

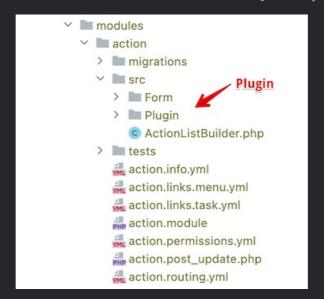
Blocks

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views 178

Blocks are plugins, which are reusable pieces of code following design patterns. Plugins are also used to define views arguments, field formatters, field widgets, etc. The source files for blocks are found in each module's /src/Plugin directory.



SEE ALSO

- Plugin API overview
- Annotations-based plugins

Create a block with Drush generate

Use Drush's code generation ability to quickly generate the code you need to create your own custom block.

First generate a module if you don't have one. Here we generate a module called Block Module with a machine name: block_module.

Welcome to module generator!
Module name \[Web\]:
➤ Block Module
Module machine name \[block_module\]:
>
Module description \[Provides additional functionality for the site.\]:
➤ Custom module to explore Drupal blocks
Package \[Custom\]:
>
Dependencies (comma separated):
>
Would you like to create module file? \[No\]:
≻ yes
Would you like to create install file? \[No\]:
>
Would you like to create libraries.yml file? \[No\]:
>
Would you like to create permissions.yml file? \[No\]:
>
Would you like to create event subscriber? \[No\]:
>
Would you like to create block plugin? \[No\]:
>
Would you like to create a controller? \[No\]:
>
Would you like to create settings form? \[No\]:
>
The following directories and files have been created or updated:

• /Users/selwyn/Sites/ddev93/web/modules/custom/block_module/block_module.info.yml
/Users/selwyn/Sites/ddev93/web/modules/custom/block_module/block_module.module
se drush generate to create the code for a block. Specify the module name (e.g. block_module) so Drush knows where to put the block code. /e also must give the block an admin label, plugin ID, and class.
\$ drush generate block
Welcome to block generator!
Module machine name \[web\]:
➤ block_module
Block admin label \[Example\]:
➤ Block Module Example
Plugin ID \[block_module_block_module_example\]:
>
Plugin class \[BlockModuleExampleBlock\]:
>
Block category \[Custom\]:
>
Make the block configurable? \[No\]:
>
Would you like to inject dependencies? \[No\]:
>
Create access callback? \[No\]:
>
The following directories and files have been created or updated:
• /Users/selwyn/Sites/ddev93/web/modules/block_module/src/Plugin/Block/BlockModuleExampleBlock.php

 $This \ generates \ a \ file \ at \ web/modules/custom/block_module/src/Plugin/Block/BlockModuleExampleBlock.php \ that \ looks \ like \ this:$

```
namespace Drupal\block_module\Plugin\Block;

use Drupal\Core\Block\Block\Block\Base;

/**

* Provides a block module example block.

* id = "block_module_block_module_example";

* admin_label = @Translation("Block Module Example");

* category = @Translation("Custom")

* /*

class Block\Module\Example\Block extends Block\Base {

/**

* {@inhentdoc}

*/

public function build\party {

Studic\Content] = [

* wmarkup => Shis->t\(\text{it works}\),

};

return Sbuild;

}

* return Sbuild;

}
```

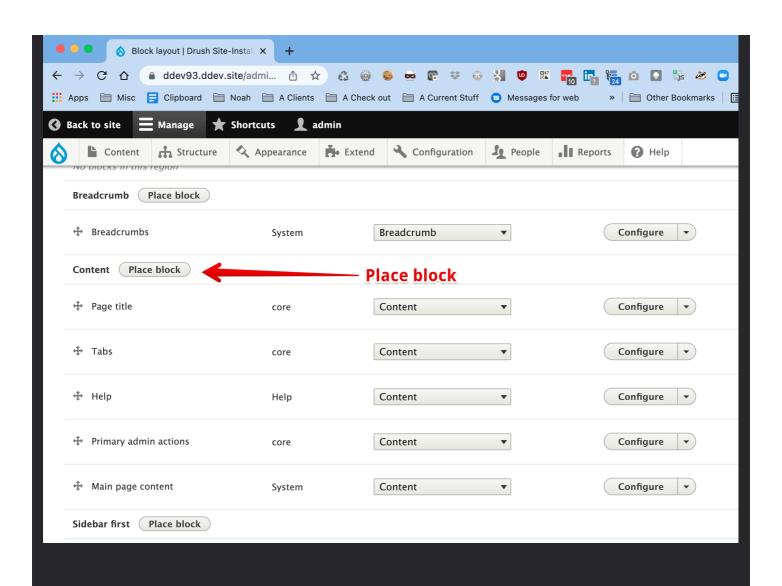
Enable the module with:

