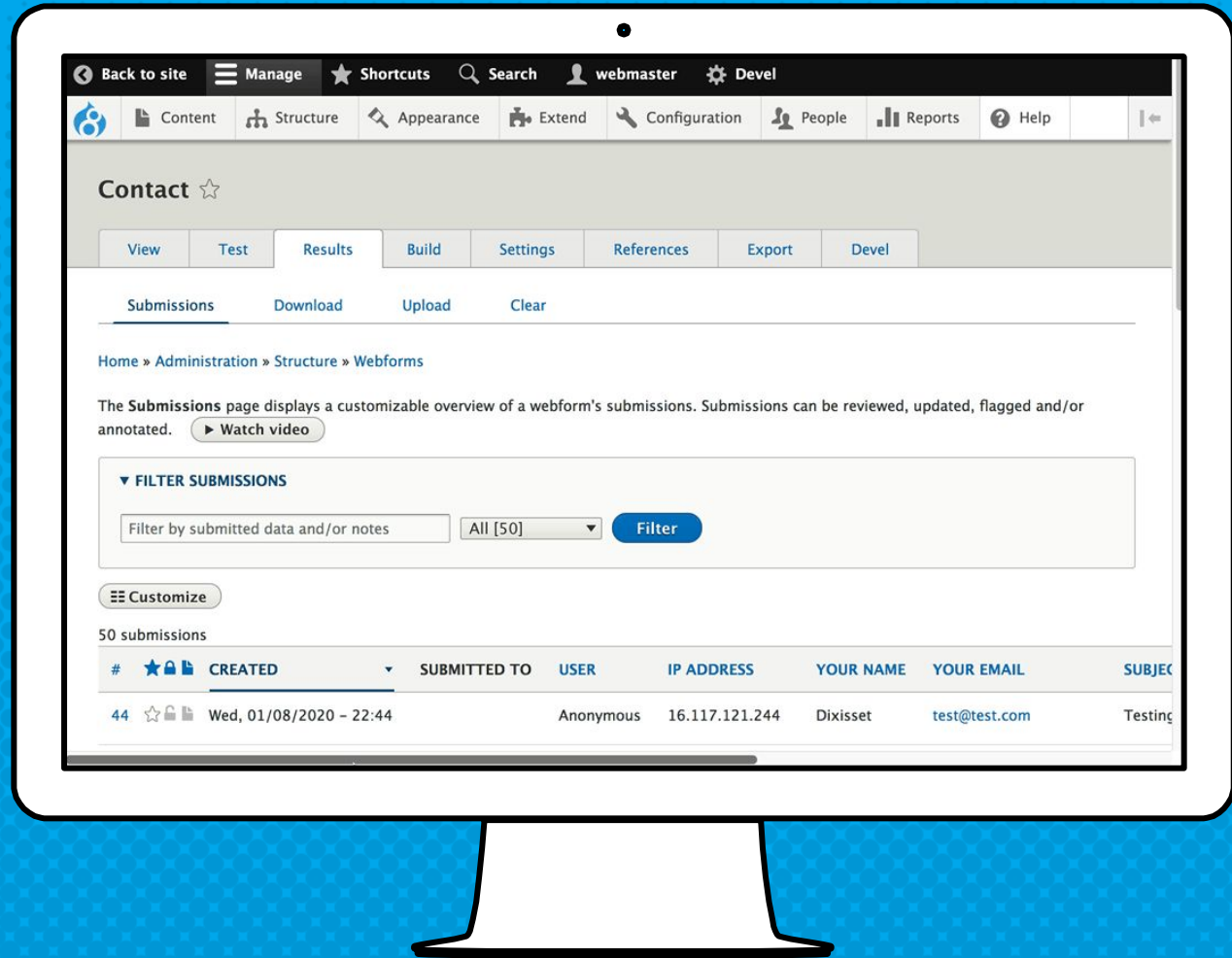
<demo>

Webform Basics

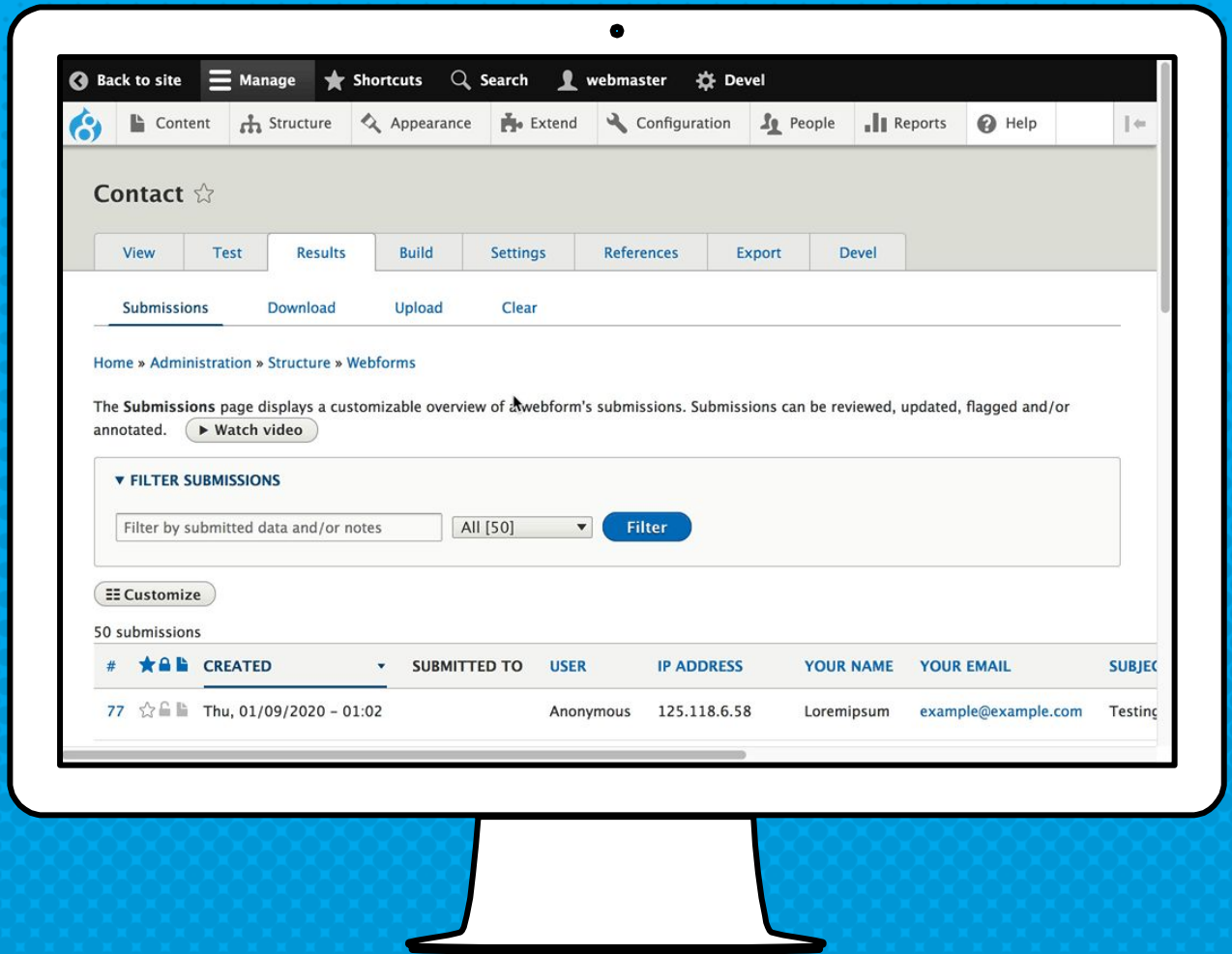
**THE
YAML SOURCE
MODE
IS AWESOME!!!**

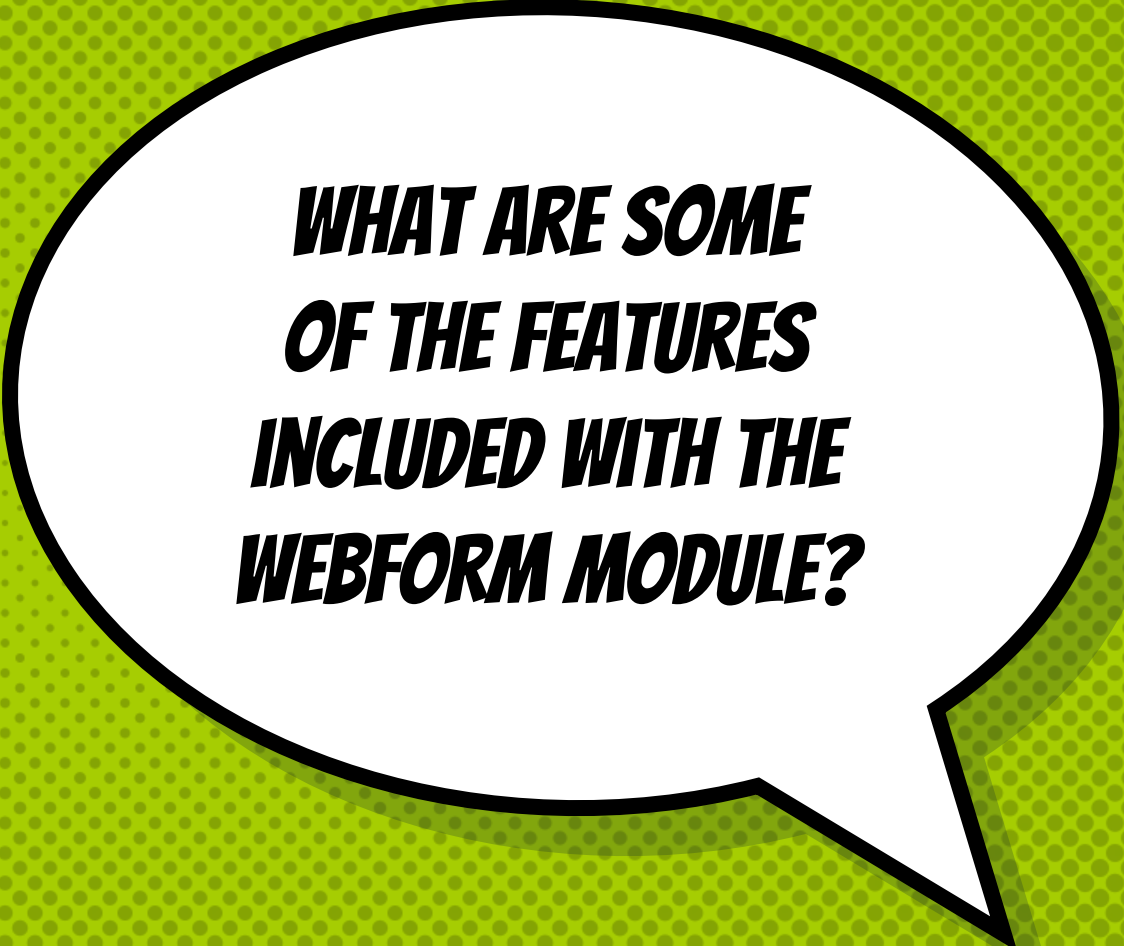


**CUSTOMIZABLE
RESULTS
TABLE
WITH OR
WITHOUT
VIEWS**

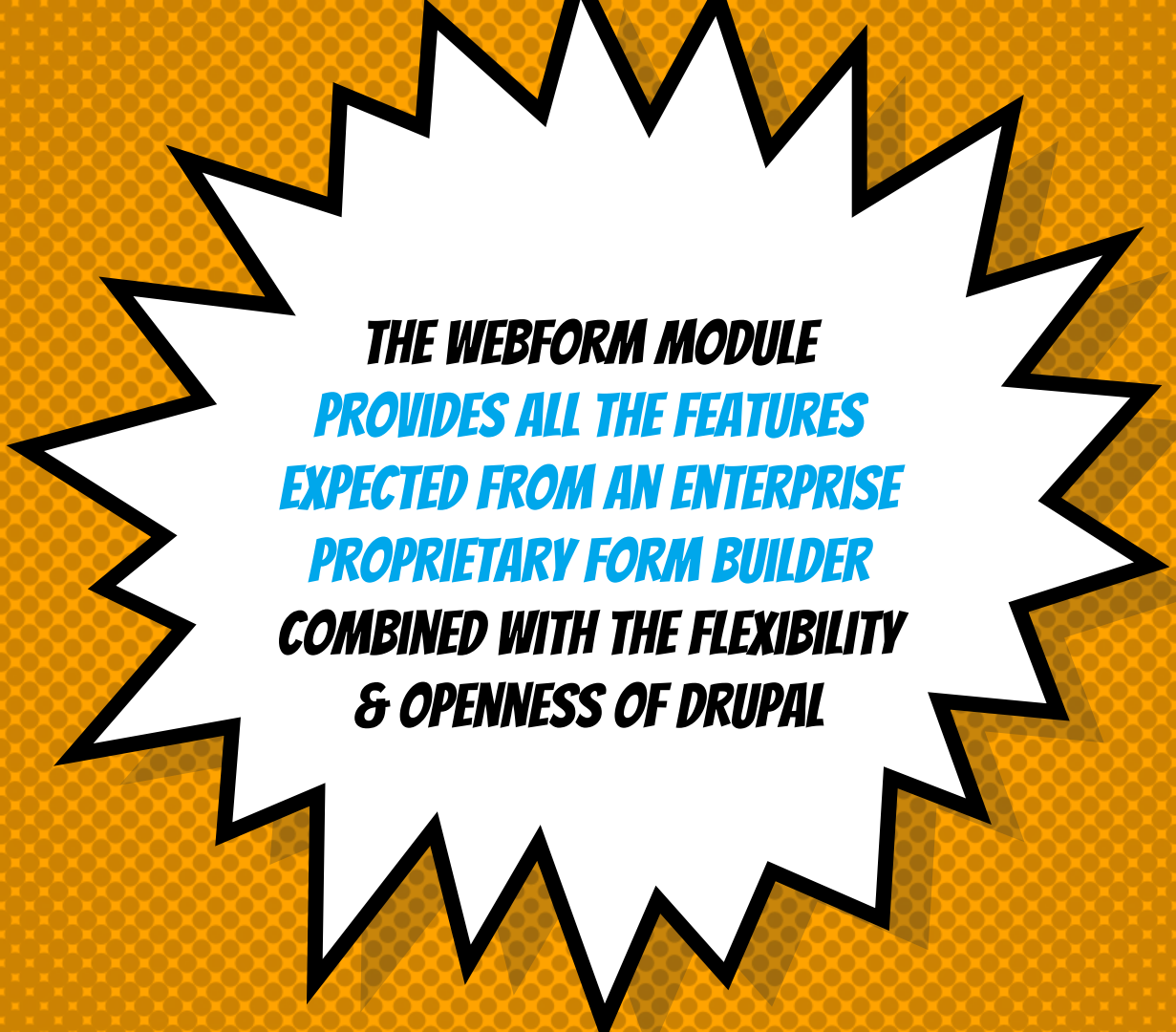


GENERATE PDFS FROM SUBMISSIONS





***WHAT ARE SOME
OF THE FEATURES
INCLUDED WITH THE
WEBFORM MODULE?***

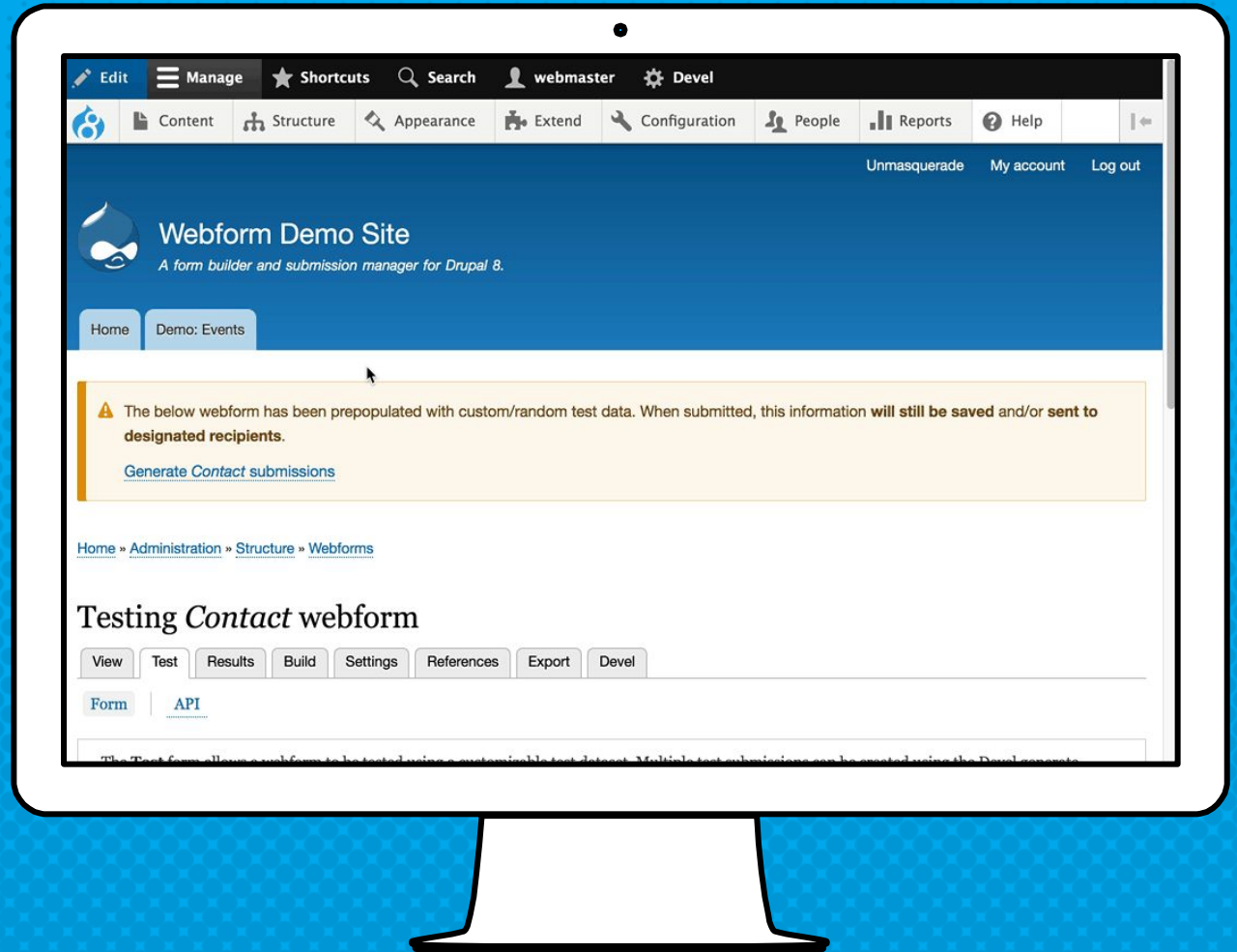


***THE WEBFORM MODULE
PROVIDES ALL THE FEATURES
EXPECTED FROM AN ENTERPRISE
PROPRIETARY FORM BUILDER
COMBINED WITH THE FLEXIBILITY
& OPENNESS OF DRUPAL***

WEBFORM FORM FEATURES

- × Drag-n-drop form builder
- × Multi-column layout
- × Modal dialogs
- × Conditional logic
- × Open/close scheduling
- × Prepopulate
- × Email handling
- × Remote post
- × Submission limits
