flashvnn / **drupal-snippets**   Public

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drupal-snippets / README.md

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👥 **1** contributor

Drupal.t translate in Vue js

```
# Create Drupal.ts
export class Drupal {
  static t(str: string) {
    if ((window as any)?.Drupal) {
      return (window as any)?.Drupal.t(str);
    }
    return str;
  }
}

#in App.vue or other .vue files:

<script>
import {Drupal} from "~/lib/Drupal";

</script>

<template>
 <h1> Hello {{ Drupal.t('Drupal') }} </h1>
</template>
```

Node delete confirm form alter

```php
/**
 * Implements hook_form_BASE_FORM_ID_alter().
 */
function mymodule_form_node_confirm_form_alter(&$form, FormStateInterface $form_stat
  // Only need to alter the delete operation form.
  if ($form_state->getFormObject()->getOperation() !== 'delete') {
    return;
  }
  /** @var \Drupal\node\NodeInterface $node */
  $node = $form_state->getFormObject()->getEntity();
  if ($node->getType() === 'page') {
    // action with node page.
  }
}
```

Vue 3 Eventbus with Drupal

Install mitt module

```
npm i mitt
```

Create lib/EventBus.ts

```ts
import mitt from "mitt";
export default mitt()
```

Update main.ts

```ts
import { createApp } from 'vue'
import App from './App.vue'
import EventBus from "./lib/EventBus"

(window as any).EventBus = EventBus;

let app = createApp(App)
app.mount('#app')
```

Emit event in Vue component

```ts
<script lang="ts" setup>
import EventBus from "./../lib/EventBus"
const onClickHandle = () => {
 EventBus.emit("my_event", {id: 1});
}
```

Handler event in Drupal

```js
(function ($, Drupal) {

$(document).ready(function () {
    window.EventBus.on('my_event', function (data) {
      console.log(data);
    });
});

})(jQuery, Drupal);
```

Drupal render html div with attributes

```php
$build = [
      '#type' => 'html_tag',
      '#tag' => 'div',
      '#value' => 'CONTENT FOR DIV',
      '#attributes' => [
        'id' => 'my_div_id',
        'style' => 'display: none',
      ],
]
```

XDebug when use drush command

```
#Open command line and input bellow before call drush command

export XDEBUG_CONFIG="idekey=PHPSTORM"

## For run in docker
```

```
export PHP_IDE_CONFIG="serverName=devdomain.local"
```

Drush config location priority

```
//Referecen: https://github.com/drush-ops/drush/blob/9.6.0-
rc3/src/Config/ConfigLocator.php#L282
// first --> last
/drush/drush.yml
$siteRoot/drush/drush.yml
$siteRoot/docroot/sites/all/drush/drush.yml
```

Get local ip of system (example running in docker container)

```
$localIP = getHostByName(getHostName());
// Displaying the address
echo $localIP;
```

Fix Install php74-zip extension error on CentOS

```
pecl uninstall zip
pecl install zip
# if has error with zipconf.h
cp /usr/local/lib/libzip/include/zipconf.h /usr/local/include/zipconf.h
pecl install zip
```

Handler json data from javascript post

```
class MyController extends ControllerBase {
  public function handlerPost(Request $request) {
    $json = $request->getContent();
    $json = Json::decode($json);
```

```
    }
  }
```

Theme Drupal webform

Example create theme for webform id `contact`

Alter form and add webform theme function

```
/**
 * Implements hook_form_FORM_ID_alter().
 */
function mymodule_form_webform_submission_contact_add_form_alter(&$form, FormStateIn
  $form['#theme'] = ['webform_submission_contact_add_form'];
}

/**
 * Implements hook_theme().
 */
function mymodule_theme($existing, $type, $theme, $path) {
  return [
    'webform_submission_contact_add_form' => [
      'render element' => 'form',
    ],
  ];
}
```

Create twig template file `webform-submission-contact-add-form.html.twig`

```
{% if form.preview %}
  {# theme for preview page #}

  {# get value of text field #}
  {{ form.elements.name['#default_value'] }}

  {# get value of checkbox, radio options #}
  {% set options = form.elements.gender['#options'] %}
  {% set value = form.elements.gender['#default_value'] %}
  {{ options[value] }}


  {{ form.actions }}
{% else %}
```

```
   {# theme for input page #}
   {{ form.elements.name }}
   {{ form.actions }}
 {% endif %}
 {{ form.form_build_id }}
 {{ form.form_token }}
 {{ form.form_id }}
```

Easy way add template suggestion

```php
  /**
   * Suggestion based on attribute.
   *
   * @param string $base
   *    The base element.
   * @param array $suggestions
   *    The suggestions.
   * @param array $variables
   *    The variables.
   */
  function mytheme_theme_suggestions_twig_attribute(string $base, array &$suggestions,
    if (empty($variables['element'])) {
      return;
    }
    $element = $variables['element'];
    if (isset($element['#attributes']['data-twig-suggestion'])) {
      $template = $base . '__' . $element['#type'] . '__' . $element['#attributes']['d
      if (!in_array($template, $suggestions)) {
        $suggestions[] = $template;
      }
    }
  }

  /**
   * Implements hook_theme_suggestions_HOOK_alter() for textarea.
   */
  function mytheme_theme_suggestions_radios_alter(&$suggestions, $variables) {
    mytheme_theme_suggestions_twig_attribute('radios', $suggestions, $variables);
  }
  /**
   * Implements hook_theme_suggestions_HOOK_alter() for input.
   */
  function mytheme_theme_suggestions_input_alter(&$suggestions, $variables) {
    mytheme_theme_suggestions_twig_attribute('input', $suggestions, $variables);
  }
```

Add theme suggestion for webform button

```
/**
 * Implements hook_form_FORM_ID_alter().
 */
function mymodule_form_webform_submission_contact_add_form_alter(&$form, FormStateIn
  //...
  if (isset($form['actions']['preview'])) {
    $form['actions']['preview_prev']['#attributes']['data-twig-suggestion'] = 'webfc
  }
  if (isset($form['actions']['preview_prev'])) {
    $form['actions']['preview_prev']['#attributes']['data-twig-suggestion'] = 'webfc
  }
  if (isset($form['actions']['submit'])) {
   $form['actions']['submit']['#attributes']['data-twig-suggestion'] = 'webform__cont
  }
}
```

Now you can create template for button: input--submit--webform--contact--preview.html.twig input--submit--webform--contact--preview-prev.html.twig input--submit--webform--contact--submit.html.twig

Example template for input--submit--webform--contact--preview.html.twig

```
<button {{ attributes.addClass('bnt-preview') }}>
  <span>CUSTOM PREVIEW</span>
</button>
```

Override jsonapi output for field

```
https://medium.com/@chris.geelhoed/how-to-alter-json-responses-with-drupal-8s-
json-api-and-rest-web-service-7671f9c16658
services:
  MY_MODULE.typed_data:
    class: Drupal\kc_library\Normalizer\MyNormalizerClass
    tags:
      - { name: normalizer, priority: 10 }

<?php
namespace Drupal\MY_MODULE\Normalizer;
use Drupal\serialization\Normalizer\TypedDataNormalizer;
/**
 * {@inheritdoc}
```

```php
 */
class MyNormalizerClass extends TypedDataNormalizer {
/**
  * {@inheritdoc}
  */
  public function normalize($entity, $format = NULL, array $context = []) {
    $data = parent::normalize($entity, $format, $context);
    // transform your data here
    // You'll likely need to run some checks on the $entity or $data
    // variables and include conditionals so that only the items
    // you are interested in are altered
    return $data;
  }
}
```

jQuery update input value and triger Vue update

```js
$("#test").val("testing")[0].dispatchEvent(new Event('input'));
```

Drupal consle export content-type yaml config

```
drupal config:export:content:type --module=new_module --remove-uuid --remove-config-
# Example
drupal config:export:content:type --module=my_module --remove-uuid --remove-config-h
```

Javascript get and set properties by string

```js
/* Implementation of lodash.get function */
Object.getData = function (obj, key, def, p, undef) {
  key = key.split ? key.split('.') : key;
  for (p = 0; p < key.length; p++) {
    obj = obj ? obj[key[p]] : undef;
  }
  return obj === undef ? def : obj;
};

/* Implementation of lodash.set function */
Object.setData = function(obj, keys, val) {
  keys.split && (keys=keys.split('.'));
```

```javascript
      var i=0, l=keys.length, t=obj, x, k;
      for (; i < l;) {
        k = keys[i++];
        if (k === '__proto__' || k === 'constructor' || k === 'prototype') break;
        t = t[k] = (i === l) ? val : (typeof(x=t[k])===typeof(keys)) ? x : (keys[i]*0
      }
    };


    // Example:
    let obj = {
        a: {
            b: {
                c: 1,
                d: undefined,
                e: null
            }
        }
    };

    //use string dot notation for keys
    Object.getData(obj, 'a.b.c') === 1;

    //or use an array key
    Object.getData(obj, ['a', 'b', 'c']) == 1;


    var foo = { abc: 123 };
    Object.setData(foo, 'foo.bar', 'hello');
    // or: Object.setData(foo, ['foo', 'bar'], 'hello');
    console.log(foo);
    //=> {
    //=>   abc: 123,
    //=>   foo: { bar: 'hello' },
    //=> }
```

PHPSTORM

[Config PHPStorm for Drupal development](#)