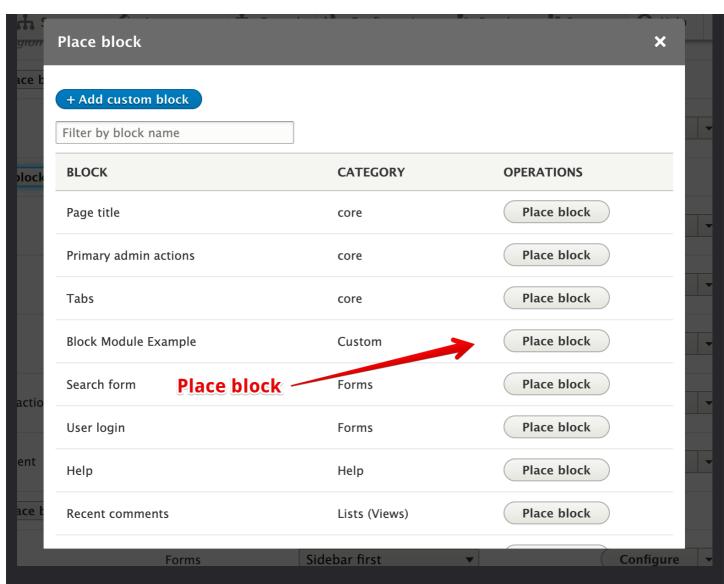
ddev drush en block_module

clear the cache with:

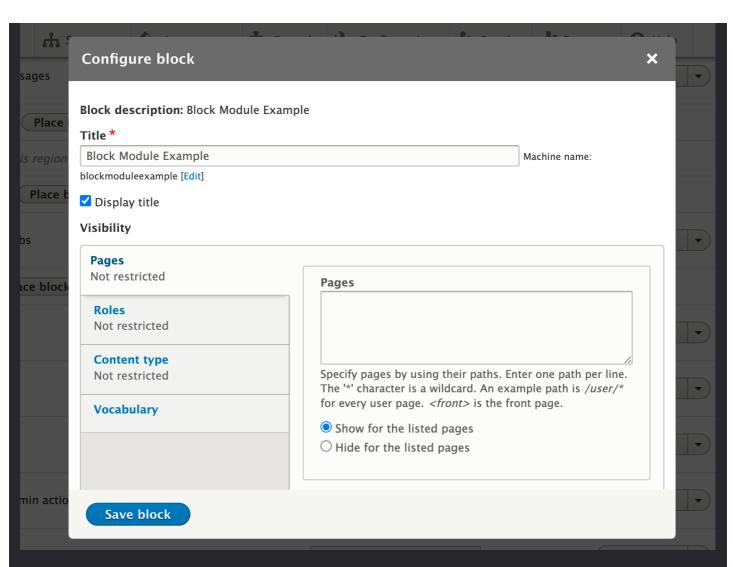
ddev drush cr

In Drupal, navigate to /admin/structure/block and place the block ("block module example") in the content area. See the diagram below on how to place the block in the content area.