- × Submission preview
- × Autofill
- × Save draft
- × Auto purge
- × Access controls
- × Confirmation message
- × Confirmation redirects

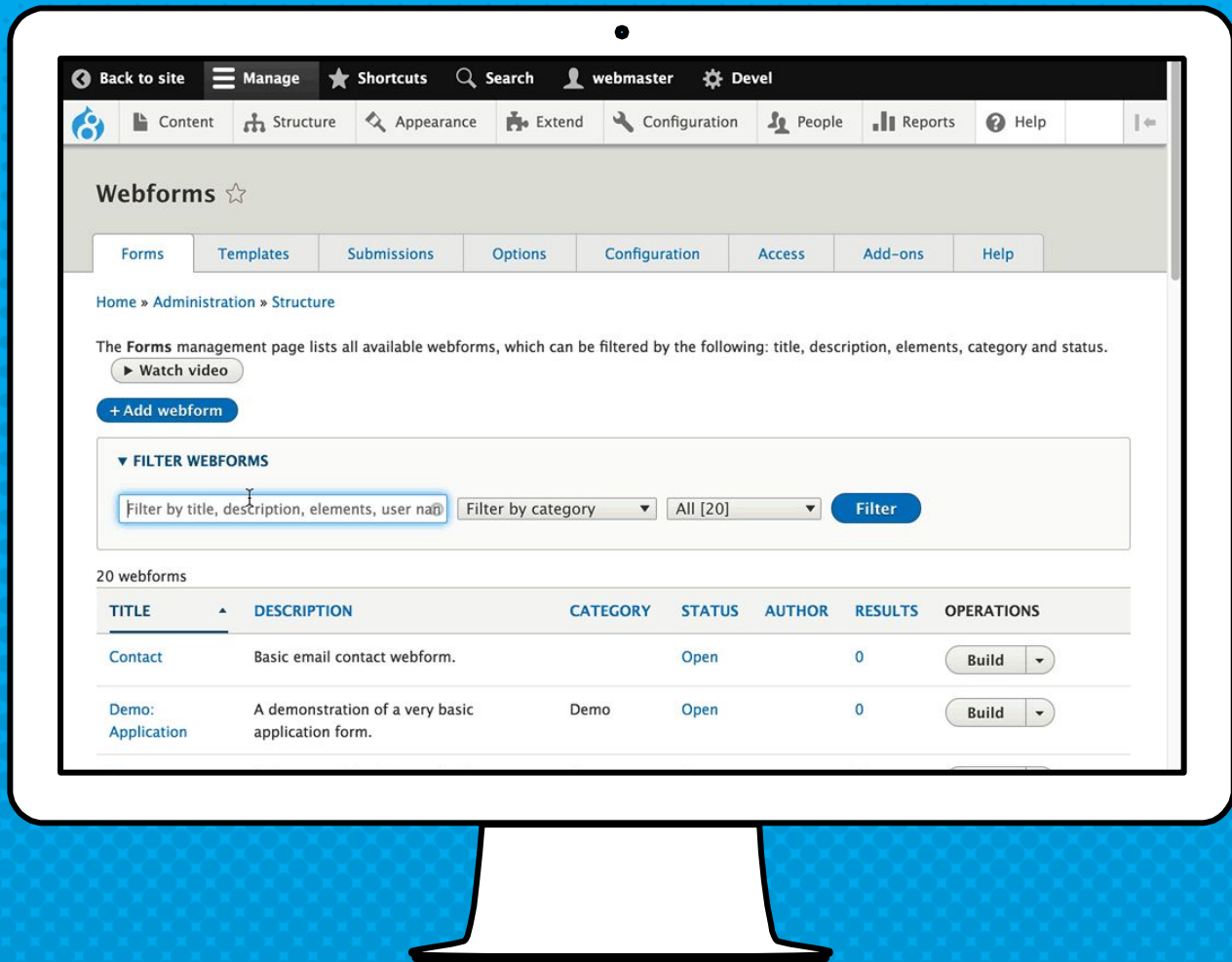
**EVERY POSSIBLE
CONFIRMATION
MESSAGE
& PAGE
IS SUPPORTED**



WEBFORM ELEMENT FEATURES

- × Standard HTML inputs
 - × Advanced HTML inputs
 - × File uploads
 - × Signatures
 - × Buttons
 - × Rating
 - × Image selection
 - × Addresses
 - × Entity references
-
- × Select menu enhancement
 - × Computed values
 - × Tooltips
 - × Slideouts
 - × Input masks
 - × Word/character counter
 - × Regex validation
 - × Access controls
 - × Unique values

THERE IS A STYLE-GUIDE WHICH SHOWS EVERY AVAILABLE WEBFORM ELEMENT



ELEMENTS

SUPPORT

TITLES,

PLACEHOLDERS,

DESCRIPTIONS,

HELP,

& MORE

This is a title ?