Drupal NestedArray example:

```php
$data = [
    'container' =>
    [
```

```
            'products' => [
                'edges' => [
                    ['node' => ['title' => 'Node 1']],
                    ['node' => ['title' => 'Node 2']],
                ]
            ]
        ]
    ];
    // Get edges data
    $edges = NestedArray::getValue($data, ['container', 'products', 'edges']);

    // Get non existent data

    $taxonomy = NestedArray::getValue($data, ['container', 'products', 'taxonomy']);

    // $taxonomy is null

    // Set value for taxonomy

    NestedArray::setValue($data, ['container', 'products', 'taxonomy'], ['taxonomy1', 't
```

BaseFieldDefinition for Drupal double_field

```
    $fields['double_field'] = BaseFieldDefinition::create('double_field')
        ->setLabel("Select Options")
        ->setSettings([
          'first' => [
            'type' => 'string',
            'label' => t('Question'),
            'maxlength' => 255,
            'list' => FALSE,
            'required' => TRUE,
          ],
          'second' => [
            'type' => 'string',
            'label' => t('Answer'),
            'maxlength' => 255,
            'list' => FALSE,
            'required' => TRUE,
          ],
        ])
        ->setDisplayOptions('form', [
          'type' => 'double_field',
          'weight' => 3,
          'settings' => ['inline' => TRUE],
        ])
```

```
    ->setDisplayOptions('view', [
      'label' => 'hidden',
      'type' => 'double_field_unformatted_list',
      'weight' => 3,
    ])
    ->setDisplayConfigurable('form', TRUE)
    ->setDisplayConfigurable('view', TRUE)
    ->setCardinality(FieldStorageDefinitionInterface::CARDINALITY_UNLIMITED);
  ;
```

Config xdebug in vagrant

```
# config in php.ini or seprated xdebug.ini
[xdebug]
# config zend extension, can install with pecl install xdebug
zend_extension=/usr/lib/php/20190902/xdebug.so
xdebug.mode = debug
# set client host to window ip
xdebug.client_host=172.18.20.13
# client port. check phpstorm config for debug port
xdebug.client_port=9003

xdebug.idekey=PHPSTORM
```

Fix Vagrant ssl error

```
// Add this line
Vagrant.configure("2") do |config|
  config.vm.box_download_insecure =true
```

Drupal render entity or node field

```
  protected function renderEntityField(FieldableEntityInterface $entity, string $fie
    $display_options = EntityViewDisplay::collectRenderDisplay($entity, 'default')->
```

```
  $build = $entity->get($field)->view($display_options);
  if (isset($build['#theme'])) {
    unset($build['#theme']);
  }
  return \Drupal::service('renderer')->renderPlain($build);
}
```

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Drupal download remote image with http client

```
public function downloadImage(string $url, string $destination) {
  try {
    $result = $this->httpClient->get($url);
    if ($result->getStatusCode() == 200) {
      $tmp_file = $this->fileSystem->tempnam('temporary://', 'module_prefix_');
      $handle = fopen($tmp_file, 'w');
      fwrite($handle, $result->getBody());
      fclose($handle);
      if (is_file($tmp_file)) {
        $image_size = @getimagesize($tmp_file);
        if (empty($image_size)) {
          @unlink($tmp_file);
          return FALSE;
        }
        return $this->fileSystem->move($tmp_file, $destination, FileSystemInterfac
      }
    }
  } catch (\Exception $e) {
    $this->logger->error('Download image error: @url with message: @message', ['@u
    return FALSE;
  }
  return FALSE;
}
```

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Create new file entity

```
$file_data = [
  'uri' => $uri,
  'uid' => \Drupal::currentUser()->id(),
  'status' => FILE_STATUS_PERMANENT,
];
```

```php
$file = File::create($file_data);
$file->save();
```

Add admin route for custom entity

```php
class CustomEntityHtmlRouteProvider extends AdminHtmlRouteProvider {
    public function getRoutes(EntityTypeInterface $entity_type) {
      //...
          // Add admin route for all routes.
          $collection->addOptions(['_admin_route' => TRUE]);
      //...
    }
}
```

Ajax button with disable error message

```php
$form['ajax_button'] = [
  '#type' => 'button',
  '#is_button' => TRUE,
  '#executes_submit_callback' => FALSE, // Disable exec submit callback
  '#limit_validation_errors' => [], // Disable validate.
  '#value' => $this->t('Update'),
  '#ajax' => [
    'callback' => [self::class, 'ajaxCallback'],
    'disable-refocus' => FALSE,
    'wrapper' => 'contents__table',
  ],
];
```

Add current title to breadcrumb

```php
/**
 * Add current page to breadcrumb
 */
function THEME_NAME_preprocess_breadcrumb(&$variables) {
  if ($variables['breadcrumb']) {
    $request = \Drupal::request();
    $route_match = \Drupal::routeMatch();
    $page_title = \Drupal::service('title_resolver')->getTitle($request, $route_matc
    if (!empty($page_title)) {
```

```
      $variables['breadcrumb'][] = [
        'text' => $page_title
      ];
    }
  }
}
```

Javascript get nested property by string

```javascript
function getDescendantProp (obj, desc) {
  var arr = desc.split('.');
  while (arr.length && (obj = obj[arr.shift()]));
  return obj;
}
// Get property drupalSettings.my_module.data without need check drupalSettings.my
var data = getDescendantProp(drupalSettings, 'my_module.data');
console.log(data);
```

Get file url relative and absolute

```php
$file_entity = File::load(1);
$relative = $file_entity->createFileUrl(); // /sites/default/files/media/images/imag
$absolute = $file_entity->createFileUrl(false); // http://demosite.con/sites/default
```

Drupal twig sort by property

```twig
// Example sort taxonomy
{% set categories = categories|sort((a,b) => a.weight <=> b.weight) %}
```

Drupal render array with cache

```php
// Cache tags with nodes

$nodes = Node::loadMultiple($nids);
$cacheTags = [];
$nodeList = [];
```

```php
foreach ($nodes as $node) {
  $nodeList[] = $node->label();
  $cacheTags = Cache::mergeTags($cacheTags, $node->getCacheTags());
}
return [
  '#markup' => implode(', ', $nodeList),
  '#cache' => [
    'tags' => $cacheTags,
  ]
];

// Cache context
/* There are several others:
theme (vary by negotiated theme)
user.roles (vary by the combination of roles)
user.roles:anonymous (vary by whether the current user has the 'anonymous' role or n
languages (vary by all language types: interface, content …)
languages:language_interface (vary by interface language — LanguageInterface::TYPE_I
languages:language_content (vary by content language — LanguageInterface::TYPE_CONTE
url (vary by the entire URL)
url.query_args (vary by the entire given query string)
url.query_args:foo (vary by the ?foo query argument
/*

return [
  '#markup' => t('WeKnow is the coolest @time', ['@time' => time()]),
  '#cache' => [
    'contexts' => ['url.query_args'],
  ]
];

// Cache "max-age"
 return [
   '#markup' => t('Temporary by 10 seconds @time', ['@time' => time()]),
   '#cache' => [
     'max-age' => 10,
   ]
 ];
```

XDEBUG 3.0 config with PHPSTORM <= 2020.2

```
[xdebug]
zend_extension=xdebug.so
xdebug.mode = debug
xdebug.client_host = "127.0.0.1"
xdebug.client_port = 9000
```

```
xdebug.remote_connect_back = false
xdebug.var_display_max_depth = -1
xdebug.var_display_max_children = -1
xdebug.var_display_max_data = -1
```

Complete remove mysql (mariadb) server on ubuntu

```
sudo apt remove --purge mysql-server
sudo apt purge mysql-server
sudo apt purge mysql-server mysql-client mysql-common mysql-server-core-* mysql-clie
sudo rm -rf /etc/mysql /var/lib/mysql /var/log/mysql
```

Reinstall maridadb

```
sudo apt-get install mariadb-server
```

Add jQuery core to header tag

https://stackoverflow.com/questions/41059811/is-it-possible-to-force-drupal-8-core-jquery-to-go-to-the-header

in your THEME.libraries.yml

```yaml
global-styling:
  header: true
  dependencies:
    - core/jquery
```

Drupal disable https verify when working with insecure ssl website

```php
$settings['http_client_config'] = ['verify' => FALSE];
```

use multiple SSH private keys on one client

Edit/create file ~/.ssh/config

```
Host myshortname realname.example.com
    HostName realname.example.com
    IdentityFile ~/.ssh/realname_rsa # private key for realname
    User remoteusername

Host myother realname2.example.org
    HostName realname2.example.org
    IdentityFile ~/.ssh/realname2_rsa  # different private key for realname2
    User remoteusername
```

Then you can use the following to connect:

```
ssh myshortname

ssh myother
```

Fix twig chmod issue

Warning: chmod(): Operation not permitted in
Drupal\Component\PhpStorage\MTimeProtectedFastFileStorage

```
// Add in settings.php

$settings['php_storage']['twig']['directory'] = '/tmp/sites-caching/php';
$settings['php_storage']['twig']['secret'] = $settings['hash_salt'];
```

Drupal Drush as phar format

```
# Drush 8 phar (Support Drupal 7 & 8)
https://github.com/drush-ops/drush/releases/download/8.4.5/drush.phar

wget https://github.com/drush-ops/drush/releases/download/8.4.5/drush.phar
```
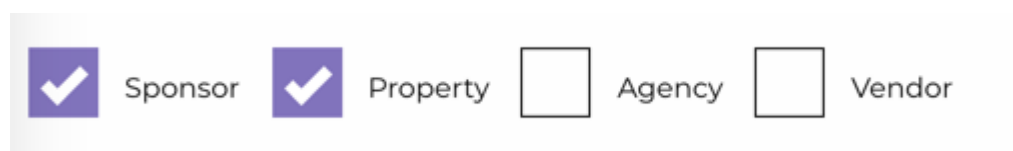
```
php drush.phar cr
```