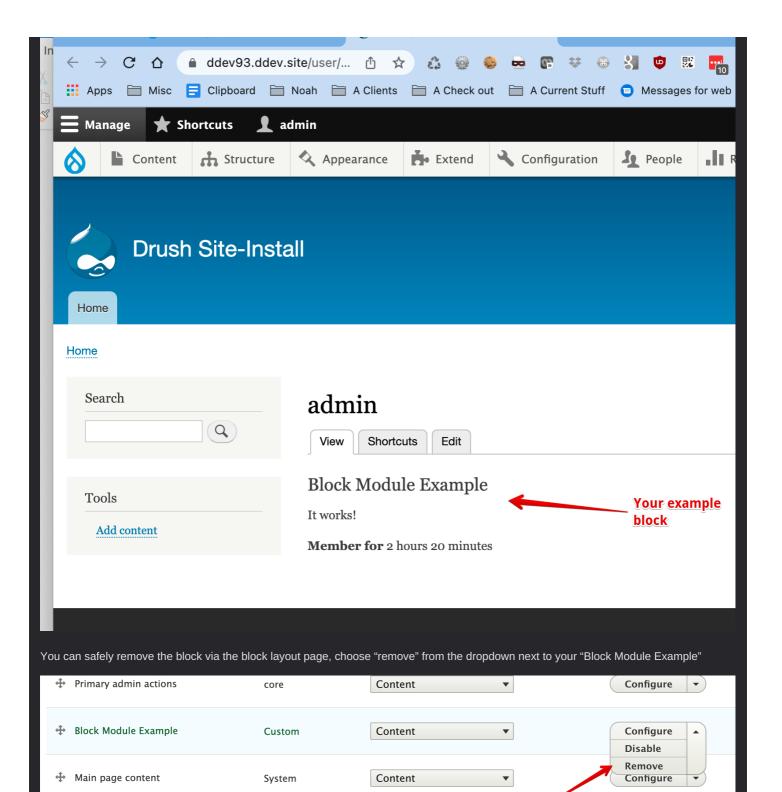




You may have to clear the Drupal cache again to get the new block to show up in the list. After clicking "Place block," a "Configure block" screen appears. You can safely just click "Save block."



Navigate back to the home page of the site and you'll see your block appearing. Screenshot below:



Remove the new block

Anatomy of a custom block with dependency injection

The block class PHP file is usually in \<Drupal web root\>/modules/custom/mymodule/src/Plugin/Block.

 $e.g.\ dev1/web/modules/custom/image_gallery/src/Plugin/Block/ImageGalleryBlock.php$

or

 $dev1/web/modules/contrib/examples/block_example/src/Plugin/Block/ExampleConfigurableTextBlock.php \\$

Specify namespace:

 $name space \ Drupal \ abc_wea \ Plugin \ Block;$

Sidebar first Place block

Blocks always extend BlockBase but can also implement other interfaces... see below.

Class ImageGalleryBlock extends BlockBase

If you want to use Dependency Injection, implement: ContainerFactoryPluginInterface

e.g.

```
class ImageGalleryBlock extends BlockBase implements

ContainerFactoryPluginInterface {
```

Be sure to include:

```
use Drupal\Core\Plugin\ContainerFactoryPluginInterface;
```

And for annotation translation:

```
use Drupal\Core\Annotation\Translation;
```

You can annotate like this:

```
/**

* Hello World Salutation block.

* 

* 

Block(

* 

id = "hello_world_salutation_block",

* 

admin_label = @Translation("Hello world salutation"),

* 

category = @Translation("Custom")

* )

*/
```

Or like this:

In most cases you will implement ContainerFactoryPluginInterface. Plugins require this for dependency injection. So don't forget:

```
use Drupal\Core\Plugin\ContainerFactoryPluginInterface;

class HelloWorldSalutationBlock extends BlockBase implements ContainerFactoryPluginInterface {
```

If you want dependency injection, you will need a create() function.

This will call the constructor (to do lazy loading) and call the container to ->get() the service you need. In the example below \$container->get('hello_world.salutation') does the trick. return new static() calls your class constructor.

Be sure to add your service to the list of parameters in the constructor: \$container->get('hello_world.salutation').

```
/**

*{@inheritdoc}

*/

public static function create(ContainerInterface $container, array $configuration, $plugin_id, $plugin_definition) {

return new static(

$configuration,

$plugin_id,

$plugin_definition,

$container->get('hello_world.salutation')

);

}
```

Here are your __constructor() and a build() functions. See the 4th param — HelloWorldSalutationService \$salutation — that's the injected service.

```
* Construct.

* * @param array $configuration

* A configuration array containing information about the plugin instance.

* @param string $plugin_id

* The plugin_id for the plugin instance.

* @param string $plugin_definition

* The plugin implementation definition.

* @param \text{Drupal\hello_world\hello\World\salutation \$salutation

*/

public function __construct(array \$configuration, \$plugin_id, \$plugin_definition, Hello\World\Salutation\Service \$salutation\} {

parent:__construct(\$configuration, \$plugin_id, \$plugin_definition);

$\$this->-salutation = \$salutation;
}
```

```
/**

* {@inheritdoc}

*/

public function build() {

return [

'#markup' => $this->salutation->getSalutation(),

];
}
```