This is a placeholder

This is a description

▶ More



***HOW DO YOU GET
SUPPORT FOR THE
WEBFORM MODULE?***

GETTING HELP

- × Documentation, Cookbook, & Screencasts

<https://www.drupal.org/docs/8/modules/webform>

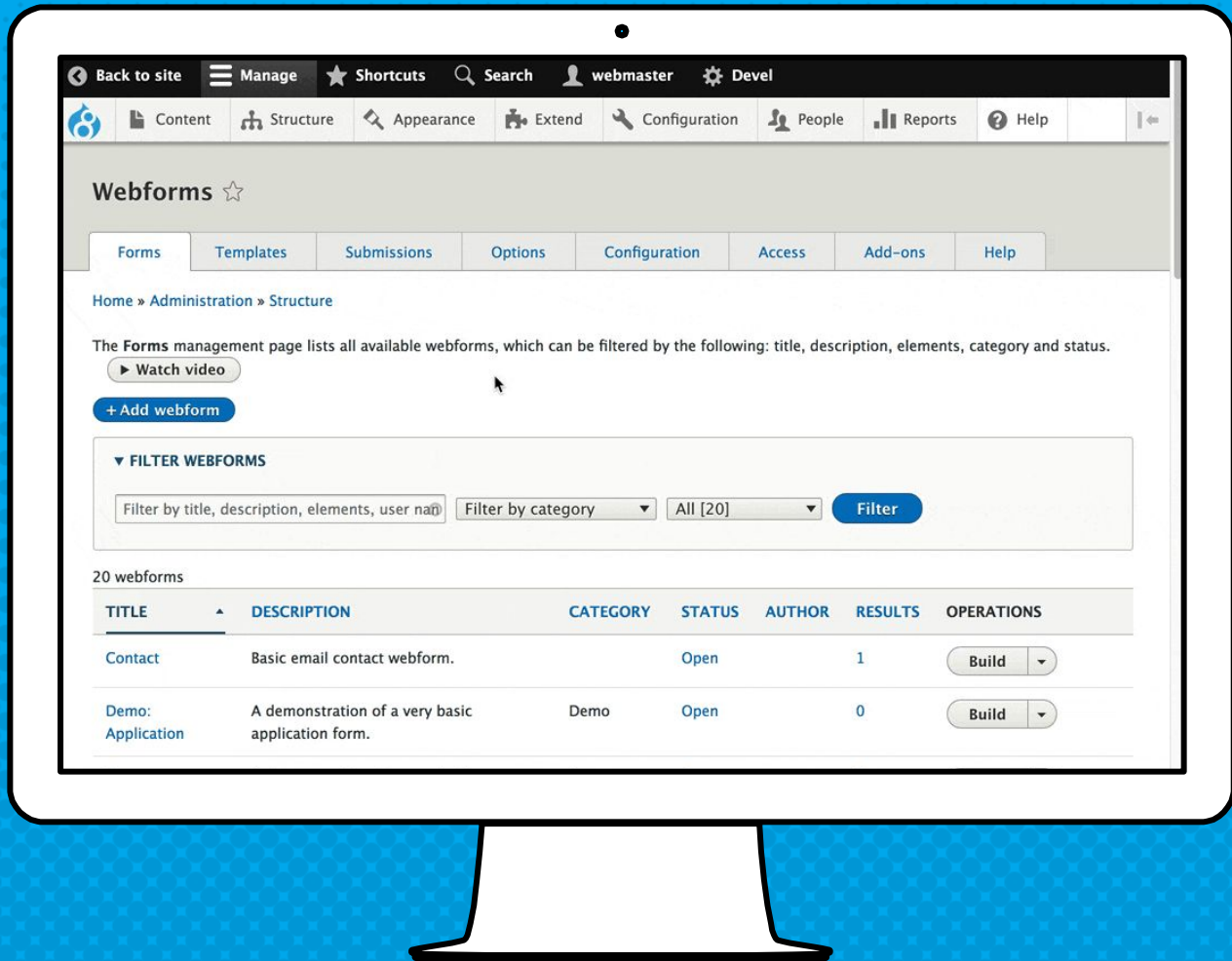
- × Drupal Answers

<http://drupal.stackexchange.com>

- × Webform Issue Queue

<https://www.drupal.org/project/issues/webform?version=8.x>

THERE ARE VIDEOS ABOUT EVERY WEBFORM FEATURE



***INSPIRE YOU TO
BUILD AWESOME
WEBFORMS***





***WEBFORM FOR
SITE BUILDERS***



***HOW DO YOU
BUILD AWESOME
WEBFORMS?***

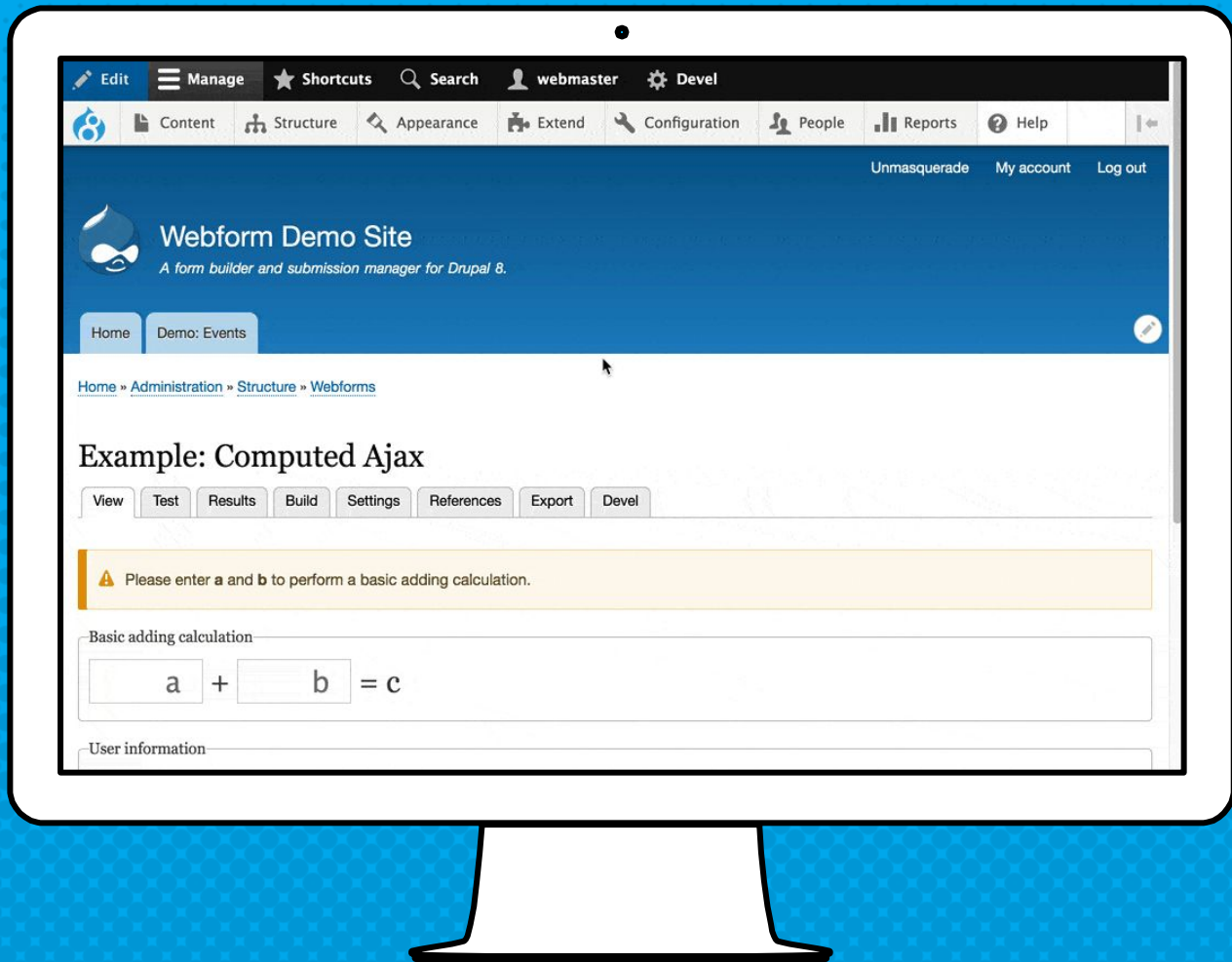


***LEARN FROM
EXAMPLES, TEMPLATES,
& DEMOS***

WEBFORM EXAMPLES MODULE

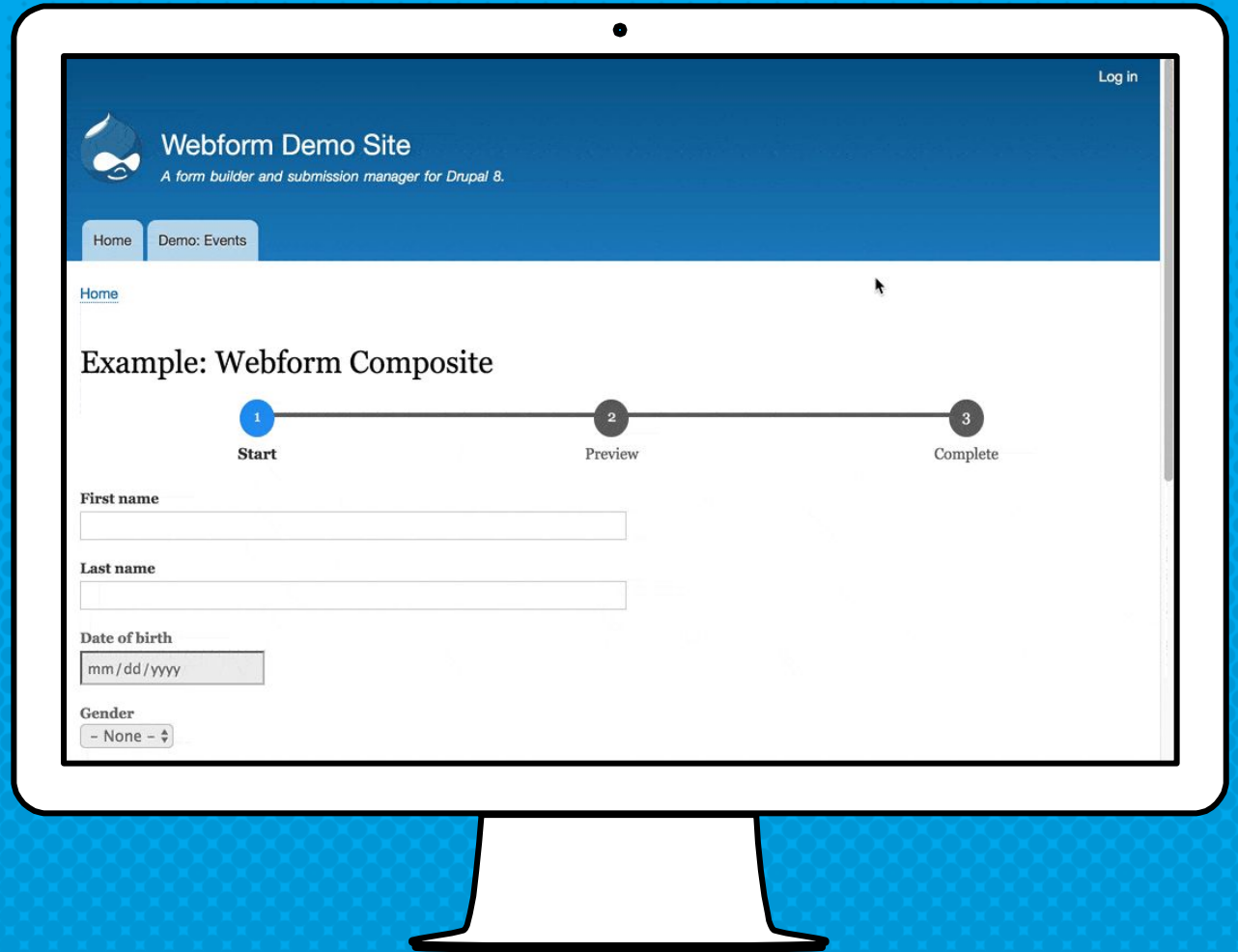
- × Style-guide
- × Multi-step wizard
- × Multi-column layout
- × Advanced elements
- × Computed elements
- × Composite elements