Commit Changes displaying "Contents are identical" when pushing changes.

https://stackoverflow.com/questions/1580596/how-do-i-make-git-ignore-file-mode-chmod-changes

```
git config core.fileMode false
```

Styled checkbox


```css
.js-form-type-textfield, .js-form-type-select {
  margin-top: 10px;
  margin-bottom: 10px;

  label {
    font-weight: bold;
  }
}
.js-form-type-checkbox {
  display: block;
  position: relative;
}
.js-form-type-checkbox label {
  display: block;
  padding: 8px 0 12px 40px;
}

/*style and hide original checkbox*/
.js-form-type-checkbox input {
  height: 40px;
  left: 0;
  opacity: 0;
```

```css
    position: absolute;
    top: 0;
    width: 40px;
  }

  /*position new box*/
  .js-form-type-checkbox input + label::before {
    border: 1px solid;
    content: "";
    height: 35px;
    left: 0;
    position: absolute;
    top: 0;
    width: 35px;
  }

  /*create check symbol with pseudo element*/
  .js-form-type-checkbox input + label::after {
    content: "";
    border: 6px solid #fff;
    border-left: 0;
    border-top: 0;
    height: 22px;
    left: 12px;
    opacity: 0;
    position: absolute;
    top: 6px;
    transform: rotate(45deg);
    transition: opacity 0.2s ease-in-out;
    width: 12px;
  }

  /*reveal check for 'on' state*/
  .js-form-type-checkbox input:checked + label::after {
    opacity: 1;
  }

  .js-form-type-checkbox input:checked + label::before {
    background: $purple;
    border: 1px solid $purple;
  }
```

Use Docker install Postgres for Drupal

```
# Pull docker postgres
docker pull postgres
```

```
# Run postgres instance
docker run --name drupal-postgres -d -p 5432:5432 -e POSTGRES_PASSWORD=postgres post
# Exec docker
docker exec -it drupal-postgres bash
# Create database and user;
# Login to postgres command line
psql -U postgres
# Create db and user
create database drupal;
create user drupal with encrypted password 'drupal';
grant all privileges on database drupal to drupal;
# list
\l
# delete database
DROP DATABASE drupal;

# Logout
exit;
# Import database from outside
docker exec -i drupal-postgres psql --username drupal --password drupal drupal < ./d

#Export database
docker exec -i drupal-postgres pg_dump -U postgres -d  drupal > ./drupal.sql
```

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Making region content available to node templates in Drupal 8

```
/**
 * Implements hook_preprocess_node() for NODE document templates.
 */
function THEME_preprocess_node(&$variables) {
  // Allowed view modes
  $view_mode = $variables['view_mode']; // Retrieve view mode
  $allowed_view_modes = ['full']; // Array of allowed view modes (for performance so

  // If view mode is in allowed view modes list, pass to THEME_add_regions_to_node()
  if(in_array($view_mode, $allowed_view_modes)) {
    // Allowed regions (for performance so as to not execute for unneeded region)
    $allowed_regions = ['primary_content'];
    THEME_add_regions_to_node($allowed_regions, $variables);
  }
}

/**
 * THEME_add_regions_to_node
```

```php
  */

  function THEME_add_regions_to_node($allowed_regions, &$variables) {
    // Retrieve active theme
    $theme = \Drupal::theme()->getActiveTheme()->getName();

    // Retrieve theme regions
    $available_regions = system_region_list($theme, 'REGIONS_ALL');

    // Validate allowed regions with available regions
    $regions = array_intersect(array_keys($available_regions), $allowed_regions);

    // For each region
    foreach ($regions as $key => $region) {

      // Load region blocks
      $blocks = entity_load_multiple_by_properties('block', array('theme' => $theme, '

      // Sort 'em
      uasort($blocks, 'Drupal\block\Entity\Block::sort');

      // Capture viewable blocks and their settings to $build
      $build = array();
      foreach ($blocks as $key => $block) {
        if ($block->access('view')) {
          $build[$key] = entity_view($block, 'block');
        }
      }

      // Add build to region
      $variables[$region] = $build;
    }
  }
```

Use in twig template, example node--node_type.html.twig

```
{{ primary_content }}
```

PHPCS disable

https://www.axelerant.com/resources/team-blog/php_codesniffer-ignoring-standards

```php
<?php
// @codingStandardsIgnoreStart
$times = array(
 60 * 60 * 12, // 12 hours.
 60 * 60 * 24, // 1 day.
 60 * 60 * 24 * 4, // 4 days.
 60 * 60 * 24 * 7, // 1 week.
 60 * 60 * 24 * 7 * 2, // 2 weeks.
 60 * 60 * 24 * 7 * 3, // 3 weeks.
 60 * 60 * 24 * 30, // 1 month.
);
// @codingStandardsIgnoreEnd
```

Formattable Markup without translate

```
return new FormattableMarkup("Welcome my @site", [
  '@site' => "Drupal website",
]);
```

Custom date format with Drupal service

```php
<?php

\Drupal::service('date.formatter')->format($timespan, 'custom', 'Y/n/j H:i');
```

Add SSI include for apache

```
// Ubuntu, add module include for apache
sudo a2enmod include
sudo a2enmod include.load



<VirtualHost *:80>
        ServerName localhost
        ServerAdmin webmaster@localhost

        DocumentRoot /var/www/html
        <Directory /var/www/html>
                Options +Includes
```

```
                AddType text/html .html
                AddOutputFilter INCLUDES .html
                AllowOverride All
                Require all granted

        </Directory>

        # For most configuration files from conf-available/, which are
        # enabled or disabled at a global level, it is possible to
        # include a line for only one particular virtual host. For example the
        # following line enables the CGI configuration for this host only
        # after it has been globally disabled with "a2disconf".
        #Include conf-available/serve-cgi-bin.conf
</VirtualHost>
```

Mysql windows Linux SubSystem

```
## Add new mysql user to allow access from Windows host

CREATE USER 'mysql'@'localhost' IDENTIFIED BY 'mysql';
GRANT ALL ON mysql.* TO 'mysql'@'localhost';

## Remove password validation policy

uninstall plugin validate_password;


## GRANT ALL PRIVILEGES for user.

GRANT ALL PRIVILEGES ON *.* TO 'mysql'@'localhost';
```

Override javscript function Drupal before request ajax

```javascript
(function($, Drupal, drupalSettings) {
  var _beforeSend = Drupal.Ajax.prototype.beforeSend;
  Drupal.Ajax.prototype.beforeSend = function(xmlhttprequest, options) {
    if(isMatchUrl(options.url)) {
      // Override data here
    }
```

```
        _beforeSend.call(this, xmlhttprequest, options);
    };
})(jQuery, Drupal, drupalSettings);
```

Update Drupal module to Drupal 9

Update module.info.yml
Add config core_version_requirement: ^8 || ^9
Example

```
name: Entity Usage
type: module
description: Track usage of entities referenced by other entities.
core_version_requirement: ^8.8 || ^9
configure: entity_usage.settings.form
package: Other
```

Remove "drupal/core" in module's composer.json

Update config_export for ConfigEntity

core/modules/system/src/Entity/Action.php

```
*   config_export = {
*     "id",
*     "label",
*     "type",
*     "plugin",
*     "configuration",
*   }
```

Drupal alter plugin information and definition

https://medium.com/@djphenaproxima/how-to-bend-drupal-8-plugins-to-your-nefarious-will-94da0c31f095

```
<?php
// Check plugin manager has alterInfo
```

```php
public function __construct(\Traversable $namespaces, CacheBackendInterface $cache_b
    parent::__construct('Plugin/Filter', $namespaces, $module_handler, 'Drupal\filter\
    $this->alterInfo('filter_info');
    $this->setCacheBackend($cache_backend, 'filter_plugins');
}

// Define function alter information

function mymodule_filter_info_alter(array &$definitions) {
    // Time to get schwifty in here
}
```

Install Drupal with composer

```
composer create-project drupal/recommended-project my_site_name_dir
```

Install custom module with composer

```
cd my_site_name_dir
chmod -R 775 web/sites/default
composer require drupal/admin_toolbar
```

Clear page cache when change attach library

```php
$tags[] = 'library_info';
Cache::invalidateTags($tags);
```

Fix Install Drupal console error

- Download latest composer.phar from https://getcomposer.org/download/
- Move composer.phar to Drupal root directory
- Remove folder vendor and composer.lock
- Add "drupal/console": "~1.0" to composer.json
- Run command php composer.phar install

Find sub dirs of directory

```php
$path = $this->fileSystem->realpath($dir);
$path = rtrim($path, '/') . '/';
$dirs = array_filter(glob($path . '*'), 'is_dir');
```

Override Drupal Views controller

```
// https://steemit.com/drupal/@develcuy/adding-custom-contextual-links-to-a-
views-page-in-drupal-8
```

