



JAVASCRIPT FOR BACKEND DEVELOPERS

Théodore 'nod_' Biadala



🐦 #drupaldevdays

wunderkraut 

• **Smile** •
OPEN SOURCE SOLUTIONS

• **adyax** •

• **Kaliop** •
INTERACTIVE MEDIA

• **ms**SYSTEMS •

•  **agency** •
Stratégies & Solutions Web

•  **TRAINED
PEOPLE** •

• **Amaze**
labs

ASSUMPTIONS

BACKEND OWL

IS IN

CONTROL



FRONTEND FLAMINGO



RUN FROM

CHAOS

You sort of care about frontend

You sort of worry about performance

YOU JUST WANT THING TO WORK



JAVASCRIPT LANDSCAPE



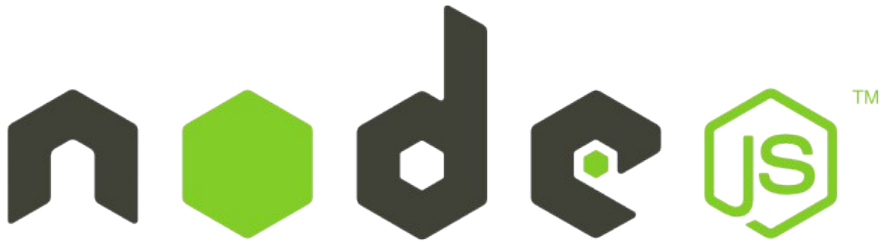
Sugar Syntax

« Classes »

Harmony

Modules







npm is the package manager for **javascript**.



140 568
total packages



56 364 979
downloads in the last day



303 654 692
downloads in the last week



1 236 615 453
downloads in the last month

BUZZ
WORD
BINGO

The image features three words stacked vertically in a playful, overlapping font. The top word, 'BUZZ', is rendered in green, magenta, and orange. The middle word, 'WORD', is in orange, blue, and green, with a blue speech bubble containing a white dot positioned behind the letter 'O'. The bottom word, 'BINGO', is in magenta, blue, yellow, and orange. All letters are bold and have a slight 3D effect with shadows.