TODO: NEED A BETTER EXAMPLE OF A D.I. BLOCK HERE especially showing a build()

Create a block with an entityQuery

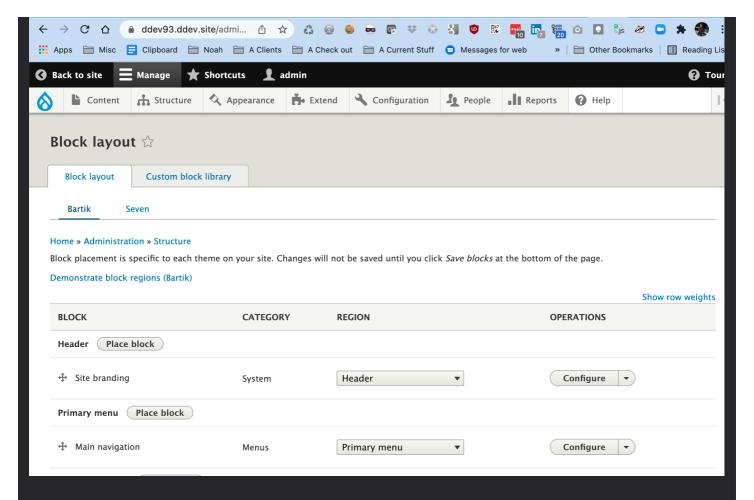
You often need to query some data from Drupal and display it in a block.

Here is a simple block that loads all published content of type "page" and renders the titles. You could sort them by creation date by adding this to the \$query variable: ->sort('created', 'DESC');

```
namespace Drupal\opinions_module\Plugin\Block;
use Drupal\Core\Block\BlockBase;
use Drupal\Core\Annotation\Translation;
class OpinionLanding extends BlockBase {
  $entity_type = 'node';
  $storage = \Drupal::entityTypeManager()->getStorage($entity_type);
  $query = \Drupal::entityQuery('node')
   ->condition('type', 'page')
   ->condition('status', 1);
  $nids = $query->execute();
  $nodes = $storage->loadMultiple($nids);
  $render_array = [];
   $render_array[] = [
    '#type' => 'markup',
    '#markup' => '' . $node->getTitle(),
  return $render_array;
```

Create a Block with a corresponding config form

Here is an example which includes a block and a corresponding config form that controls what is displayed in the block. The block can be placed using the Block Layout system in Drupal at /admin/structure/block (shown below) or via twig in a template file.



The config form definition

The config form is defined in docroot/modules/custom/quick_pivot/src/Form/QuickPivotConfigForm.php with a class which extends ConfigFormBase because this form is there for configuring its block:

 $class\ QuickPivotConfigForm\ extends\ ConfigFormBase\ \{$

In the class are the getFormId(), getEditableConfigName(), buildForm() and submitForm() functions which are all pretty straightforward.

The routing.yml file

Then in docroot/modules/custom/quick_pivot/quick_pivot.routing.yml We specify the route where we invoke the form.

Besides the quick_pivot.info.yml (module info) file, that should be all you need to make the config for the block.

The Block definition

Now for the block that users see (also the one that pops up in the block configuration) in docroot/modules/custom/quick_pivot/src/Plugin/Block/QuickPivotSubscribeBlock.php

We define the block with its annotation:

```
/**

* Provides a cart block.

*

* @Block(

* id = "quick_pivot_subscribe_block",

* admin_label = @Translation("QuickPivot Subscribe Block"),

* category = @Translation("QuickPivot Subscribe")

* )

*/

class QuickPivotSubscribeBlock extends BlockBase implements ContainerFactoryPluginInterface {
```

It implements ContainerFactoryPluginInterface to allow dependency injection. This is critical for plugins or blocks. More at https://chromatichq.com/blog/dependency-injection-drupal-8-plugins. All this interface defines is the create() method. Because we are using dependency injection, we need both a create() and a __constructor().