Safe url data transfer from Javascript to Drupal

```javascript
Drupal.safe_encode = function(element) {
  var encode = encodeURIComponent(JSON.stringify(element));
  var base64 = Base64.encode(encode);
  base64 = base64.replace('/', '_');
  base64 = base64.replace('+', '-');
  return base64;
};
var base64 = Drupal.safe_encode(object);
var url = Drupal.url('module-url?component_data='+ base64);
```

```php
function getComponentData() {
    $component_data = \Drupal::request()->query->get('component_data');
    $payload = str_replace('_', '/', $component_data);
    $payload = str_replace('-', '+', $payload);
    $payload = base64_decode($payload);
    $json = urldecode($payload);
    $json = Json::decode($json);
    return $json;
}
```

Debug email with Drupal

Install module: https://www.drupal.org/project/devel_mail_logger

Add setting to file sites/default/settings.php

```php
$config['system.mail']['interface']['default'] = 'devel_mail_logger';
```

View email logged with url: admin/reports/devel_mail_logger

Drupal schema type for config

https://www.drupal.org/docs/8/api/configuration-api/configuration-schemametadata#types

```yaml
# Undefined type used by the system to assign to elements at any level where
# configuration schema is not defined. Using explicitly has the same effect as
# not defining schema, so there is no point in doing that.
undefined:
  label: 'Undefined'
  class: '\Drupal\Core\Config\Schema\Undefined'

# Explicit type to use when no data typing is possible. Instead of using this
# type, we strongly suggest you use configuration structures that can be
# described with other structural elements of schema, and describe your schema
# with those elements.
ignore:
  label: 'Ignore'
  class: '\Drupal\Core\Config\Schema\Ignore'

# Basic scalar data types from typed data.
boolean:
  label: 'Boolean'
  class: '\Drupal\Core\TypedData\Plugin\DataType\BooleanData'
email:
  label: 'Email'
  class: '\Drupal\Core\TypedData\Plugin\DataType\Email'
integer:
  label: 'Integer'
  class: '\Drupal\Core\TypedData\Plugin\DataType\IntegerData'
float:
  label: 'Float'
  class: '\Drupal\Core\TypedData\Plugin\DataType\FloatData'
string:
  label: 'String'
  class: '\Drupal\Core\TypedData\Plugin\DataType\StringData'
uri:
  label: 'Uri'
  class: '\Drupal\Core\TypedData\Plugin\DataType\Uri'
```

```yaml
# Container data types for lists with known and unknown keys.
mapping:
  label: Mapping
  class: '\Drupal\Core\Config\Schema\Mapping'
  definition_class: '\Drupal\Core\TypedData\MapDataDefinition'
sequence:
  label: Sequence
  class: '\Drupal\Core\Config\Schema\Sequence'
  definition_class: '\Drupal\Core\TypedData\ListDataDefinition'


# Human readable string that must be plain text and editable with a text field.
label:
  type: string
  label: 'Label'
  translatable: true

# Internal Drupal path
path:
  type: string
  label: 'Path'

# Human readable string that can contain multiple lines of text or HTML.
text:
  type: string
  label: 'Text'
  translatable: true

# PHP Date format string that is translatable.
date_format:
  type: string
  label: 'Date format'
  translatable: true
  translation context: 'PHP date format'

# HTML color value.
color_hex:
  type: string
  label: 'Color'


  Mail text with subject and body parts.
mail:
  type: mapping
  label: 'Mail'
  mapping:
    subject:
      type: label
```

```
      label: 'Subject'
    body:
      type: text
      label: 'Body'
```

Drupal sort entity, config entity has property weight

```php
// ComponentCategory is Config Entity.

$categories = ComponentCategory::loadMultiple();
uasort($categories, [ComponentCategory::class, 'sort']);
```

Drupal display date format with timezone

```php
$node = Node::load(2100);
$start_date = $node->field_date->start_date;
$formatted = \Drupal::service('date.formatter')->format($start_date->getTimestamp(),
```

Description in radio button option value

```php
$pane_form['subscription_payment_type'] = [
    '#type' => 'radios',
    '#title_display' => 'hidden',
    '#options' => [
      'digital' => $this->t('Digital signature'),
      'paper' => $this->t('Paper form'),
    ],
    'digital' => [
      '#description' => $this->t('(E-identification or BankID)'),
    ],
    '#default_value' => 'digital',
  ];
```

How to use entity_autcomplete Field #type in drupal 8

```php
// Autocomplete for node
$form['node'] = array(
  '#type' => 'entity_autocomplete',
  '#title' => $this->t('Entity autocomplete (using core module "EntityAutocomplete")
  '#target_type' => 'node',
  '#selection_settings' => array(
    'target_bundles' => array('article'),
  ),
);

// Autocomplete for user
$form['field_patient'] = array(
    '#type' => 'entity_autocomplete',
    '#title' => $this->t('Patients'),
    '#target_type' => 'user',
    '#selection_settings' => [
      'include_anonymous' => FALSE,
      'filter' => ['role' => ['patient' => 'patient']],
    ],
    '#required' => TRUE,
    '#default_value' => $node ? $node->field_patient->entity : NULL,
  );
```

Render exposed filter of a views in Drupal 8

http://www.drupalsharing.com/code-snippets/render-exposed-filter-views-drupal-8

```php
$build = [];
$view_id = 'search';
$display_id = 'block';
$view = Views::getView($view_id);
if ($view) {
  $view->setDisplay($display_id);
  $view->initHandlers();
  $form_state = (new FormState())
    ->setStorage([
      'view' => $view,
      'display' => &$view->display_handler->display,
      'rerender' => TRUE,
    ])
    ->setMethod('get')
    ->setAlwaysProcess()
```

```
  ->disableRedirect();
$form_state->set('rerender', NULL);
$form_state->setCached(FALSE);
$build[] = $this->formBuilder->buildForm('\Drupal\views\Form\ViewsExposedForm', $f
```

Drupal using hidden field it can update value by javascript

```
$form['hidden_data'] = ['#type' => 'hidden', '#default_value' => 'text'];
```

Render exposed filter of a views in Drupal 8

http://www.drupalsharing.com/code-snippets/render-exposed-filter-views-drupal-8

```
$build = [];
$view_id = 'search';
$display_id = 'block';
$view = Views::getView($view_id);
if ($view) {
  $view->setDisplay($display_id);
  $view->initHandlers();
  $form_state = (new FormState())
    ->setStorage([
      'view' => $view,
      'display' => &$view->display_handler->display,
      'rerender' => TRUE,
    ])
    ->setMethod('get')
    ->setAlwaysProcess()
    ->disableRedirect();
  $form_state->set('rerender', NULL);
  $form_state->setCached(FALSE);
  $build[] = $this->formBuilder->buildForm('\Drupal\views\Form\ViewsExposedForm', $f
```

Drupal display iframe with form api

```
  $form['preview'] = [
    '#type' => 'inline_template',
    '#template' => '<iframe width="100%" height="315" src="{{url}}" frameborder="0
    '#context' => [
```

```
        'url' => 'https://www.youtube.com/embed/7TF00hJI78Y',
      ],
    ];
```

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Drupal load all node view mode

```
$entity_type = 'node';
$view_modes_data['default'] = $this->t('Drupal view default');

$view_modes = \Drupal::entityQuery('entity_view_mode')
  ->condition('targetEntityType', $entity_type)
  ->execute();
foreach ($view_modes as $view_mode) {
  $view_mode_entity = \Drupal::entityTypeManager()
    ->getStorage('entity_view_mode')
    ->load($view_mode);
  try {
    $id = explode('.', $view_mode)[1];
    $view_modes_data[$id] = $view_mode_entity->label();
  } catch (\Exception $e) {}
}
```

Drupal load all blocks

```
$blockManager = \Drupal::service('plugin.manager.block');

$contextRepository = \Drupal::service('context.repository');

// Get blocks definition

$definitions = $blockManager->getDefinitionsForContexts($contextRepository->getAvail
$blocks_data = [];
foreach ($definitions as $block_id => $block) {
  $block_id !== 'broken' && $blocks_data[$block_id] = $block['admin_label'];
}

$print_r($blocks_data);
```

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Fix drupalSettings load error

Check missing closed div in page--*.html.twig

Drupal disable viewsroll top

Disable for all view with javascript

```
Drupal.behaviors.viewsScrollOff = {
    attach: function () {

      /* Views Ajax Content Load Autoscroll Feature Disabled */
      Drupal.AjaxCommands.prototype.viewsScrollTop = null;
    }
  };
```

Disable for special view id

```
function YOURMODULE_ajax_render_alter(array &$data) {
  foreach ($data as $key => &$command) {
    if ($command['command'] === 'viewsScrollTop') {
      $data_json = Json::encode($data);
      if (strpos($data_json, 'YOUR_VIEW_ID') !== FALSE) {
        unset($data[$key]);
      }
      break;
    }
  }
}
```

Drupal sort array by weight

```
$tests = [
  [
    'name' => 'Item 2',
    'weight' => 2,
  ],
  [
    'name' => 'Item 1',
    'weight' => 1,
  ],
];
```

```php
uasort($tests, ['Drupal\Component\Utility\SortArray', 'sortByWeightElement']);
var_dump($tests);
// value of tests
$tests = [
  [
    'name' => 'Item 1',
    'weight' => 1,
  ],
  [
    'name' => 'Item 2',
    'weight' => 2,
  ],
];
```

Drupal sort array by weight property, used in Drupal form

```php
$tests = [
  [
    'name' => 'Item 2',
    '#weight' => 2,
  ],
  [
    'name' => 'Item 1',
    'weight' => 1,
  ],
];
uasort($tests, ['Drupal\Component\Utility\SortArray', 'sortByWeightProperty']);
var_dump($tests);
// value of tests
$tests = [
  [
    'name' => 'Item 1',
    '#weight' => 1,
  ],
  [
    'name' => 'Item 2',
    '#weight' => 2,
  ],
];
```