**COMPUTED
TWIG
ELEMENTS
ARE
AWESOME!!**

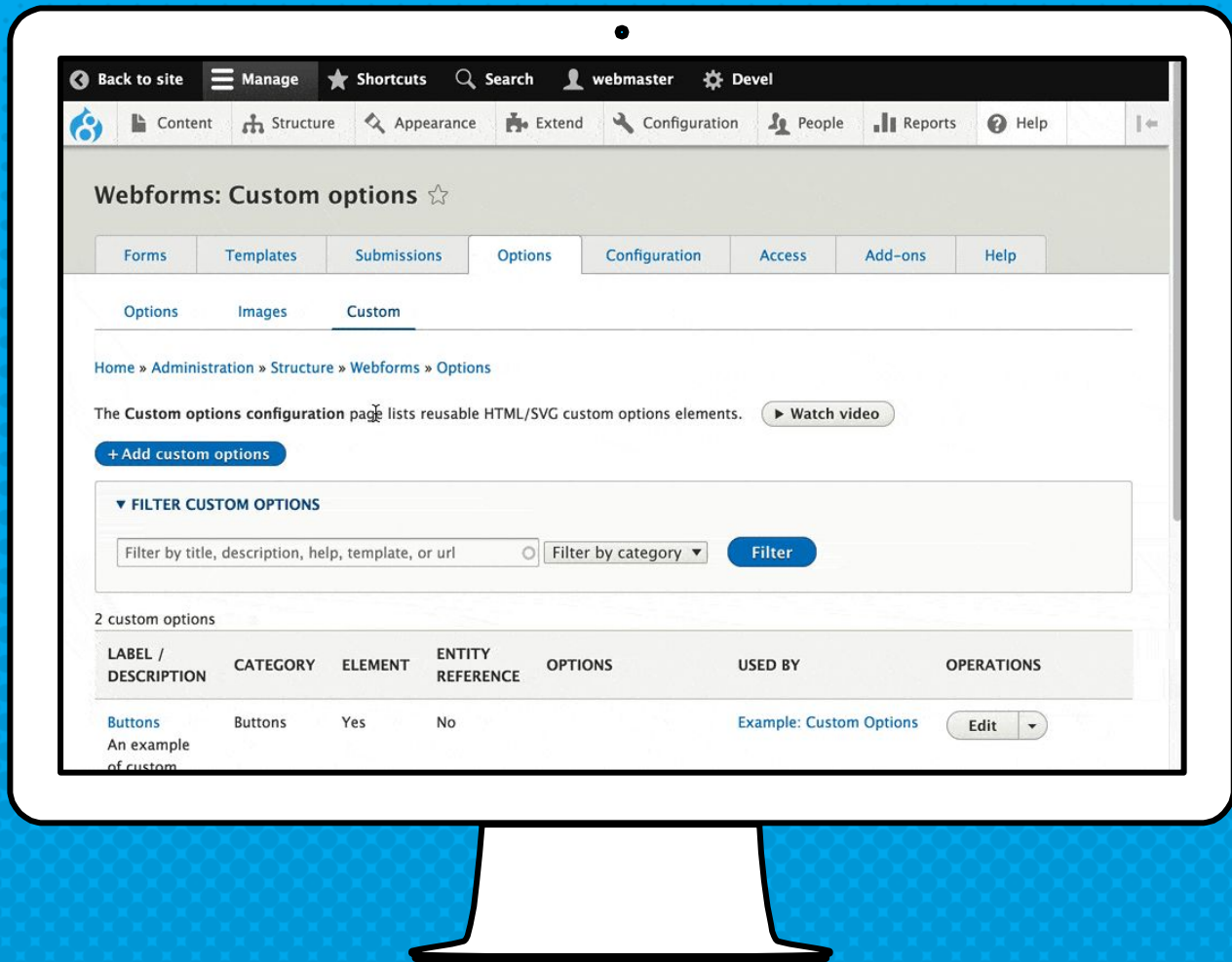


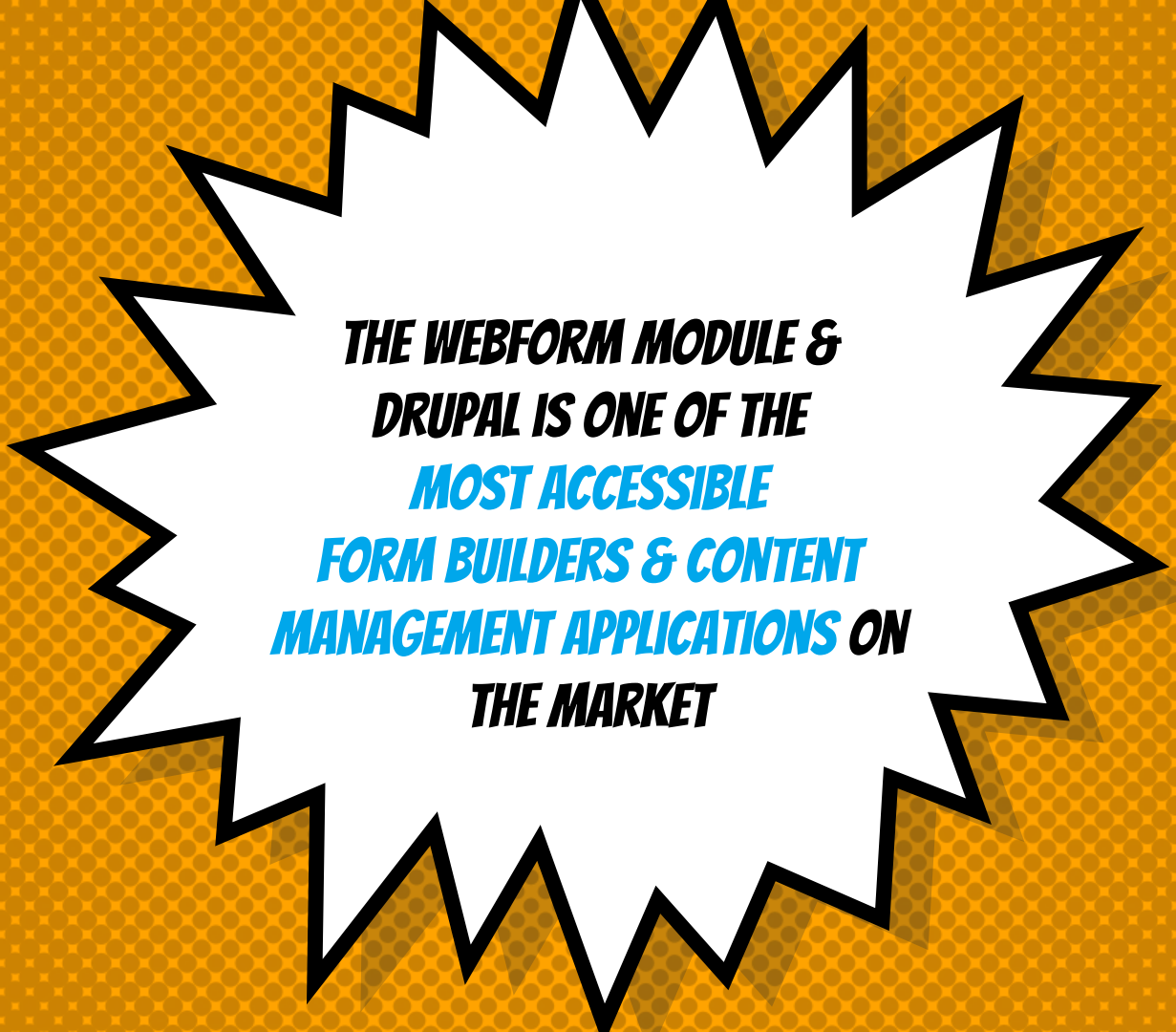
COMPOSITE ELEMENTS

ARE MULTIPLE
ELEMENTS
WORKING
TOGETHER



YOU CAN EVEN BUILD CUSTOM OPTIONS ELEMENTS





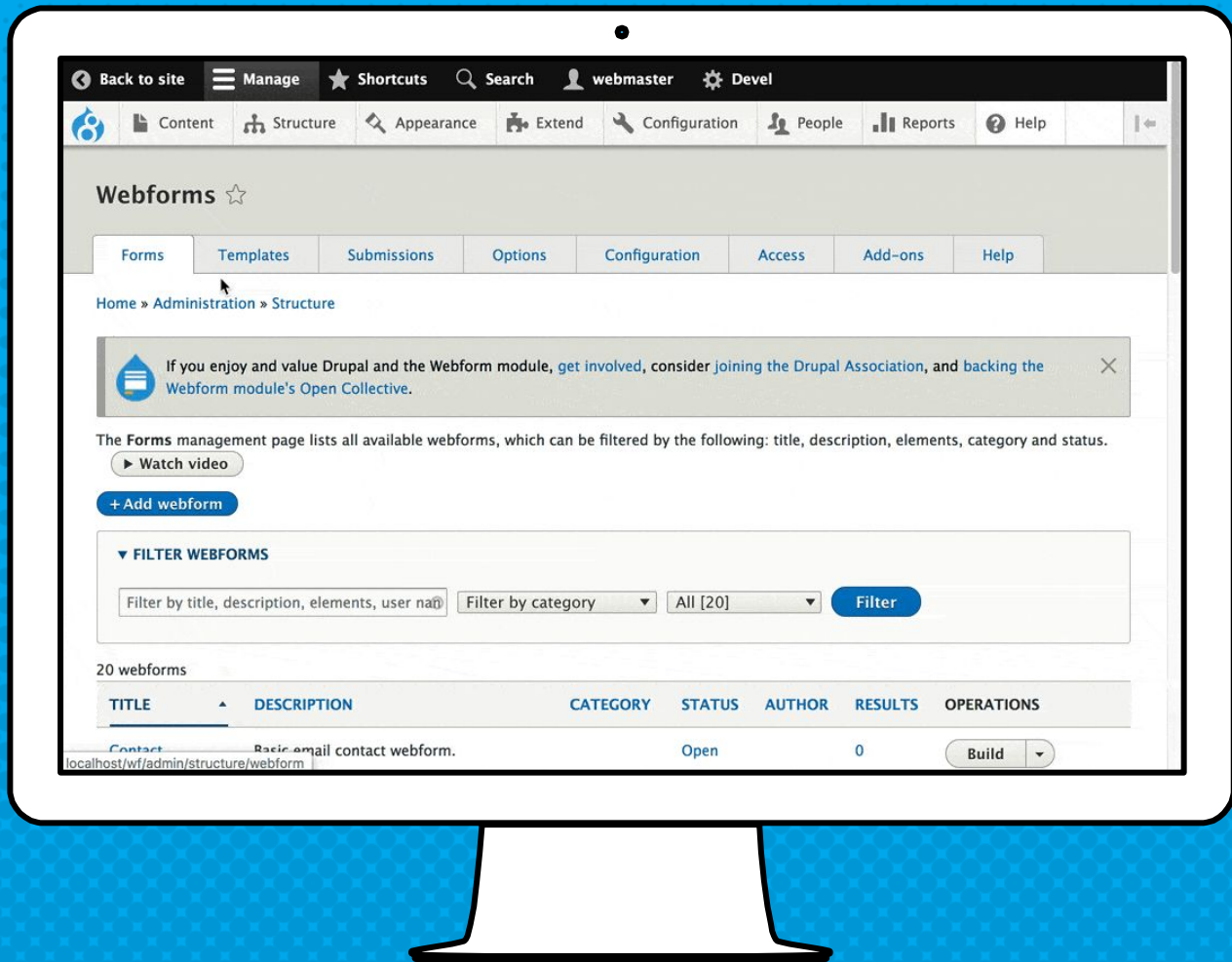
**THE WEBFORM MODULE &
DRUPAL IS ONE OF THE
MOST ACCESSIBLE
FORM BUILDERS & CONTENT
MANAGEMENT APPLICATIONS ON
THE MARKET**

WEBFORM TEMPLATES

- × Employee Information
- × Job Application
- × Event Registration
- × Session Evaluation
- × Request a Medical Appointment

WEBFORM TEMPLATES

PROVIDE
WORKING
EXAMPLES
& STARTING
POINTS





***WHAT CAN YOU
BUILD USING THE
WEBFORM MODULE?***

APPLICATIONS

College Applications

Job Applications

Employee Evaluations

REGISTRATION

Event Registrations

Meetup Registrations

User Registrations

ETC...