Here is the create()

```
public static function create(ContainerInterface $container, array $configuration, $plugin_id, $plugin_definition) {
    return new static(
        $configuration,
        $plugin_id,
        $plugin_definition,
        $container->get('config.factory'),
        $container->get('form_builder')
    );
}
```

Here is the constructor:

```
public function __construct(array $configuration, $plugin_id, $plugin_definition, ConfigFactoryInterface $config_factory, FormBuilderInterface $form_builder) {
    parent::__construct($configuration, $plugin_id, $plugin_definition);

$this->configFactory = $config_factory;
$this->formBuilder = $form_builder;
}
```

And finally the build() method:

```
public function build() {
    return $this->formBuilder->getForm('Drupal\quick_pivot\Form\QuickPivotSubscribeForm');
}
```

Here is the docroot/modules/custom/quick_pivot/src/Form/QuickPivotSubscribeForm.php:

```
namespace Drupalquick_pivotForm:

use Drupal(CorelFormiFormBase;
use Drupal(CorelFormiFormBase;
use Drupal(CorelAjanXA)janXResponse;
use Drupal(CorelAjanXA)janXResponse;
use Drupal(CorelAjanXA)janXResponse;
use Drupal(CorelAjanXA)janXResponse;
use Drupal(CorelAjanXA)janXResponse;
use Drupal(CorelAjanXCSsCommand;
use Drupal(CorelAjanXHrmiCommand;
use Drupal(CorelAjanXHrmiCommand
```

```
public function buildForm(array $form, FormStateInterface $form_state) {
 $form['#id'] = 'quick-pivot-subscribe-form';
 $form['#cache'] = ['max-age' => 0];
 $form['#attributes'] = ['autocomplete' => 'off'];
 $form['email'] = [
  '#type' => 'textfield',
  '#id' => 'quick-pivot-email',
  '#placeholder' => $this->t('Email address'),
  " + attributes" => ['class' => ['edit-quick-pivot-email']],
  '#prefix' => '<div class="subscriber-email-msg">',
  '#suffix' => '</div>',
 $form['actions']['subscribe_submit'] = [
  '#type' => 'submit',
  '#value' => $this->t('Sign Up'),
  '#name' => 'quick_pivot_subscribe_form_submit_button',
    'callback' => 'Drupal\quick\_pivot\Form\QuickPivotSubscribeForm:: quickPivotAjaxSubmit',
    \hbox{'wrapper'} => \hbox{'quick-pivot-subscribe-form'},
    'progress' => ['type' => 'throbber', 'message' => NULL],
 $form['message'] = [
  '#markup' => '<div id="quick-pivot-message-area"></div>',
public function validateForm(array &$form, FormStateInterface $form_state) {
public function submitForm(array &$form, FormStateInterface $form_state) {
public\ static\ function\ quickPivotAjaxSubmit (array\ \&\$ form,\ FormStateInterface\ \$ form\_state)\ \{
 $validate = TRUE;
 $email = trim($form_state->getValue('email'));
 if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
  $message = t('Please enter a valid email address.');
  $validate = FALSE;
  $css_border = ['border' => '1px solid red'];
  $css_color = ['color' => 'red'];
 if ($validate) {
```

```
Scss_color = [color => 'preen];

Scss_color = [color => 'green];

$response = | Drupal::service('quick_pivot.api')>subscribeEmail($email);

if (strpos(reset($response), 'Success') !== FALSE) {

$message = t('Thank you for signing up. Your subscription has been activated.');
}

else {

$message = t('Your subscription could not be processed.');
}

$response = new AjaxResponse();

$quick_pivot_form = \Drupal::formBuilder()->rebuildForm('quick_pivot_subscribe_form', $form_state);

if ($validate) {

$quick_pivot_form[email]['#value'] = ";

$quick_pivot_form[email]['#placeholder] = t('Email address');
}

$response->addCommand(new ReplaceCommand('#quick-pivot-subscribe-form', $quick_pivot_form));

$response->addCommand(new CssCommand('#quick-pivot-email', $css_border);

$response->addCommand(new HtnlCommand('#quick-pivot-email', $css_border);

$response->addCommand(new CssCommand('#quick-pivot-message-area', $css_color));

return $response;
}
}
```