Call Drupal dialog off canvas with Javascript

```javascript
var ajax = new Drupal.Ajax(false, false, {
  url: '/path-to-drupal-page',
  submit: { // custom post data
    dialogOptions: {
      width: '40%',
      dialogClass: 'ui-dialog-off-canvas line-link-off-canvas'
    },
    yourdata: {name:'OffCanvas'}
  },
  dialogType : 'dialog.off_canvas'
});
ajax.execute().done(function () {});
```

Drupal entity Query example

```php
// Common use of query
// user
$query = \Drupal::entityQuery('user');
// node
$query = \Drupal::entityQuery('node');
// taxonomy
$query = \Drupal::entityQuery('taxonomy_term');

// Load all active users
$query = \Drupal::entityQuery('user');
$query->condition('status', 1);
$users_ids = $query->execute();
$users = User::loadMultiple($users_ids);

// Load with multiple condition
$query = \Drupal::entityQuery('user');
$query->condition('field_interests', $interests, 'IN');
$query->condition('field_birthday', $min_date->format('Y-m-d'), '<');
$query->condition('field_birthday', $max_date->format('Y-m-d'), '>');
$profils_similaires = $query->execute();
$users = User::loadMultiple($profils_similaires);

// Advanced usage with OR condition
$query = \Drupal::entityQuery('user');

$condition_or = $query->orConditionGroup();
$condtion_or->condition('field_pinned',1);
$condition_or->condition('field_interests', $interests, 'IN');
```

```php
$query->condition($condition_or);
$profils_similaires = $query->execute();
$users = User::loadMultiple($profils_similaires);

// AND OR Conditons
$query = \Drupal::entityQuery('user');

$condition_or = $query->orConditionGroup();
$condition_or->condition('field_pinned',1);

$condition_and = $query->andConditionGroup();

$condition_and->condition('field_interests', $interests, 'IN');
$condition_and->condition('field_birthday', $min_date->format('Y-m-d'), '<');
$condition_and->condition('field_birthday', $max_date->format('Y-m-d'), '>');

$condition_or->condition($condition_and);
$query->condition($condition_or);
$profils_similaires = $query->execute();
$users = User::loadMultiple($profils_similaires);


// Load node by type = product
$query = \Drupal::entityQuery('node');
$query->condition('type', 'produit');
// Condition with user id=1
$query->condition('uid', 1);
// zipcode LIKE 12%
$query->condition('field_adresse_zipcode', substr($code_postal, 0, 2).'%', 'LIKE');
$node_ids = $query->execute();
$nodes = Node::loadMultiple($node_ids);


// Query range

// 20 résultats sans en passer aucun (0)
$query->range(0, 20);

// 20 résultats en passant les 10 premiers (0)
$query->range(10, 20);


// Query sort
$query->sort('created', 'ASC'); //ASC or DESC

// Field sort
$query->sort('field_birthday', 'ASC');
```

```
// count

$query = \Drupal::entityQuery('node');
$query->condition('type', 'produit');
$nb_resultats = $query->count()->execute();
```

Load all taxonomy of category

```
// Use load tree
$vid = 'vocabulary_name';
$terms =\Drupal::entityTypeManager()->getStorage('taxonomy_term')->loadTree($vid);
foreach ($terms as $term) {
 $term_data[] = array(
   'id' => $term->tid,
   'name' => $term->name
 );
}

// Use entity query with sort condition
$vocabulary_name = 'YOUR_VOCABULARY_NAME'; //name of your vocabulary
$query = \Drupal::entityQuery('taxonomy_term');
$query->condition('vid', $vocabulary_name);
$query->sort('weight');
$tids = $query->execute();
$terms = Term::loadMultiple($tids);
```

Drupal check current page is node detail page

```
$route_match = \Drupal::routeMatch();
if ($route_match->getRouteName() == 'entity.node.canonical') {
  return true;
}
```

Drupal route examples

```
// Get current route name
\Drupal::routeMatch()->getRouteName();
// Node detail: entity.node.canonical
// Node preview: entity.node.preview
```

```
// Current path
$current_path = \Drupal::service('path.current')->getPath();
// /about
```

Drupal show page not found 404 and page access AccessDenie

```
// 404
if($condition){
  throw new \Symfony\Component\HttpKernel\Exception\NotFoundHttpException();
}

// 403
if($condition){
  throw new \Symfony\Component\HttpKernel\Exception\AccessDeniedHttpException();
}
```

Drupal 8 - Creating handler request event and custom redirect using Event Subscriber

https://joehuggans.co.uk/article/drupal-8-creating-custom-redirect-using-event-subscriber

Drupal handler response event

https://www.chapterthree.com/blog/how-to-register-event-subscriber-drupal8

Structure for the example module.

```
my_event_subscriber/
  - my_event_subscriber.info.yml
  - my_event_subscriber.services.yml
  - src/
    - EventSubscriber/
      - MyEventSubscriber.php
```

File: my_event_subscriber.info.yml

```yaml
    name: Register an Event Subscriber
    type: module
    description: 'Example: How to Register an Event Subscriber in Drupal 8'
    core: 8.x
    package: Other
```

File: my_event_subscriber.services.yml

```yaml
    services:
      my_event_subscriber:
        class: '\Drupal\my_event_subscriber\EventSubscriber\MyEventSubscriber'
        tags:
          - { name: 'event_subscriber' }
```

File: src/EventSubscriber/MyEventSubscriber.php

```php
    /**
     * @file
     * Contains \Drupal\my_event_subscriber\EventSubscriber\MyEventSubscriber.
     */

    namespace Drupal\my_event_subscriber\EventSubscriber;

    use Symfony\Component\HttpKernel\KernelEvents;
    use Symfony\Component\HttpKernel\Event\FilterResponseEvent;
    use Symfony\Component\EventDispatcher\EventSubscriberInterface;

    /**
     * Event Subscriber MyEventSubscriber.
     */
    class MyEventSubscriber implements EventSubscriberInterface {

      /**
       * Code that should be triggered on event specified
       */
      public function onRespond(FilterResponseEvent $event) {
        // The RESPONSE event occurs once a response was created for replying to a reque
        // For example you could override or add extra HTTP headers in here
        $response = $event->getResponse();
        $response->headers->set('X-Custom-Header', 'MyValue');
      }

      /**
       * {@inheritdoc}
       */
```

```php
  public static function getSubscribedEvents() {
    // For this example I am using KernelEvents constants (see below a full list).
    $events[KernelEvents::RESPONSE][] = ['onRespond'];
    return $events;
  }
```

≔   2989 lines (2342 sloc) │ 73.1 KB   ...

Here is a list of KernelEvents constants:

```php
KernelEvents::CONTROLLER; // The CONTROLLER event occurs once a controller was found
KernelEvents::EXCEPTION; // The EXCEPTION event occurs when an uncaught exception ap
KernelEvents::FINISH_REQUEST; //The FINISH_REQUEST event occurs when a response was
KernelEvents::REQUEST; // The REQUEST event occurs at the very beginning of request
KernelEvents::RESPONSE; // The RESPONSE event occurs once a response was created for
KernelEvents::TERMINATE; // The TERMINATE event occurs once a response was sent.
KernelEvents::VIEW; // The VIEW event occurs when the return value of a controller i
```

Drupal post. get with Guzzle library

https://drupalize.me/blog/201512/speak-http-drupal-httpclient

```php
  // GET
  $client = \Drupal::httpClient();
  $request = $client->get('http://demo.ckan.org/api/3/action/package_list');
  $response = $request->getBody();

  // GET data with query parameter
  $client->request('GET', 'http://httpbin.org', [
      'query' => ['foo' => 'bar']
  ]);

  // POST
  $client = \Drupal::httpClient();
  $request = $client->post('http://demo.ckan.org/api/3/action/group_list', [
    'json' => [
      'id'=> 'data-explorer'
    ]
  ]);
  $response = json_decode($request->getBody());

  // post form param
  $response = $client->request('POST', 'http://httpbin.org/post', [
```

```php
      'form_params' => [
          'field_name' => 'abc',
          'other_field' => '123',
          'nested_field' => [
              'nested' => 'hello'
          ]
      ]
  ]);

// HTTP basic authentication
  $client = \Drupal::httpClient();
  $request = $client->get('https://api.github.com/user', [
    'auth' => ['username','password']
  ]);
  $response = $request->getBody();

// Exception handling

  $client = \Drupal::httpClient();

  try {
    $response = $client->get('http://demo.ckan.org/api/3/action/package_list');
    $data = $response->getBody();
  }
  catch (RequestException $e) {
    watchdog_exception('my_module', $e->getMessage());
  }
```

Override all CSS from a library except one file

```
parent/parent-lib: false #removes the whole parent library

parent/parent-lib:
  css:
    css-file.css #allows you to bring back in just the file you want.
```

Twig Save render array as variable

```
{% set variable_name %}
  {% for item in national_office_address %}
    {{ item.address_line1 }}
    {{ item.postal_code }}
    {{ item.country_code }}
```

```
      {% endfor %}
    {% endset %}
```

Add active class to link has parent url

```javascript
// Example current link: example.dev/category/subpage
// Request add active class for link with url example.dev/category

$(function(){
    var current = location.pathname;
    $('#nav li a').each(function(){
        var $this = $(this);
        // if the current path is like this link, make it active
        if($this.attr('href').indexOf(current) !== -1){
            $this.addClass('active');
        }
    })
})
```