Online Donations

Appointments

User Profiles

WEBFORM DEMOS

- × **Application Evaluation**

An evaluation form attached to applications.

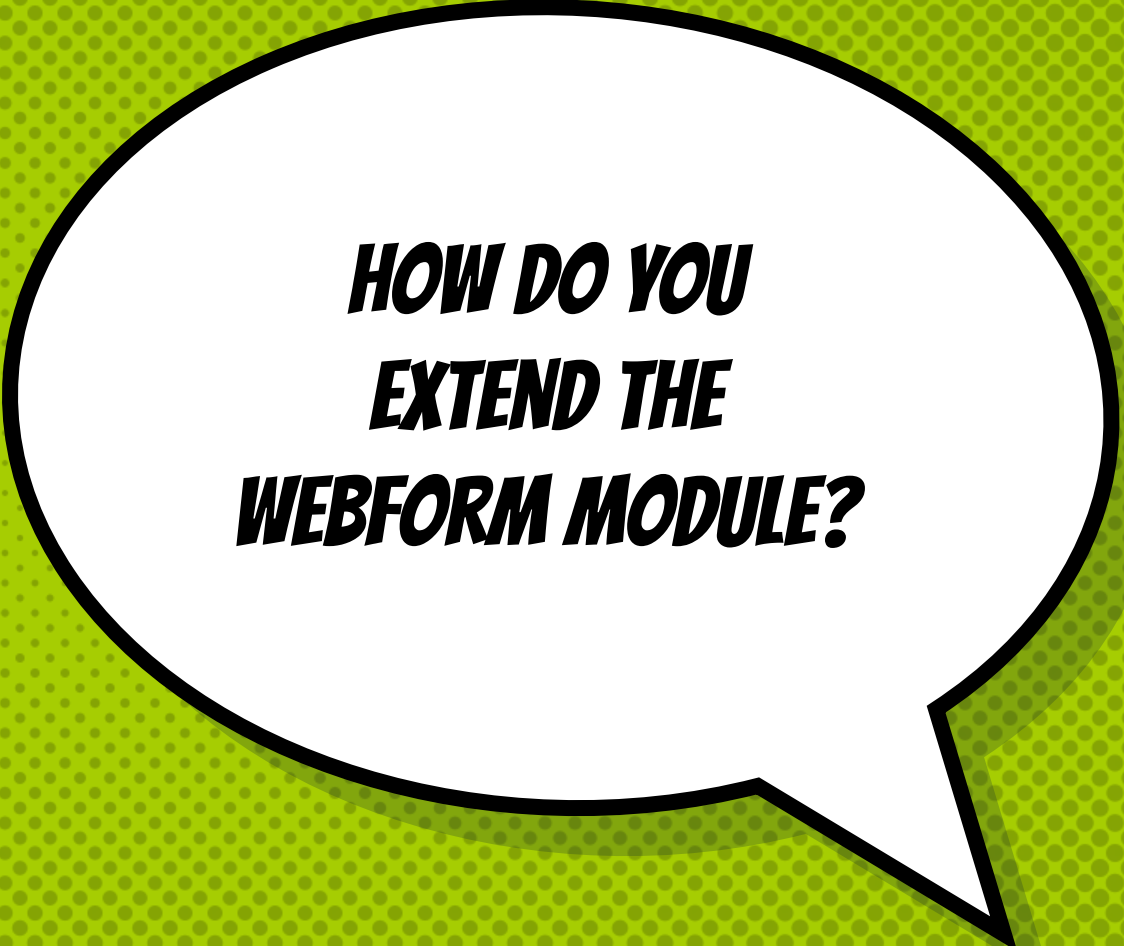
- × **Event Registration**

A registration form that tracks which event a user has registered for.

A computer monitor with a white bezel and a black dot at the top center. The screen is dark blue and displays the text '<demo>' in a large, light blue, sans-serif font. Below this, the text 'Webform Demo: Application Evaluation & Event Registration' is displayed in a smaller, yellow, monospace font. The background of the entire image is a light blue grid pattern.