Here is the entire QuickPivotConfigForm.php file:

```
namespace Drupal(core)Form/SatteInterface;
use Drupal(Core)Form/CortigFormBase;

/**

* Configure Websphere settings for this site.

*/

class QuickPlvotCortigForm extends ContigFormBase {

/**

* (@inheritioc)

*/

return quick_pivot_settings;

}

/**

* (@inheritioc)

*/

* (@inheritioc)

*/

* (@inheritioc)

*/

protected function getEditableContigNames() {

return quick_pivot_settings);

}

/**

* (@inheritioc)

*/

protected function getEditableContigNames() {

return (quick_pivot.settings);

}

/**

* (@inheritioc)

*/

protected function buildForm(array $form, FormStateInterface $form_state) {
```

```
$config = $this->config('quick_pivot.settings');
 $form['quick_pivot_settings'] = [
  '#type' => 'details',
  '#title' => $this->t('Quick Pivot API Settings'),
  '#weight' => 1,
 $form['quick_pivot_settings']['api_end_point'] = [
  '#type' => 'textfield',
  '#description' => $this->t("Enter the API end point URL."),
  '#default_value' => $config->get('quick_pivot_settings.api_end_point'),
  '#size' => 100,
 $form['quick_pivot_settings']['user_guid'] = [
  '#type' => 'textfield',
  '#title' => $this->t('User GUID'),
  '#description' => $this->t("SOAP API User GUID"),
  '#default_value' => $config->get('quick_pivot_settings.user_guid'),
 $form['quick_pivot_settings']['account'] = [
  '#title' => $this->t('Account'),
  '#description' => $this->t("SOAP API Account"),
  '#default_value' => $config->get('quick_pivot_settings.account'),
  '#required' => TRUE,
 $form['quick_pivot_settings']['sender'] = [
  '#type' => 'textfield',
  '#description' => $this->t("SOAP API Sender"),
  '#default_value' => $config->get('quick_pivot_settings.sender'),
  '#size' => 100,
 return parent::buildForm($form, $form_state);
public function submitForm(array &$form, FormStateInterface $form_state) {
 $this->config('quick_pivot.settings')
   ->set('quick_pivot_settings.api_end_point', $form_state->getValue('api_end_point'))
   ->set('quick_pivot_settings.user_guid', $form_state->getValue('user_guid'))
   \verb|->set('quick_pivot_settings.account', \$form_state->getValue('account'))|\\
    ->set('quick_pivot_settings.sender', $form_state->getValue('sender'))
   ->save();
```

```
parent::submitForm($form, $form_state);
}
```

And the QuickPivotSubscribeBlock.php:

```
namespace Drupal\quick_pivot\Plugin\Block;
use Drupal\Core\Block\BlockBase;
use \ Symfony \ Component \ Dependency Injection \ \ Container Interface;
use\ Drupal \ Core \ Config \ Config Factory Interface;
use Drupal\Core\Plugin\ContainerFactoryPluginInterface;
use Drupal\Core\Form\FormBuilderInterface;
class\ Quick Pivot Subscribe Block\ extends\ Block Base\ implements\ Container Factory Plugin Interface\ \{ block\ Plugin\ Pl
     protected $configFactory;
     protected $formBuilder;
     public function __construct(array $configuration, $plugin_id, $plugin_definition, ConfigFactoryInterface $config_factory, FormBuilderInterface $form_builder) {
         parent::__construct($configuration, $plugin_id, $plugin_definition);
```

And here is the routing file: docroot/modules/custom/quick_pivot/quick_pivot.routing.yml

```
quick_pivot.config:

path: '/admin/config/quick_pivot/settings'

defaults:

_form: 'Drupal\quick_pivot\Form\QuickPivotConfigForm'

_title: 'Quick Pivot Settings'

requirements:

_permission: 'administer site configuration'
```

And for the icing, We also specify a menu item so users can access the configuration form via the menu system at docroot/modules/custom/quick_pivot/quick_pivot/links.menu.yml.

```
quick_pivot.config:
title: 'QuickPivot API settings'
description: 'Configure the QuickPivot API Settings.'
parent: system.admin_config_services
route_name: quick_pivot.config
weight: 1
```

Modify a block with hook_block_view_alter or hook_block_build_alter

Some drupal hooks only run inside a contributed modules and some only inside a theme and some both.

```
function themename_preprocess_block(&$variables)
{
    if ($variables['plugin_id'] == 'entity_browser_block:department_info') {
        $variables['#attached']['library']] = 'drupal/libraryname';
    }
}
```

What's described below could potentially be done on a theme preprocess for the block.

If you need to modify a block, you can supposedly use hook_block_view_alter or hook_block_build_alter, although I haven't been able to make this work home.

There is a comment that may be worth exploring at

https://api.drupal.org/api/drupal/core%21modules%21block%21block.api.php/function/hook block view alter/8.2.x.

To alter the block content you must add a #pre_render in the hook_block_view_alter hook.