Open node preview in a new tab

```javascript
jQuery('#edit-preview').on('mouseover', function(e){
  jQuery('.node-form').attr('target', '_blank');
});
jQuery('#edit-preview').on('mouseout', function(e){
  jQuery('.node-form').removeAttr('target');
});
jQuery('#edit-preview').on('click', function(e){
  jQuery('.node-form').attr('data-drupal-form-submit-last', '');
});
```

Theming Views in Drupal 8 with custom templates

https://jasoncote.co/theme-drupal-8-view-with-custom-templates

```
views-view--[view name]--[view display].html.twig

// Example
```

```
views-view--taxonomy--page.html.twig
```

Drupal add/change header

```php
use Symfony\Component\HttpFoundation\Response;
$response = new Response();
$response->headers->set('Content-Type', 'text/csv; utf-8');
```

Drupal custom field display for REST and JSON API

https://medium.com/@chris.geelhoed/how-to-alter-json-responses-with-drupal-8s-json-api-and-rest-web-service-7671f9c16658

Drupal override replace library js css by code

http://www.monymirza.com/blog/drupal-8x-hooklibraryinfoalter-usage-example

Example library defined:

```yaml
some-lib:
  header: true
  js:
    js/jsfile.min.js: {  }
```

Replace with other js file

```php
function MYMODULE_library_info_alter(&$libraries, $extension) {
  if (CONDITION) {
      $alt = ['/' . drupal_get_path('module', 'MYMODULE') . '/js/newjsfile.js' => []
      $l['some-lib']['js'] = $alt;
  }
}
```

Drupal replace library of core and other module

https://drupal.stackexchange.com/questions/248131/how-do-i-use-a-jquery-version-different-from-the-default-one-used-by-core

Add your custom jQuery library in your **mytheme.libraries.yml**:

```
jquery-custom:
  remote: https://github.com/jquery/jquery
  version: "2.2.4"
  license:
    name: MIT
    url: https://github.com/jquery/jquery/blob/2.2.4/LICENSE.txt
    gpl-compatible: true
  js:
    js/jquery-2.2.4.min.js: { minified: true, weight: -20 }
```

Then override the core jQuery library in your **mytheme.info.yml**:

```
libraries-override:
  # Replace an entire library.
  core/jquery: mytheme/jquery-custom
```

Drupal CSV BOM encoding for languages (Japanese, Hebrew ...)

https://csv.thephpleague.com/9.0/interoperability/encoding/

```php
use League\Csv\Reader;

$reader = Reader::createFromPath('/path/to/my/file.csv', 'r');
//let's set the output BOM
$reader->setOutputBOM(Reader::BOM_UTF8);
//let's convert the incoming data from iso-88959-15 to utf-8
$reader->addStreamFilter('convert.iconv.ISO-8859-15/UTF-8');
//BOM detected and adjusted for the output
echo $reader->getContent();
```

Drupal inline twig template

https://api.drupal.org/api/drupal/core%21lib%21Drupal%21Core%21Render%21Element%21InlineTemplate.php/class/InlineTemplate/8.2.x

```
$build['hello'] = [
  '#type' => 'inline_template',
  '#template' => "{% trans %} Hello {% endtrans %} <strong>{{name}}</strong>",
  '#context' => [
    'name' => $name,
  ],
];
```

Command line remove uuid of yml file

```
sed -i '/uuid/d' ./*.yml
```

Query for entities with language in Drupal 8

```
$langcode = \Drupal::languageManager()->getCurrentLanguage(\Drupal\Core\Language\Lan
$query = \Drupal::entityQuery('node');
$query->condition('status', 1);
$query->condition('type', 'page');
$query->condition('langcode', $langcode);
$ids = $query->execute();
```

Query for entities using dates in Drupal 8

https://stefvanlooveren.me/index.php/blog/entityquery-nodes-date-field-drupal-8

```
use Drupal\Core\Datetime\DrupalDateTime;

$weekAgo = new DrupalDateTime('-7 days');
$weekAgo = $weekAgo->format(\Drupal\datetime\Plugin\Field\FieldType\DateTimeItemInte

$query = \Drupal::entityQuery('node');
$query->condition('type', 'page');
$query->condition('status', 1);
```

```
$query->condition('field_date', $weekAgo, '>=');
$results = $query->execute();
```

◄   ▶

Drupal send file/image response

https://ourcodeworld.com/articles/read/329/how-to-send-a-file-as-response-from-a-controller-in-symfony-3

Remove file from Git after add to gitignore

https://eric.blog/2014/05/11/remove-files-from-git-addingupdating-gitignore/

```
git rm --cached <file>
```

Add node, paragraph template in module

```
/**
 * Implements hook_theme().
 */
function MODULENAME_theme() {
    $theme['paragraph__MODULE_NAME__TYPE'] = [
        'base hook' => 'paragraph'
    ];
    return $theme;
}

/**
 * Implements HOOK_theme_suggestions_HOOK_alter().
 */
function MODULENAME_theme_suggestions_paragraph_alter(&$suggestions, $variables){
    $entity             = $variables['elements']['#paragraph'];
    $sanitized_view_mode = strtr($variables['elements']['#view_mode'], '.', '_');
    $type               = $entity->getType();

    if($type == TYPE) {
        $suggestions[] = 'paragraph__MODULENAME__' . $type;
        $suggestions[] = 'paragraph__MODULENAME__' . $type . '__' . $sanitized_view_
```

```
        }
    }
```

Working with database

```
// simple query
$database = \Drupal::database();
$query = $database->query("SELECT id, example FROM {mytable}");
$result = $query->fetchAll();

// Fetch all as Array
$result = $query->fetchAll(PDO::FETCH_ASSOC);

// query with place holder
$query = $database->query("SELECT id, example FROM {mytable} WHERE created > :create
    ':created' => REQUEST_TIME - 3600,
]);
```

https://drupaloutsourcing.com/blog/work-database-drupal-8

```
#  1.The simplest sample with condition
$query = \ Drupal :: database ()->select('node_field_data', 'nfd');
$query->fields('nfd', ['uid', 'title']);
$query->condition('nfd.nid', 1);
$result = $query->execute()->fetchAll ();



# 2. Selection of one value
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->addField('nfd', 'title');
$query->condition('nfd.nid', 1);
$result = $query->execute ()->fetchField ();



# 3. Sampling of the first record
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->fields('nfd', ['nid', 'title']);
$query->condition('nfd.type', 'article');
$result = $query->execute()->fetchAssoc ();
```

```
#  4. Selection of the first column as a simple array
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->addField('nfd', 'title');
$query->condition('nfd.type', 'article');
$result = $query->execute()->fetchCol ();



#  5. Combining the tables in the sample
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->addField('nfd', 'title');
$query->addField('ufd', 'name');
$query->join ('users_field_data', 'ufd', 'ufd.uid = nfd.uid');
$query->condition('nfd.type', 'article');
$result = $query->execute()->fetchAll ();



#  6.Selecting a certain range of records
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->fields('nfd', ['nid', 'title']);
$query->condition('nfd.type', 'article');
$query->range (0, 10);
$result = $query->execute()->fetchAll ();



# 7. Using the OR conditions in the sample
$condition_or = new \ Drupal \ Core \ Database \ Query \ Condition('OR');
$condition_or->condition('nfd.nid', 5);
$condition_or->condition('nfd.nid', 7);
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->fields('nfd', ['nid', 'title']);
$query->condition($ condition_or);
$result = $query->execute()->fetchAll ();



#  8. Counting the number of records in the sample
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->fields('nfd', ['nid', 'title']);
$query->condition('nfd.type', 'article');
$result = $query->countQuery ()->execute()->fetchField ();



# 9. Checking values for NULL
$query = \ Drupal :: database ()->select ('example', 'e');
$query->fields('e');
$query->isNull ('e.field_null');
```

```php
$query->isNotNull ('e.field_not_null');
$result = $query->execute()->fetchAll ();



# 10. Application of complex expressions in the sample
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->fields('nfd', ['nid', 'title']);
$query->addExpression ("DATE_FORMAT (FROM_UNIXTIME (nfd.created), '% e% b%
Y')", 'node_created');
$result = $query->execute()->fetchAll ();



#  11. Grouping of sampling records
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->addField('nfd', 'type');
$query->addExpression ('COUNT (*)', 'count');
$query->groupBy ('nfd.type');
$result = $query->execute()->fetchAll ();



#  12. Applying complex conditions in a query
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->fields('nfd', ['nid', 'title', 'type']);
$query->where ('DAY (FROM_UNIXTIME (nfd.created)) =: day', [': day' => 7]);
$result = $query->execute()->fetchAll ();



# 13. Sort selected records
$query = \ Drupal :: database ()->select ('node_field_data', 'nfd');
$query->fields('nfd', ['nid', 'title', 'type']);
$query->orderBy ('nfd.title');
$result = $query->execute()->fetchAll ();
```

- Update records

```php
$query = \ Drupal :: database ()->update ('example');
$query->fields([
'field_1' => $ value_1,
'field_2' => $ value_2,
'field_3' => $ value_3,
]);
$query->condition('field_4', $ value_4);
$query->execute `();
```

- Using complex expressions when updating

```php
$query = \ Drupal :: database ()->update ('example');
$query->expression ('field_1', 'field_1 +: amount', [': amount' => 100]);
$query->expression ('field_3', 'field_2');
$query->execute();
```