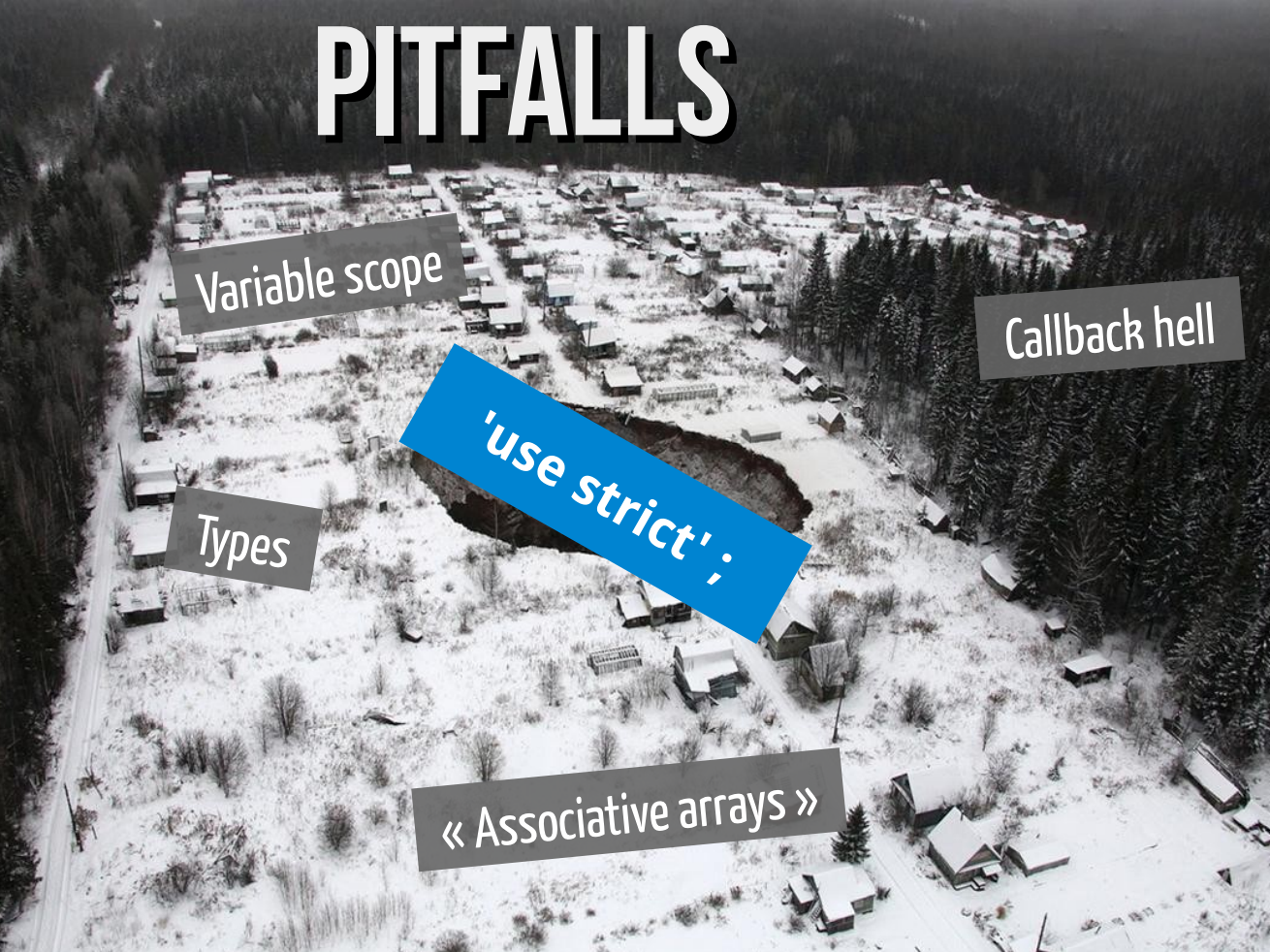
**AMD
CommonJS**

UglifyJS

Isomorphic



PITFALLS

An aerial photograph of a small, snow-covered village with many small houses and a road. A large, dark, irregular crater has formed in the center of the village. Overlaid on the image are five text boxes with a dark background and white text, each representing a programming pitfall. The boxes are tilted at various angles. The background is a grayscale aerial view of a snowy landscape with evergreen trees and small buildings.

Variable scope

Callback hell

Types

'use strict';

« Associative arrays »

BEHAVIORS

Drupal.behaviors.initializeFlamingo = {

attach : function (**context**, settings) {

},

detach : function (**context**, settings, trigger) {}

};



context (page load)

[Back to site](#) [Manage](#) [Shortcuts](#) [admin](#)

[Content](#) [Structure](#) [Appearance](#) [Extend](#) [Configuration](#) [People](#) [Reports](#) [Help](#)

Roles

- ☐ Anonymous user
- ☒ Authenticated user
- ☒ Administrator

Text editor

CKEditor

Toolbar configuration

Move a button into the *Active toolbar* to enable it, or into the list of *Available buttons* to disable it. Buttons may be moved with the mouse or keyboard arrow keys. Toolbar group names are provided to support screen reader users. Empty toolbar groups will be removed upon save.

Available buttons

Styles                                 

ONCE

// In the attach function.

```
var $burgers = $(context).find('.burger') ;
```

// Salt to my burger(s).

```
$burgers.each(saltThisBurger);
```

// Don't add salt at every ajax request !

```
$burgers.once('salt').each(saltThisBurger) ;
```

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Available buttons



Button divider

Active toolbar



Show group names

CKEditor plugin settings

Image

Uploads disabled ☐ Enable image uploads

Enabled filters

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- ☒ Administrator

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CKEditor

once

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Button divider

Show group names

Active toolbar



CKEditor plugin settings

Image

Uploads disabled

☐ Enable image uploads

Enabled filters

PERFORMANCE WOLVES



**Javascript performance,
Don't worry**





DOM Performance

A photograph of a grey and brown wolf in a grassy field. The wolf is shown from the chest up, facing slightly to the left but looking towards the camera. Its mouth is wide open, showing its sharp white teeth and pink tongue. A thick, light-colored rope is tied around its neck, with some frayed ends visible. The wolf's fur is thick and textured. In the background, another wolf is partially visible, mostly obscured and out of focus. The overall scene suggests a wild or semi-wild environment.

**Repaint
&
Reflow**

WOLF-RESISTANT TOOLS



UNDERSCORE.JS



BACKBONE.JS

 **jQuery**
write less, do more.

QUESTIONS?

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The problem with Angular

— ppk