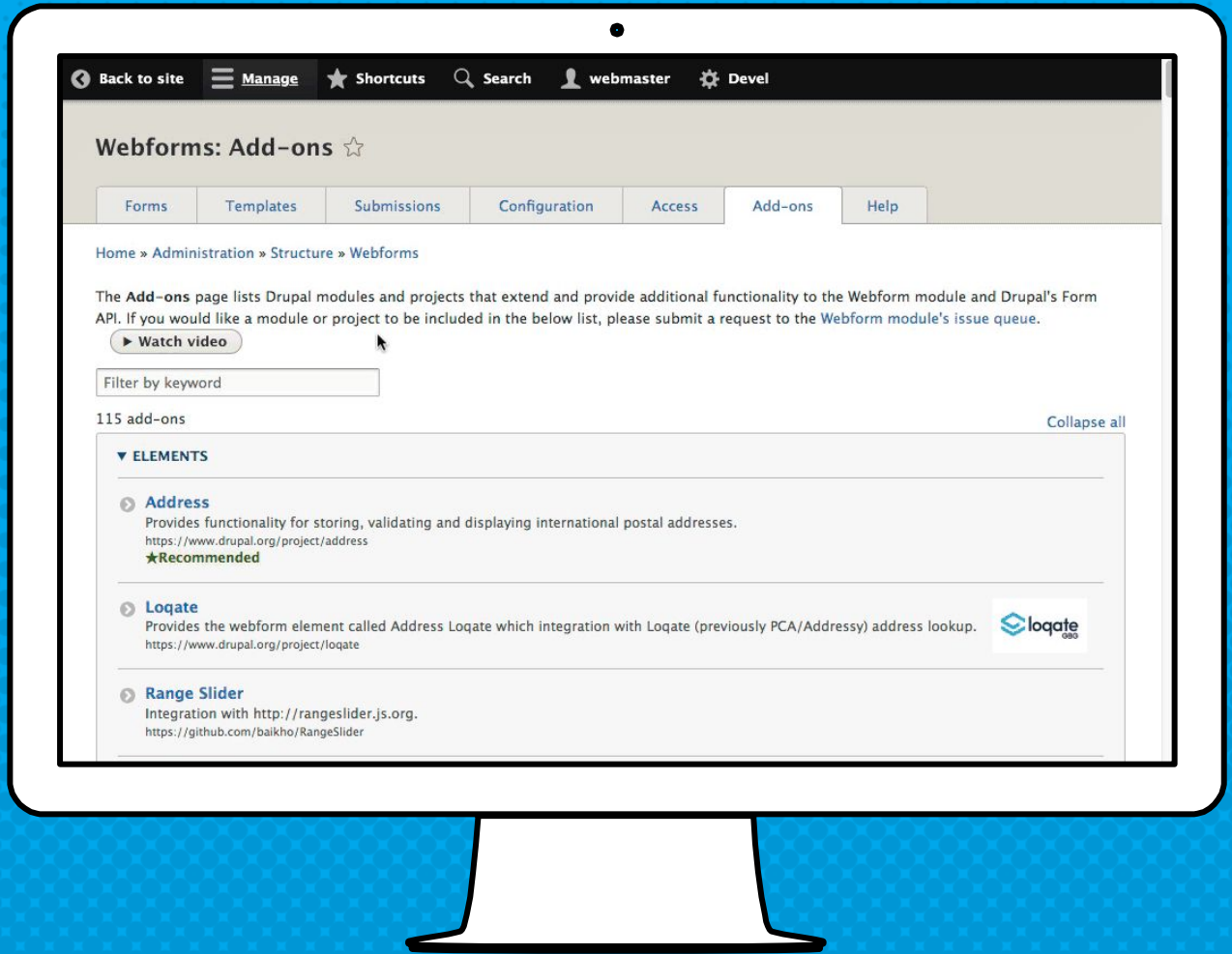
<demo>

Webform Demo:
Application Evaluation
& Event Registration



***HOW DO YOU
EXTEND THE
WEBFORM MODULE?***

INSTALL WEBFORM ADD-ONS



EXTENDING THE WEBFORM MODULE

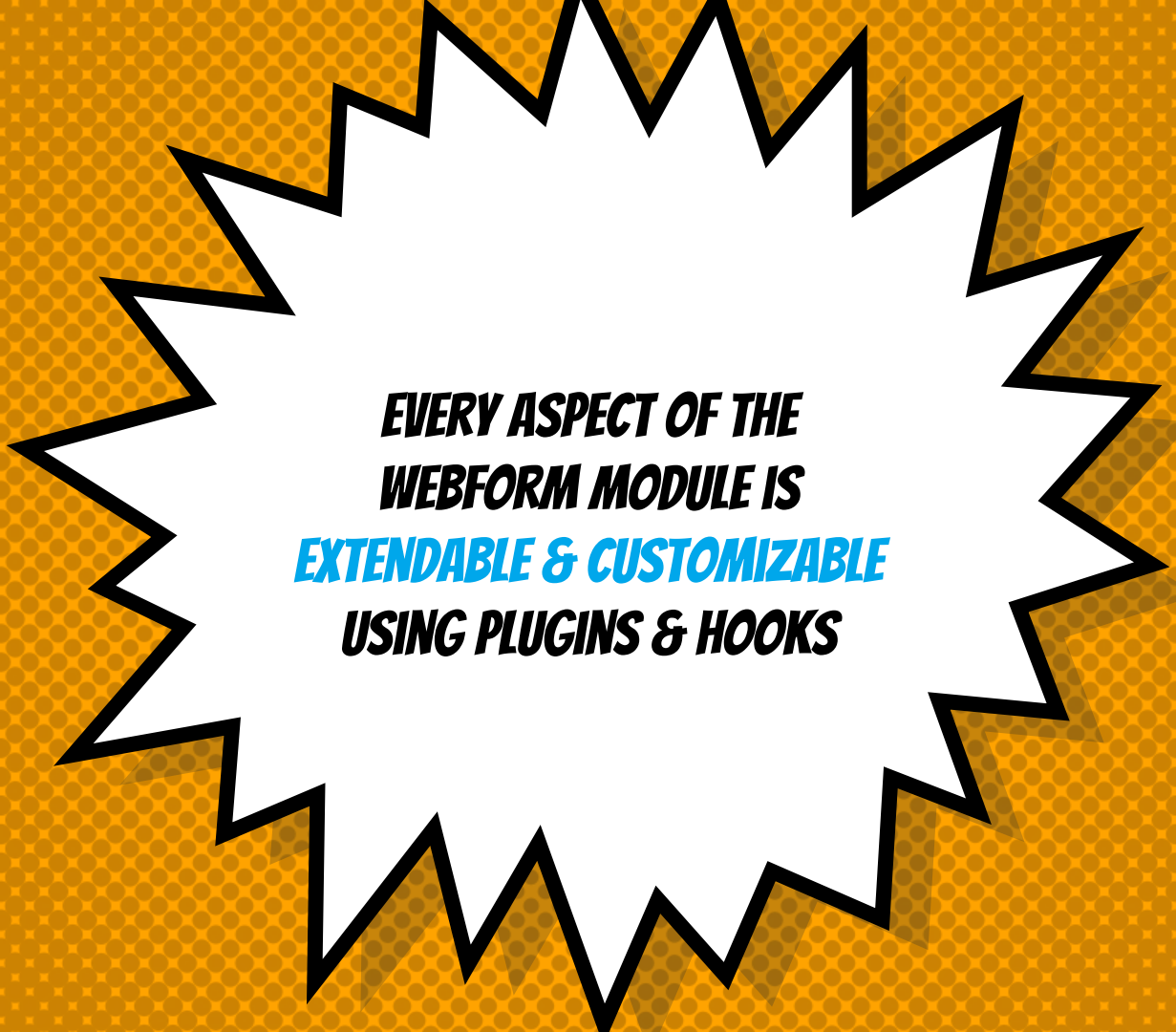




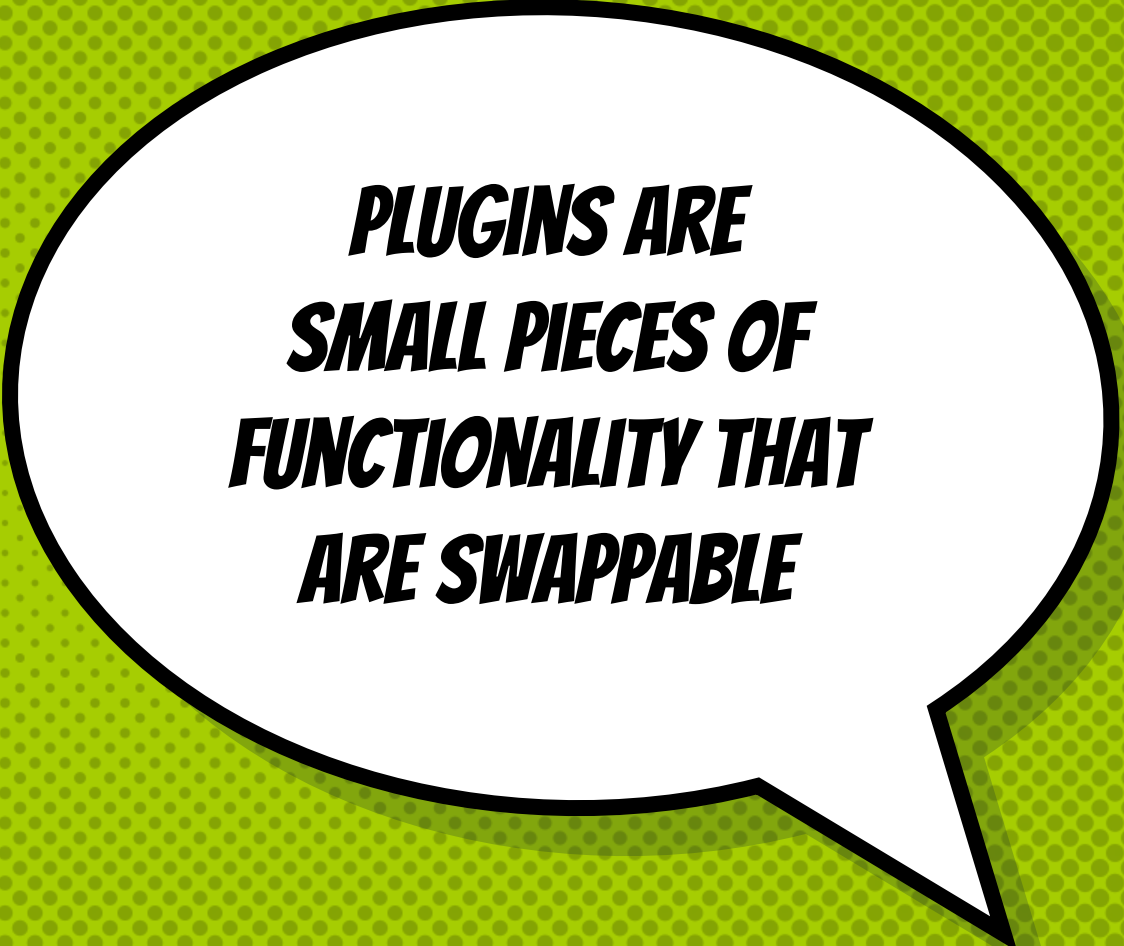
***WEBFORM FOR
DEVELOPERS***



***WHAT CAN YOU
DO WITH THE
WEBFORM MODULE?***

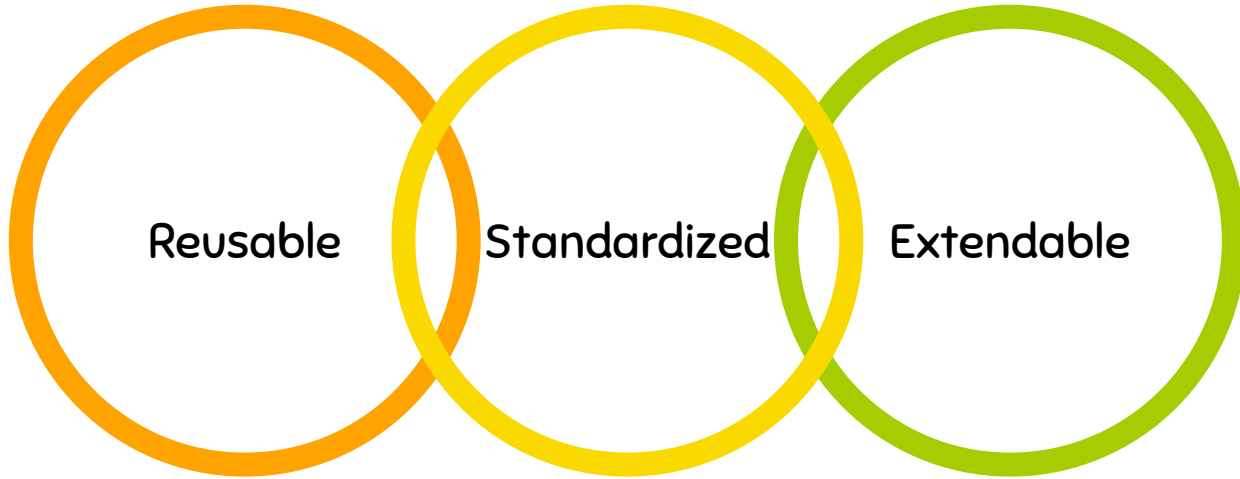


***EVERY ASPECT OF THE
WEBFORM MODULE IS
EXTENDABLE & CUSTOMIZABLE
USING PLUGINS & HOOKS***



***PLUGINS ARE
SMALL PIECES OF
FUNCTIONALITY THAT
ARE SWAPPABLE***

PLUGINS ARE...



WEBFORM PLUGINS

Elements

Wrappers that enhance Drupal form elements

Handlers

Used to route submitted data to applications & send email notifications

Exporters

Used to download submissions into spreadsheets & other applications

```
@see \Drupal\webform_example_composite\Element\WebformExampleComposite
```

```
class WebformExampleComposite extends WebformCompositeBase {

    public function getInfo() {
        return parent::getInfo() + ['#theme' => 'webform_example_composite'];
    }

    public static function getCompositeElements(array $element) {
        $elements = [];
        $elements['first_name'] = [
            '#type' => 'textfield',
            '#title' => t('First name'),
        ];
        $elements['last_name'] = [
            '#type' => 'textfield',
            '#title' => t('Last name'),
        ];
        return $elements;
    }
}
```