- Adding one record

```php
$query = \ Drupal :: database ()->insert ('example');
$query->fields([
'field_1' => $ value_1,
'field_2' => $ value_2,
'field_3' => $ value_3,
]);
$query->execute();
```

- Adding multiple entries

```php
$values = [
[$value_1, $value_2, $value_3],
[$value_4, $value_5, $value_6],
[$value_7, $value_8, $value_9],
];
$query = \ Drupal :: database ()->insert ('example');
$query->fields(['field_1', 'field_2', 'field_3']);
foreach ($values as $record) {
$query->values($record);
}
$query->execute();
```

- Add or update depending on the availability of the record

```php
$query = \ Drupal :: database ()->upsert ('example');
$query->fields(['field_id', 'field_1']);
$query->values ([$ id, $value_1]);
$query->key ('field_id');
$query->execute();
```

- Delete

```php
$query = \ Drupal :: database ()->delete ('example');
$query->condition('field', $value);
$query->execute();
```

Setting allow Drupal upload javascript file and other extension

```
// settings.php

$config['system.file']['allow_insecure_uploads'] = TRUE;
```

cURL error 60: SSL certificate problem

```
Download: http://curl.haxx.se/ca/cacert.pem
Save it in a: "cacert.pem"
Edit php.ini
curl.cainfo = "[pathtothisfile]\cacert.pem"
```

Route nolink

```
route:<nolink>
```

Get view route name

https://www.computerminds.co.uk/drupal-code/drupal-8-views-how-formulate-route-name

```
view.$view_id.$display_id
```

Library working with CSV

```
https://csv.thephpleague.com/

// Read CSV to array
https://csv.thephpleague.com/8.0/reading/
```

```
// Insert data to CSV
https://csv.thephpleague.com/8.0/inserting/
```

Drupal textarea no wrap text

```php
$form['textarea_name'] = [
  '#title' => $this->t('Textarea Title'),
  '#type' => 'textarea',
  '#attributes' => ['style' => ['white-space:nowrap']],
];
```

Config entity and translate config

```
https://www.drupal.org/node/1905070
```

Drupal Entity API cheat sheet

```php
// https://www.metaltoad.com/blog/drupal-8-entity-api-cheat-sheet
// Load a node by NID:
$nid = 123;      // example value
$node_storage = \Drupal::entityTypeManager()->getStorage('node');
$node = $node_storage->load($nid);

// Get a built-in field value:
echo $node->get('title')->value;          // "Lorem Ipsum..."
echo $node->get('created')->value;         // 1510948801
echo $node->get('body')->value;            // "The full node body, <strong>with HTML
echo $node->get('body')->summary;          // "This is the summary"
// a custom text field
echo $node->get('field_foo')->value;       // "whatever is in your custom field"
// a file field
echo $node->get('field_image')->target_id; // 432 (a managed file FID)

echo $node->title->value;          // "Lorem Ipsum..."
echo $node->created->value;        // 1510948801
echo $node->body->value;           // "This is the full node body, <strong>with HT
echo $node->body->summary;         // "This is the summary"
echo $node->field_foo->value;      // "whatever is in your custom field"
```

```php
    echo $node->field_image->target_id;  // 432

    // Paragraphs
    $my_paragraph = null;

    foreach ($node->get('field_paragraph_reference') as $para) {
      if ($para->entity->getType() == 'your_paragraph_type') {   // e.g., "main_content"
        $my_paragraph = $para->entity;
      }
    }

    if (!empty($my_paragraph)) {
      // $my_paragraph is a regular entity and can be interacted with like any other ent
      echo $my_paragraph->field_somefield->value;

      // (however, they don't have a "title" like a node)
      echo $my_paragraph->title->value;  // <-- this won't work
    } else {
      echo "The node doesn't have this paragraph type.";
    }

    // Working with File entities
    $fid = 42;        // example value
    $file_storage = \Drupal::entityTypeManager()->getStorage('file');
    $file = $file_storage->load($fid);

    echo $file->getFileUri();   // "public://file123.jpg"
    // if you want the URL without Drupal's custom scheme, you can translate it to a pla
    echo file_url_transform_relative(file_create_url($file->getFileUri()));   // "/sites
    echo $file->filename->value;   // "file123.jpg"
    echo $file->filemime->value;   // "image/jpeg"
    echo $file->filesize->value;   // 63518  (size in bytes)
    echo $file->created->value;    // 1511206249  (Unix timestamp)
    echo $file->changed->value;    // 1511234256  (Unix timestamp)
    echo $file->id();              // 432

    // The file's user data
    echo $file->uid->target_id;              // 1
    echo $file->uid->value;                  // <-- doesn't work. Use target_id instead
    echo $file->uid->entity->name->value;    // "alice"
    echo $file->uid->entity->timezone->value; // "America/Los_Angeles"

    // Working with Entity References
    foreach ($node->field_my_entity_reference as $reference) {

      // if you chose "Entity ID" as the display mode for the entity reference field,
      // the target_id is the ONLY value you will have access to
      echo $reference->target_id;    // 1 (a node's nid)
```

```php
    // if you chose "Rendered Entity" as the display mode, you'll be able to
    // access the rest of the node's data.
    echo $reference->entity->title->value;    // "Moby Dick"

  }
  // Populate the value of an entity reference field which allows multiple values (thi
  $nids = [3,4,5,6];    // example value
  $node->set('field_my_entity_reference', $nids);
  $node->save();

  // Append new referenced items to an entity reference field (this preserves existing
  $nids = [3,4,5,6];    // example value
  foreach ($nids as $nid) {
    $node->field_my_entity_reference[] = [
      'target_id' => $nid
    ];
  }
  $node->save();
```

Drupal queue

```
https://www.sitepoint.com/drupal-8-queue-api-powerful-manual-and-cron-queueing/
```

Javascript get url query params

```javascript
$.urlParam = function (name) {
    var results = new RegExp('[\?&]' + name + '=([^&#]*)')
                    .exec(window.location.search);

    return (results !== null) ? results[1] || 0 : false;
}

console.log($.urlParam('ref')); //registration
console.log($.urlParam('email')); //bobo@example.com
```

List all block and id

```
drush ev "print_r(array_keys(\Drupal::service('plugin.manager.block')->getDefinition
```

Validator for checking the field depending on the value of another field

```
https://makedrupaleasy.com/articles/drupal-8-custom-validator-checking-field-dependi
```

Drupal theme Views Exposed Filters form

```
https://makedrupaleasy.com/articles/drupal-8-make-beautiful-views-exposed-filters-fo
```

Drupal theme form

Example for create theme for form id **'my_awesome_form'** with module/theme **example**

```php
function example_theme() {
  return [
    'my_awesome_form' => [
      'render element' => 'form',
    ],
  ];
}
```

Create template templates/**my-awesome-form**.html.twig in example module

```twig
{{ form.form_build_id }} # alway require
{{ form.form_token }} # alway require
{{ form.form_id }} # alway require

<div class="row">
  <div class="col-md-6">
    {{ form.name }}
  </div>
  <div class="col-md-6">
    {{ form.address }}
  </div>
</div>
```

Tips

Render form element without div wrapper

```
{{ form.name|without('#theme') }}
{{ form.name|without('#theme_wrappers') }}
```

Replace string or class of element

```
{% set form_name = form.name|render %}
{{ form_name|replace({'old_class':'new_class'})|raw }}
```

Drupal common entity route

Node Route

Links Key	Route Name	Route Example URI	
canonical	entity.node.canonical	/node/1	Url::fromRou
add-page	entity.node.add_page	/node/add	Url::fromRou
add-form	entity.node.add	/node/add/article	Url::fromRou ['node_type'
edit-form	entity.node.edit_form	/node/node/1/edit	Url::fromRou ['node' => $
delete-form	entity.node.delete_form	/node/1/delete	Url::fromRou ['node' => $
collection	entity.node.collection	/admin/content	Url::fromRou
latest_version	entity.node.latest_version	/node/1/latest	Url::fromRou ['node' => $
revision	entity.node.revision	/node/1/revisions/2/view	Url::fromRou ['node' => $
list revisions	entity.node.version_history	/node/1/revisions	Url::fromRou ['node' => $

Links Key	Route Name	Route Example URI	
node preview	entity.node.preview	/node/preview/uuid/full	Url::fromRou ['node_previ => 'full'])

Drupal create link with target blank

```
// Use route
$options = ['absolute' => TRUE, 'attributes' => ['target' => '_blank']];
$link_object = Drupal\Core\Link::createFromRoute(t('the general terms and conditions
    'entity.node.canonical', ['node' => "123"],
    $options);
$link = $link_object->toString();

// Use url
$options = ['absolute' => TRUE, 'attributes' => ['target' => '_blank']];
$link_object = Link::fromTextAndUrl('Detail', Url::fromUserInput('/node', $options))
$link = $link_object->toString();
```

Drupal logger object as array

```
\Drupal::logger('module_name')->notice('<pre><code>' . print_r($array_to_print, T
```

Drupal form ajax command

```
https://www.drupal.org/docs/8/api/javascript-api/ajax-forms
https://www.drupal.org/docs/8/api/ajax-api/core-ajax-callback-commands
https://www.drupalexp.com/blog/creating-ajax-callback-commands-drupal-8
```

Override service class

```
https://kevinquillen.com/overriding-services-drupal-8-serviceprovidebase
https://www.bounteous.com/insights/2017/04/19/drupal-how-override-core-drupal-8-
```

```
service/
```