In https://drupal.stackexchange.com/a/215948 there is an example which fills in the \$build[#pre_render]] array with a string.

In an example on that stackexchange site, this function is provided:

```
function yourmodule_block_view_alter(array &$build, \Drupal\Core\Block\BlockPluginInterface $block) {

if ($block->getBaseId() === 'system_powered_by_block') {

$build["#pre_render'][] = '_yourmodule_block_poweredby_prerender';
}
```

I think this is the version I tried:

And I discovered an example from a project where the \$build[#pre_render][] array is populated with a function. I'm not sure what that function did – presumably returned some text to be rendered.

```
*Implements hook_block_view_alter().

*/

function pega_academy_core_block_view_alter(array &$build, \Drupal\Core\Block\BlockPluginInterface $block) {

if ($block->getBaseld() === 'block_content') {

if ($block->label() === "Home Page Alert") {

$build["#pre_render]]] = 'Drupal\pega_academy_core\Controller\DashboardController::home_page_alert_prerender';

$build[content'] = 'New content built here!';

}

}
```

Disable caching in a block

 $From \ docroot/modules/custom/websphere_commerce/modules/cart/src/Plugin/Block/CartSummary.php:$

```
/**

* {@inheritdoc}

*/
public function getCacheMaxAge() {
  return 0;
}
```

Add a configuration form to your block

Making a block configurable means it has a form where you can specify its settings, e.g., the configuration form for the menu block module allows you to specify menu levels. Ignore this if your block does not need any configuration.

To make your block configurable, override 3 methods from BlockBase.

- 1 defaultConfiguration
- 2 blockForm
- 3 blockSubmit

Here defaultConfiguration() returns a block_count of 5.

```
/**

*{@inheritdoc}

*/

public function defaultConfiguration() {

// By default, the block will display 5 thumbnails.

return [

'block_count' => 5,

];

}
```

blockForm() is used to create a configuration form:

```
*{@inheritdoc}

*/

public function blockForm($form, FormStateInterface $form_state) {

$range = range(2, 20);

$form[block_count] = [

'#type' => 'select',

'#title' => $this->t('Number of product images in block'),

'#default_value' => $this->configuration['block_count'],

'#options' => array_combine($range, $range),

];

return $form;
}
```

And blockSubmit() handles the submission of the config form. You don't need to save anything. The data is saved automatically into the Drupal config system. You just specify a configuration key like \$this->configuration['block_count'] and the rest is handled for you.

```
/**

*{@inheritdoc}

*/

public function blockSubmit($form, FormStateInterface $form_state) {

$this->configuration[block_count'] = $form_state->getValue('block_count');
}
```

The build() method does all the work of building a render array to display whatever your block wants to display. Here is an example of a

build() function.

```
$build = [];
$node = $this->getContextValue('node');
$product = $this->getProduct($node);
if ($product) {
 $image_data = $this->productManagerService->retrieveProductImages($product);
 $block_count = $this->configuration['block_count'];
 $item_count = 0;
 $build['list'] = [
  '#theme' => 'item list',
   '#items' => [],
 $build['list']['#items'][0] = [
  '#type' => 'markup',
   \label{thm:continuous} \mbox{'#markup'} => \mbox{$t$his->$t$('There were no product images to display.')}
 while ($item_count < $block_count && isset($image_data[$item_count])) {
   $file = File::load($image_data[$item_count]['target_id']);
   $link_text = [
    '#theme' => 'image_style',
    '#uri' => $file->getFileUri(),
    '#style_name' => 'product_thumbnail',
    '#alt' => $image_data[$item_count]['alt'],
   $options = [
    'attributes' => [
     'class' => [
      'use-ajax',
     'data-dialog-type' => 'modal',
     'data-dialog-options' => Json::encode([
       'width' => 700,
   \ url = Url::fromRoute('abc_prg.display_product_image', ['node' => \ product->nid->value, 'delta' => \ item_count]);
   $url->setOptions($options);
   $build['list']['#items'][$item_count] = [
    '#type' => 'markup',
    '#markup' => Link::fromTextAndUrl($link_text, $url)
     ->toString(),
 \label{library'} $$ build ['#attached'] ['library'] [] = 'core/drupal.dialog.ajax';
```

```
}
return $build;
}
```

One last item. Configuration expects a schema for things being saved. Here we create a .schema.yml in /config/schema and it looks like:

```
# Schema for the configuration files for my module.

block.settings.alchemy_block:
type: block_settings
label: 'Alchemy block'
mapping:
block_count:
type: integer
label: 'Block count'
```

Block display not updating after changing block content

From Nedcamp video on caching by Kelly Lucas, November 2018

In a twig template, if you just want to render one or more fields (instead of the entire node), Drupal may not be aware if the content has changed, and will sometimes show old cached content. To resolve this, define a view mode and call content | render and assign the result to a variable like this:

```
set blah = content|render
```

Be sure to surround the above code with curly brace and percentage sign delimeters. Unfortunately these don't always render correctly in this document so I've had to remove them for now.