WEBFORM HANDLERS

Email & Scheduled Email

Sends a webform submission via an email

Actions & Settings

Trigger a conditional action or setting on a submission

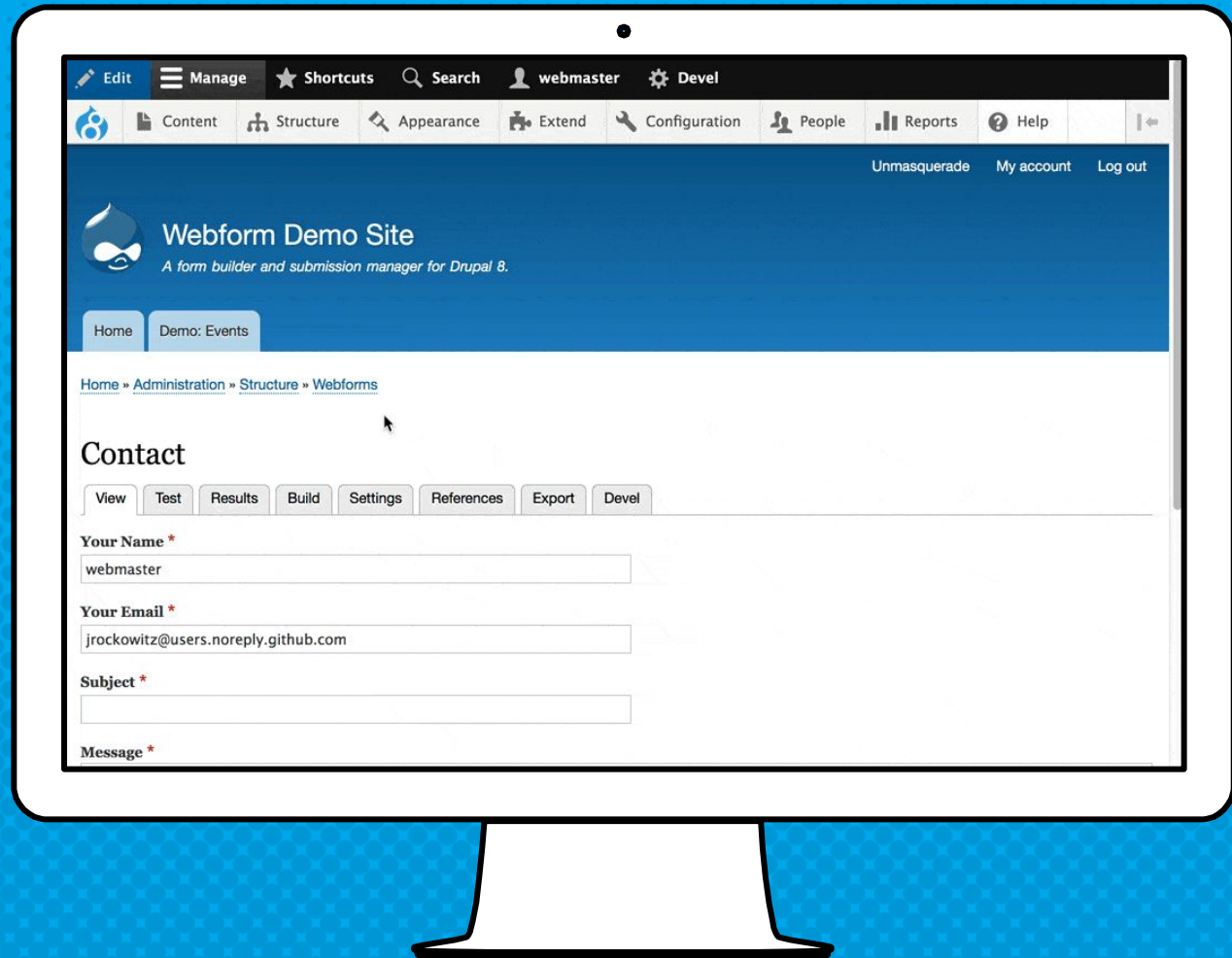
Remote Post

Posts webform submissions to a URL

Debug

Debug webform submission

**REMOTE POST
HANDLERS
ALLOWS A
WEBFORM TO
BE INTEGRATED
WITH ANY
EXTERNAL
API OR SYSTEM**

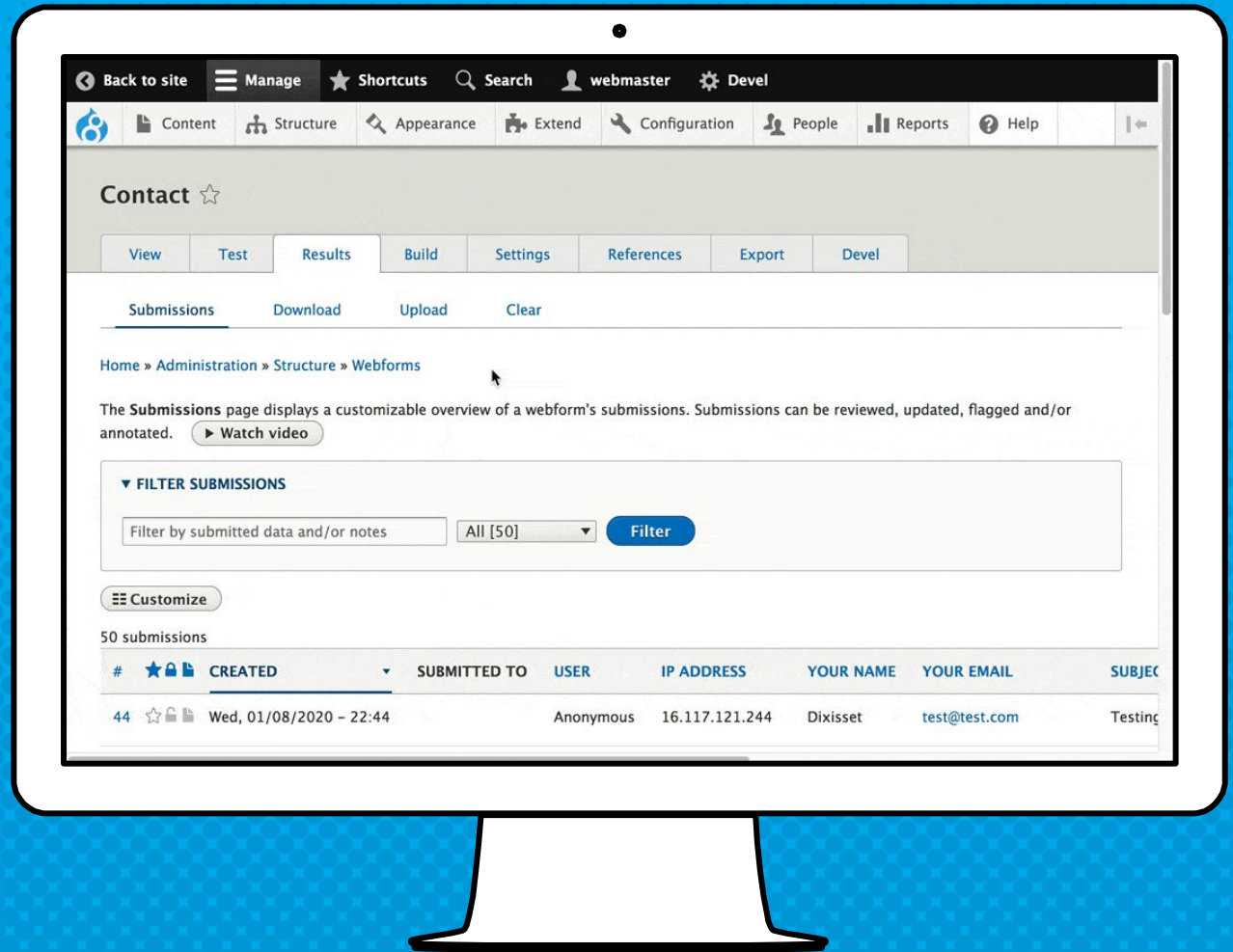


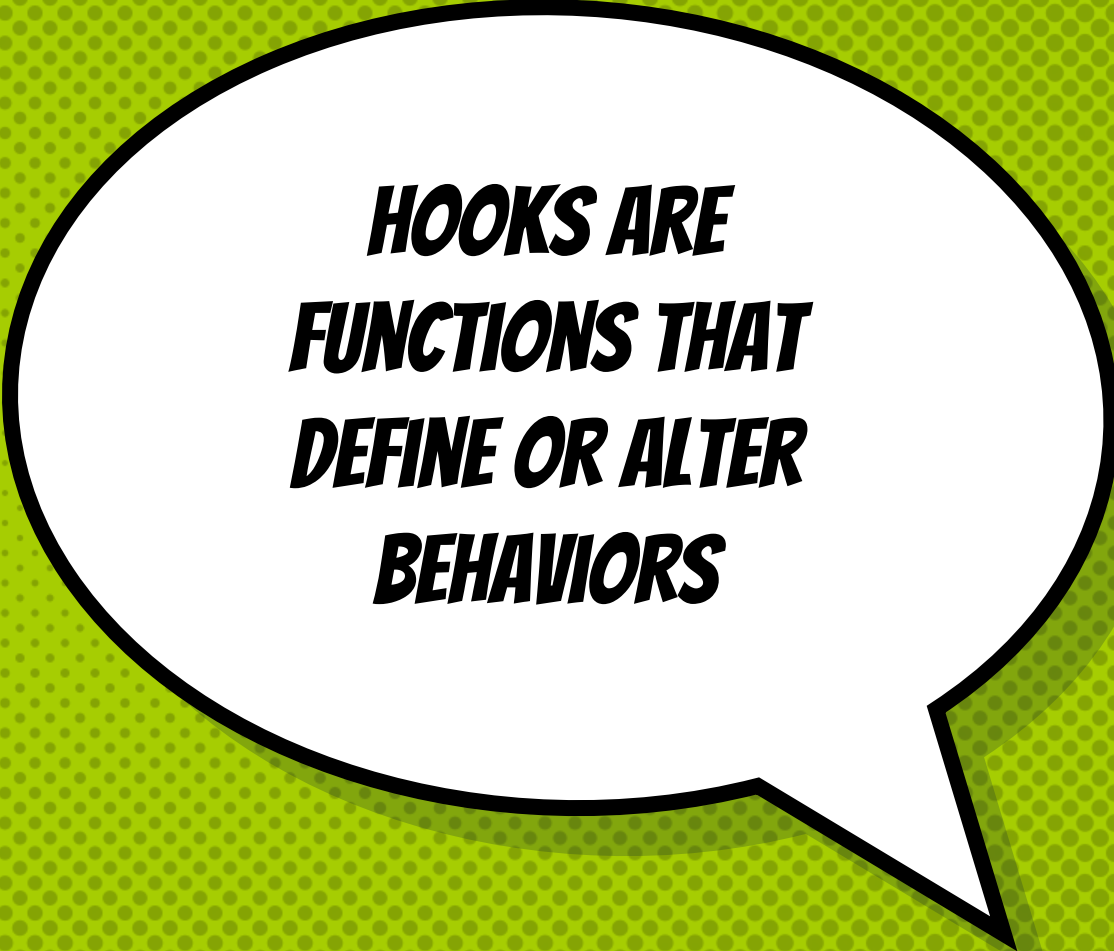
OPTIONS FOR HANDLING WEBFORM SUBMISSION DATA

- × Encrypt submission data
- × Disable saving of submissions
- × Remote posts and CRM integrations
- × Scheduling the purging of submissions
- × Define user submission access controls

THE RESULTS DOWNLOAD PAGE

USE A
CUSTOMIZABLE
& EXTENDABLE
EXPORTER
PLUGIN





***HOOKS ARE
FUNCTIONS THAT
DEFINE OR ALTER
BEHAVIORS***

FORM HOOKS

`hook_webform_submission_form_alter`

ELEMENT HOOKS

`hook_webform_element_alter`

OPTION HOOKS

`hook_webform_options_alter`

HANDLER HOOKS

`hook_webform_handler_invoke_alter`

ENTITY HOOKS

`hook_webform_submission_insert`

`hook_webform_submission_load`

`hook_webform_submission_save`

`hook_webform_submission_delete`

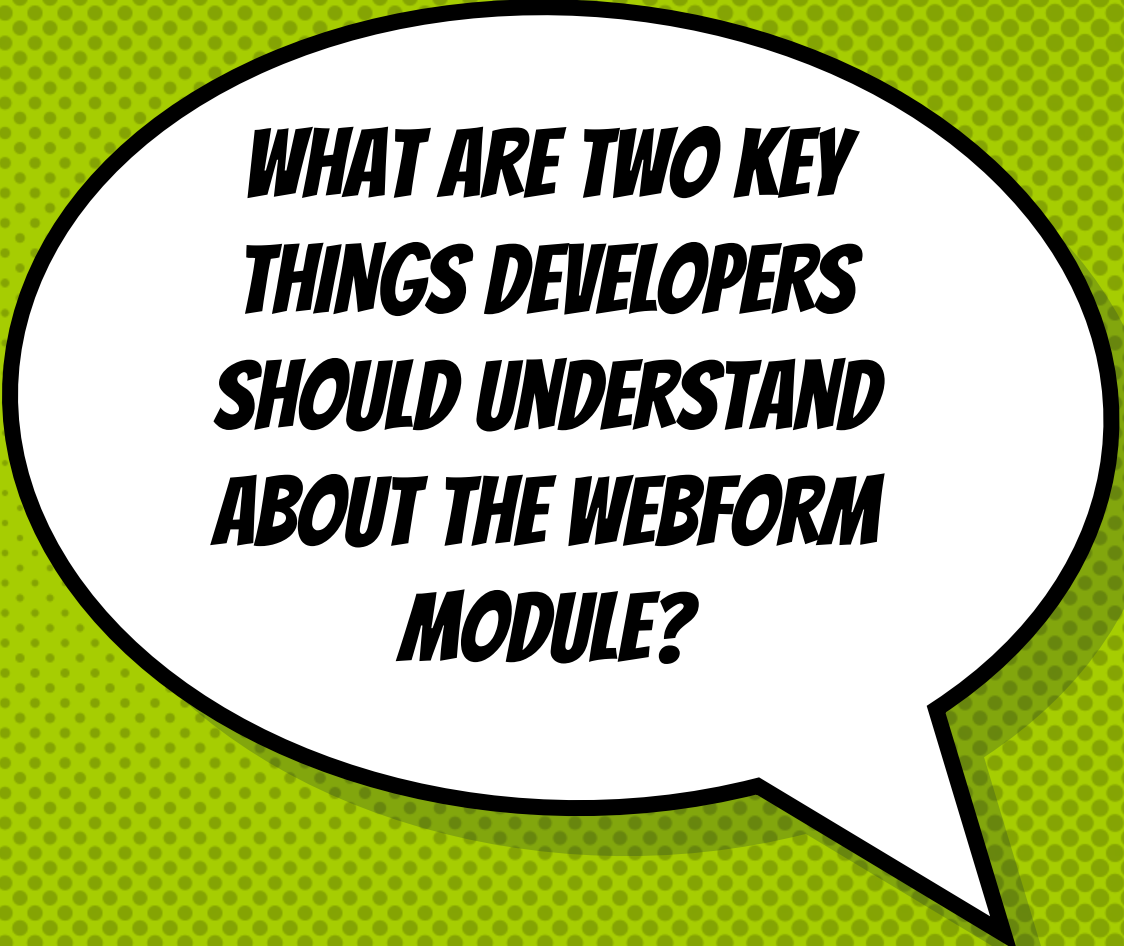
etc...

MORE HOOKS...