Theme suggestions

```
https://sqndr.github.io/d8-theming-guide/theme-hooks-and-theme-hook-
suggestions/theme-hook-suggestions.html
```

Theme preprocess

```
https://developpeur-drupal.com/en/article/theme-preprocess-and-suggestions-
drupal-8-bootstrap-sub-theme
```

Twig function for Drupal 8

https://danielmg.org/php/twig-cheatsheet.html

https://www.drupal.org/docs/8/theming/twig/functions-in-twig-templates

https://www.drupal.org/docs/8/modules/twig-tweak/cheat-sheet

```
# Base Syntax
Output: {{ … }}
Base tag: {% … %}
Comments: {# … #}
Array: ['hello', 'world', 3]
Hash: {'name': 'Tyrion', 'age': 5}

# Setting Variables

Sets a variable value: {% set name = 'Tyrion' %}

Append or merge Strings or arrays:
{% set foo = 'Hello ' ~ name %}
{% set foo = foo|merge(bar) %}

Setting a default vale if foo is not previously defined
{% set foo = foo|default('var is not defined') %}
```

```
# Including other Templates

Simple include:

{% include '@architect/includes/header.html.twig' %}
# architect is theme name

Inlcude with custom vars:
{% set headerVars = {'title': 'Homepage'} %}
{% include '@architect/includes/header.html.twig' with headerVars %}


# Macros

{# _macros.twig #}
{% macro foo(var) %}
    Foo and {{ var }}
{% endmacro %}

If you've defined the macros in the same file, you need to import them, using _self:

{# mytemplate.twig #}
{% import '_macros.twig' as m %}
{{ m.foo('bar') }}

# Simple "If/Else" control
{% if kenny.sick %}
    Kenny is sick.
{% elseif kenny.dead %}
    You killed Kenny! You bastard!!!
{% else %}
    Kenny looks okay --- so far
{% endif %}

# Simple "For" control

{% for u in users %}

    {{ u.name }}
{% else %}
    No active users.
{% endfor %}

With a conditional:
{% for u in users if u.active %}

With a filter:
{% for u in users|sort('name') %}
```

```
Get current url
{{ url('<current>') }}

Get url as array
{% set url_arr = url('<current>')|render|split('/') %}

Get current theme path
{% set theme_path = active_theme_path() %}

Get current theme name
{% set theme_name = active_theme() %}

Check user permission
{% if user.hasPermission('administer nodes') %}
  ... do something
{% endif %}
```

Twig batch for array chunk

```
{% set items = ['a', 'b', 'c', 'd', 'e', 'f', 'g'] %}

<table>
{% for row in items|batch(3, 'No item') %}
    <tr>
        {% for column in row %}
            <td>{{ column }}</td>
        {% endfor %}
    </tr>
{% endfor %}
</table>
```

The above example will be rendered as:

```
<table>
    <tr>
        <td>a</td>
        <td>b</td>
        <td>c</td>
    </tr>
    <tr>
        <td>d</td>
        <td>e</td>
        <td>f</td>
    </tr>
    <tr>
```

```
        <td>g</td>
        <td>No item</td>
        <td>No item</td>
    </tr>
</table>
```

Twig column

```twig
{% set items = [{ 'fruit' : 'apple'}, {'fruit' : 'orange' }] %}

{% set fruits = items|column('fruit') %}

{# fruits now contains ['apple', 'orange'] #}
```

Check request is admin route

```php
if (\Drupal::service('router.admin_context')->isAdminRoute()) {
 // do stuff
}
```

Reference: https://drupal.stackexchange.com/a/219371/1542

List Drupal 8 form api elements

```
https://api.drupal.org/api/drupal/elements/8.7.x
https://drupalize.me/tutorial/form-element-reference?p=2766
```

Add ajax for reset button in exposed filter views

```php
/**
 * Implements hook_form_BASE_FORM_ID_alter().
 */
function MODULE_form_views_exposed_form_alter(&$form, FormStateInterface $form_state
  $storge = $form_state->getStorage();
  if (!empty($storge['view']) && $storge['view']->id() === 'my_view') {
    if (isset($form['actions']['reset']) && isset($form['actions']['submit'])) {
      $submit_id = $form['actions']['submit']['#id'];
      $form['actions']['reset']['#attributes']['onclick'] = 'javascript:jQuery(this.
    }
```

```
    }
  }
```

Use Drupal Ajax Command with javascript

```javascript
var ajax = new Drupal.Ajax(false, false, {
  url: Drupal.url('path/to/controller')
});
ajax.execute().done(function () {
  alert('Done');
});
```

Letencrypt

```
https://gist.github.com/flashvnn/82f8707b141b6adfee998d9588fac927
```

Drupal 8 install offline with other language

Issue:

```
 [ERROR] Internet: The translation server is offline.

The installer requires to contact the translation server to
        download a translation file. Check your internet connection and verify
that your website can reach the
        translation server at http://ftp.drupal.org.



https://drupal.stackexchange.com/questions/164172/problem-installing-in-local-the-tr
Copy translate file to folder sites/default/files/translations
```

File with Drupal 8

```php
// Move file entity.
$file = \Drupal\file\Entity\File::load($fid);
```

```php
file_move(FileInterface $source, 'public://newlocation/demo.jpg');
```

Edit Drupal config

```php
$config_factory = \Drupal::configFactory();
$langcode = $config_factory->get('system.site')->get('langcode');
$config_factory->getEditable('system.site')->set('default_langcode', $langcode)->s
```

Check entity bundle has translated

```php
if(!\Drupal::has('content_translation.manager')){
  return false;
}
$content_translation_manager = \Drupal::service('content_translation.manager');
$compatible = $content_translation_manager->isEnabled('node', 'general');
```

Get list field of bundle

```php
$entityManager = \Drupal::service('entity_field.manager');
$fields= $entityManager->getFieldDefinitions($entity_type, $bundle);
```

Get entity bundle of entity type

```php
/**
 * Get entity bundle options.
 *
 * @param $entity_type_id
 *   The entity type identifier.
 *
 * @return array
 *   An array of entity bundle options.
 */
protected function getEntityBundleOptions($entity_type_id) {
  $options = [];

  foreach ($this->entityTypeBundleInfo->getBundleInfo($entity_type_id) as $name =>
    if (!isset($definition['label'])) {
```

```
        continue;
      }
      $options[$name] = $definition['label'];
    }

    return $options;
  }

  // Get all node type
  $node_types = $this->getEntityBundleOptions('node');
```

Set default value for view filter

```
/**
 * Implements hook_form_BASE_FORM_ID_alter().
 */
function MODULE_form_views_exposed_form_alter(&$form, FormStateInterface $form_state
  $storge = $form_state->getStorage();
  if ($storge['view']->id() === 'view_news') {
    if (isset($form['changed_date_select']['#options']) && count($form['changed_date
      if (isset($form['changed_date_select']['#options']['All'])) {
        $user_input = $form_state->getUserInput();
        if (isset($user_input['changed_date_select']) && $user_input['changed_date_s
          next($form['changed_date_select']['#options']);
          $key = key($form['changed_date_select']['#options']);
          $form['changed_date_select']['#default_value'] = $key;
          $user_input['changed_date_select'] = $key;
          $form_state->setUserInput($user_input);
        }
      }
    }
  }

}
```

Check if request is ajax request

```
$request = \Drupal::request();
$is_ajax = $request->isXmlHttpRequest();
```

Check request is AJAX Form Request

```
$request->query->has(static::AJAX_FORM_REQUEST))
```

Add basic authetication for /user url

```
# Add in virtualhost config
<Location /user>
  AuthUserFile /home/path/.htpasswd
  AuthName "Password Protected Area"
  AuthType Basic
  Require valid-user
</Location>
```

Config php.ini setting for local development

```
max_execution_time = 300
max_input_time = 300
max_input_vars = 100000
memory_limit = 2048M
post_max_size = 48M
upload_max_filesize = 48M
```

Config mysql.ini for development

```
symbolic-links=0
innodb_file_per_table = 1
thread_concurrency = 8
query_cache_size = 32M
thread_cache_size = 8
myisam_sort_buffer_size = 64M
read_rnd_buffer_size = 16M
read_buffer_size = 8M
sort_buffer_size = 8M
table_open_cache = 512
max_allowed_packet = 32M
key_buffer_size = 384M
```

Install Acquia Dev Desktop

Install Microsoft Visual C++ 2010 Redistributable Package before run Acquia Dev Desktop

```
https://www.microsoft.com/en-us/download/details.aspx?id=14632
https://www.microsoft.com/en-us/download/details.aspx?id=5555
```

Issue: Drupal Console PHP Fatal error: require(): Failed opening required 'drupal.php'

Check PHP installed with ionCube, need remove it

Issue: Drupal console: The "--shellexec_output" option does not exist

Remove the line with shellexec_output: true from ~/.console/config.yml (probably the last line in the file).

Install composer

```
curl -sS https://getcomposer.org/installer -o composer-setup.php
sudo php composer-setup.php --install-dir=/usr/local/bin --filename=composer
```

Install drupal console global

```
curl https://drupalconsole.com/installer -L -o drupal.phar
mv drupal.phar /usr/local/bin/drupal
chmod +x /usr/local/bin/drupal
```

Render array Properties

#type, #theme, and #markup Almost every Render API element at any level of the render array's hierarchy will have one of these properties defined.

#plain_text

Specifies that the array provides text that needs to be escaped. Example:

```
'#plain_text' => t('Hello world!')
```

Give feedback