Adding this render call will cause Drupal to render the content for that node, which will cause a check of the caches and make sure the most current content is rendered.

Then add your fields:

{content.field_one} etc.

Block Permission (blockAccess)

This code is taken from the Drupal core user_login_block (UserLoginBlock.php). It allows access to the block if the user is logged out and is not on the login or logout page. The access is cached based on the current route name and the user's current role being anonymous. If these are not passed, the access returned is forbidden and the block is not built.

```
use Drupall:currentUser();

$account = \Drupal::currentUser();

/**

* {@inheritdoc}

*/

protected function blockAccess(AccountInterface $account) {

$route_name = $this->routeMatch->getRouteName();

if ($account->isAnonymous() && lin_array($route_name, ['user.logout'])) {

return AccessResult::allowed()

->addCacheContexts(['route.name', 'user.roles:anonymous']);

}

return AccessResult::forbidden();

}
```

Another example from the Drupal core Copyright.php file:

Blocks shouldn't talk to the router, NodeRouteContext and friends should

While it is possible for blocks to talk to the router, you can't always count that they will be on a meaningful route i.e. are they being displayed on a node? So we should use context definition in the block annotation like this:

```
/**
 * Provides a 'Node Context Test' block.

*
 * @Block(
 * id = "node_block_test_context",
 * label = @Translation("Node Context Test"),
 * context_definitions = {
 * "node" = @ContextDefinition("entity:node", label = @Translation("Node"))
 * }
 *)
 */
```

This causes the block to be available only on various node pages (view, edit etc.). This can be changed:

```
* context_definitions = {
* "node" = @ContextDefinition("entity:node", label = @Translation("Node"),
* required = FALSE)
* }
```

The order of named options passed to ContextDefinition after the first argument does not matter.

Then in the block we check to make sure the user is viewing a node and that the user has view rsvplist permission. See the code below:

```
protected function blockAccess(AccountInterface $account) {

/** @var \Drupaf\Core\Plugin\Context\$node */

$cacheContext = $this->getContext(node');

/** @var \Drupaf\Core\Entity\Plugin\DataType\EntityAdapter $data */

$data = $cacheContext->getContextData();

/** @var \Drupaf\node\NodeInterface $node */

$node = $data->getValue();

if ($node) {

$nid = $node->id();

if (is_numeric($nid)) {

// See rsvp.permissions.yml for the permission string.

return AccessResult::allowedIfHasPermission($account, 'view rsvplist');

}

return AccessResult::forbidden();

}
```

More at https://drupal.stackexchange.com/questions/145823/how-do-i-get-the-current-node-id/314152#314152

Note. While this practice is not recommended, the RSVP module does have an example of a block talking to the router i.e. \noten \text{Drupal::routeMatch()} - see \frac{https://git.drupalcode.org/project/rsvp_module/-/blob/1.0.x/src/Plugin/Block/RSVPBlock.php} where the blockAccess() function grabs the node parameter and acts on it.

```
/**

* {@inheritdoc}

*/

public function blockAccess(AccountInterface Saccount) {

/** @var \DrupalInode\Entity\Node $node */

$node = \Drupal::routeMatch()->getParameter('node');

$nid = $node->nid->value;

/** @var \DrupalIvsvp_module\EnablerService $enabler */

$enabler = \Drupal::service('rsvp_module.enabler');

if(is_numeric($nid)) {

if($enabler->isEnabled($node)) {

return AccessResult::allowedlfHasPermission($account, 'view rsvp_module');

}

return AccessResult::forbidden();

}
```

Values returned by blockAccess()

Some options that can be returned from blockAccess() are:

```
return AccessResult::forbidden();
return AccessResult::allowed();
return AccessResult::allowedIf(TRUE);
```

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