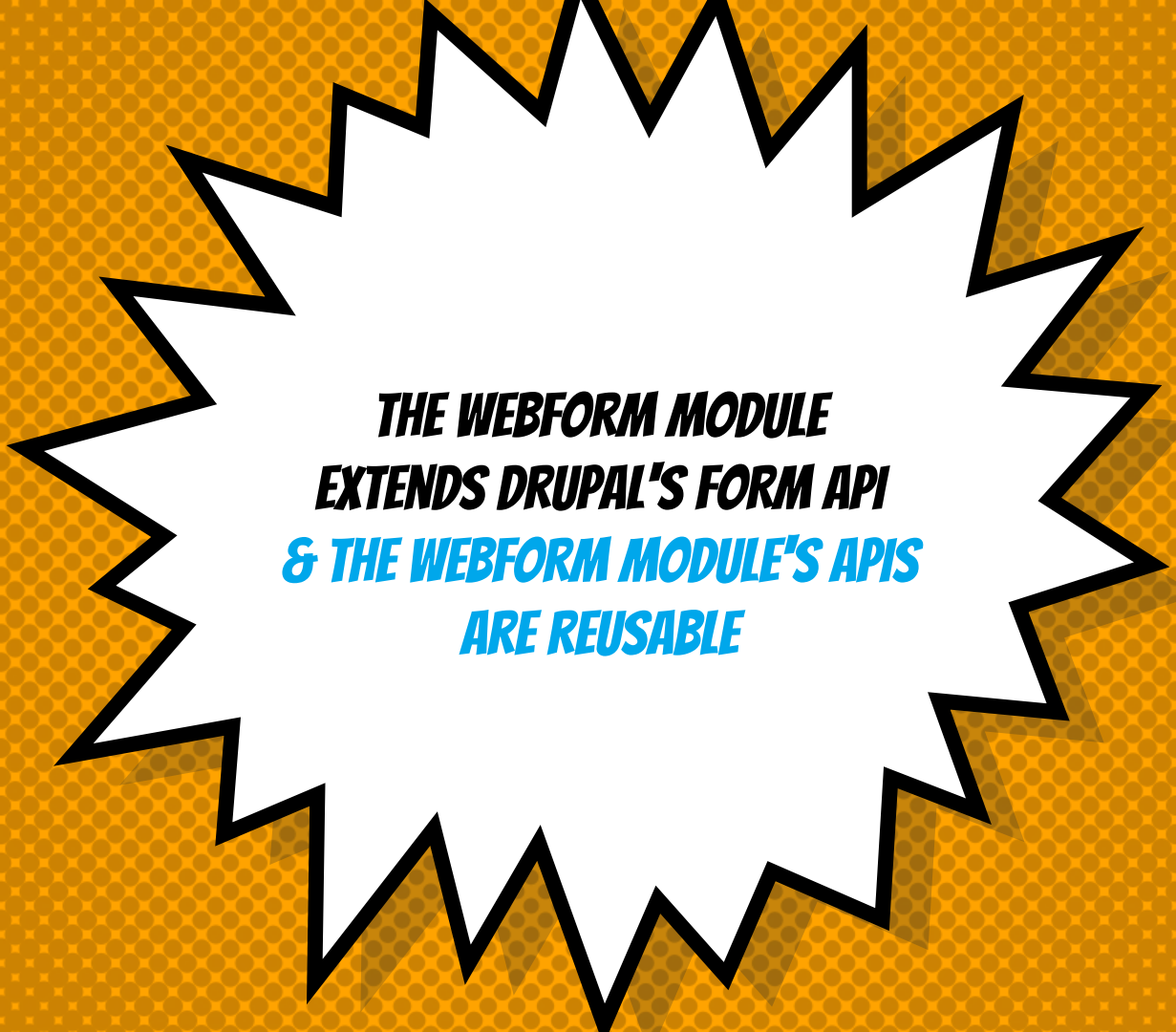
`hook_webform_libraries_info_alter`

`hook_webform_access_rules_alter`

@see `webform.api.php`

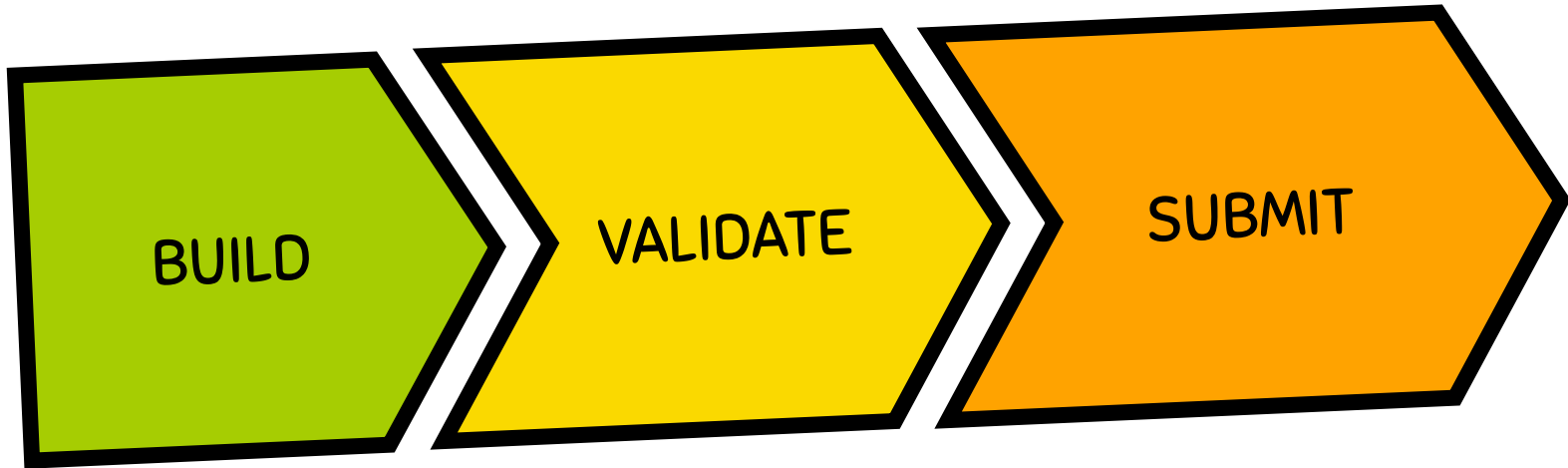


***WHAT ARE TWO KEY
THINGS DEVELOPERS
SHOULD UNDERSTAND
ABOUT THE WEBFORM
MODULE?***



***THE WEBFORM MODULE
EXTENDS DRUPAL'S FORM API
& THE WEBFORM MODULE'S APIS
ARE REUSABLE***

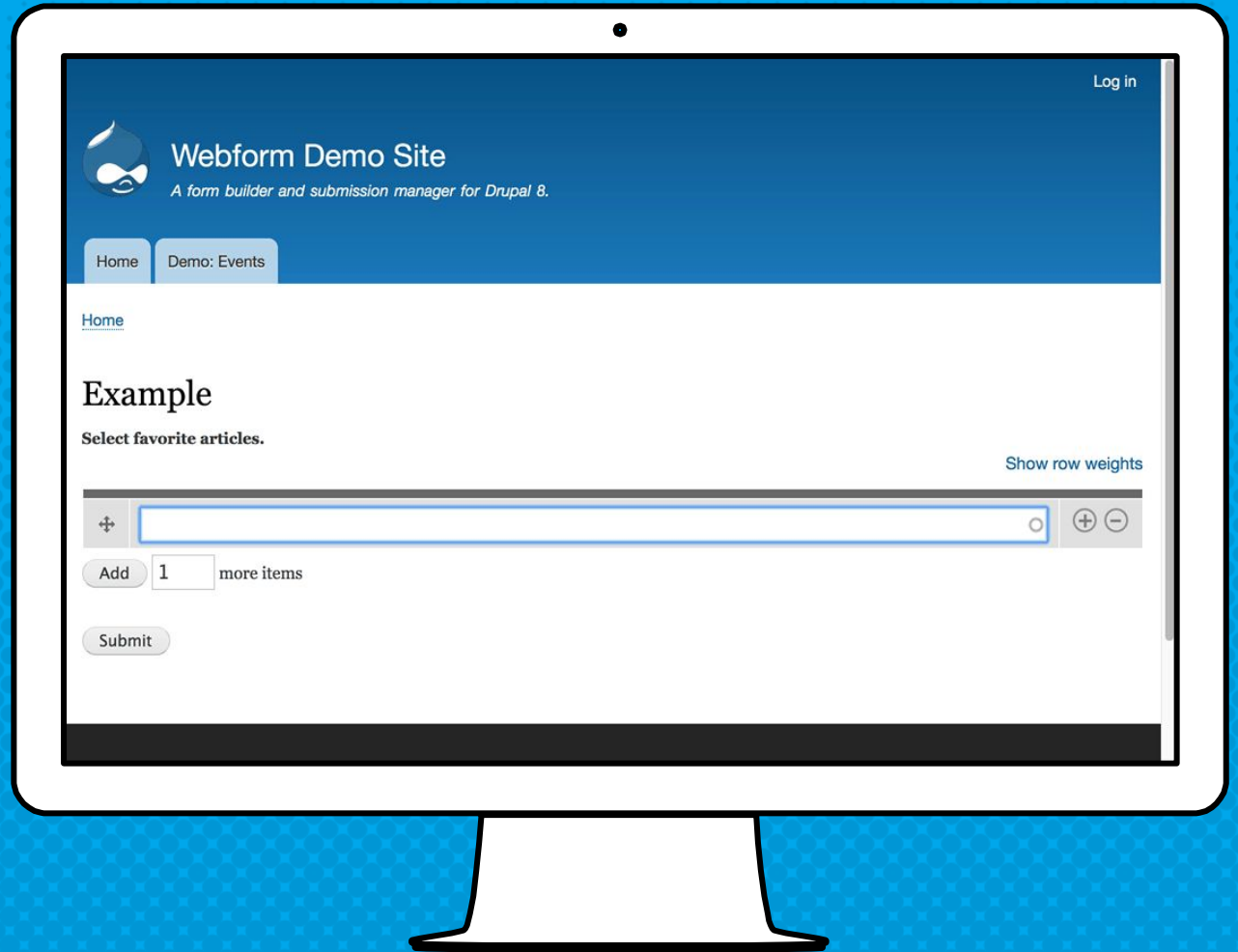
HOW DOES DRUPAL'S FORM API WORK?



```
<?php
```

```
public function buildForm(array $form, FormStateInterface $form_state) {
    $config = $this->config('custom_module');
    // Define the element(s).
    $form['nodes'] = [
        '#type' => 'entity_autocomplete',
        '#title' => $this->t('Select favorite articles.'),
        '#multiple' => 15,
        '#target_type' => 'node',
        '#selection_handler' => 'default:node',
        '#selection_settings' => [
            'target_bundles' => ['article' => 'article'],
            'sort' => ['field' => 'title', 'direction' => 'ASC'],
        ],
        '#default_value' => $config->get('nodes'),
    ];
    // Process the element(s).
    $this->elementManager->processElement($form['nodes']);
    // Attach behaviors. Unsaved: Warn users about unsaved changes.
    $form['#attributes']['class'][] = 'js-webform-unsaved';
    $form['#attached']['library'][] = 'webform/webform.form.unsaved';
    return parent::buildForm($form, $form_state);
}
```


VOILA!!!
NOW YOU HAVE
A MULTIPLE
ENTITY
AUTOCOMPLETE
ELEMENT



A computer monitor with a white bezel and a black dot at the top center. The screen is dark blue and displays the text '<demo>' in large blue font, followed by 'Webform Devel:' and 'Form API Export' in yellow monospace font. The background of the entire image is a light blue halftone pattern.

<demo>

Webform Devel:
Form API Export

WEBFORM APIS & FEATURES THAT ARE *NOT* REUSABLE

- × Multi-step forms
- × Submission display
- × Webform handlers & variants
- × Access controls
- × PDF generation

WEBFORM APIS & FEATURES THAT ARE ALSO REUSABLE

- × Modal dialog support
- × Ajaxified forms (WebformAjaxFormTrait)
- × Utility classes (\Drupal\webform\Utility)
- × Functional testing (WebformBrowserTestTrait)
- × Test files (/tests/files)

HELP IMPROVE APIS

BY CONTRIBUTING

CODE & IDEAS



WEBFORM

& DRUPAL

GETTING INVOLVED

GETTING INVOLVED IN THE WEBFORM MODULE

- × Report or fix a bug

<https://www.drupal.org/node/73179>

- × Request or build feature

<https://www.drupal.org/node/add/project-issue/webform>

- × Write or edit documentation

<https://www.drupal.org/docs/8/modules/webform>

- × Spread the word & tell your story

<https://www.drupal.org/case-studies>

- × Sponsor & contribute a new feature

GETTING INVOLVED IN THE DRUPAL COMMUNITY

- × User support
- × Documentation
- × Translations
- × Testing
- × Design & Usability
- × Donations
- × Development
- × Themes
- × Events
- × Marketing



#DrupalCares

WEBFORM

OPEN COLLECTIVE

WHAT IS OPEN COLLECTIVE?

Open Collective is a service that allows Open Source projects to transparently collect and distribute funds. Organizations that back an Open Collective will get a receipt for their financial contributions and be able to see exactly how the collected money is being spent.

SUPPORT WEBFORM MODULE & DRUPAL COMMUNITY

Get involved with the Drupal project and also consider helping to financially support the Webform module by becoming a backer or by making a one-time contribution to say thanks by joining the Webform module's Open Collective.

<https://opencollective.com/webform>

LEARN



***TRAINING
& SUPPORT***

CONTRIBUTE



***SPONSOR
A FEATURE***

SUCCEED



***CONTACT
ME***



JROCKOWITZ.COM

<https://www.drupal.org/u/jrockowitz>



RALPH SAYS...



THANKS!

***ANY
QUESTIONS?***

