



Set up a **Drupal 8** Development Workflow with Configuration Management

by Jorge Diaz



INTRO

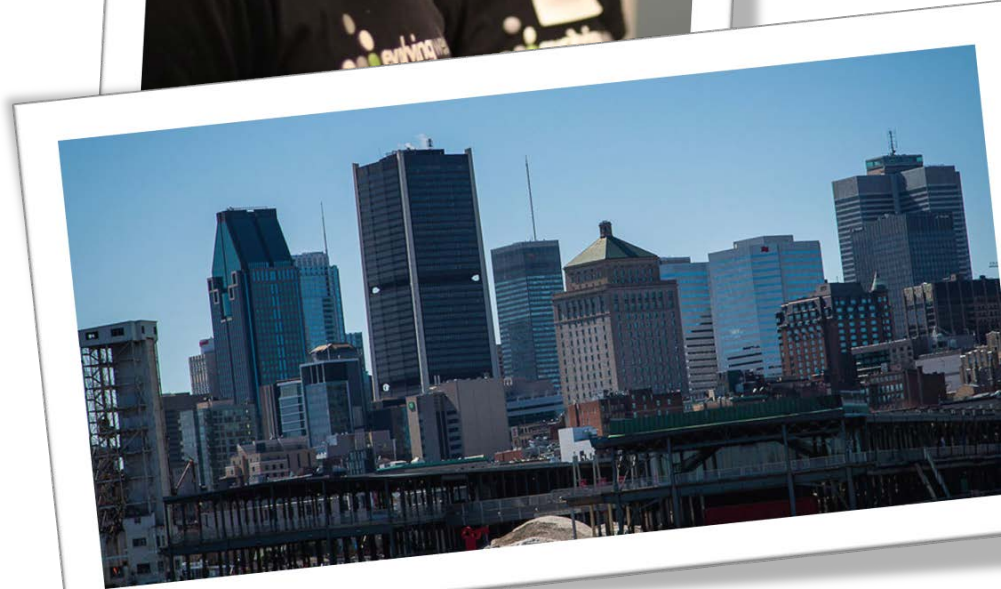
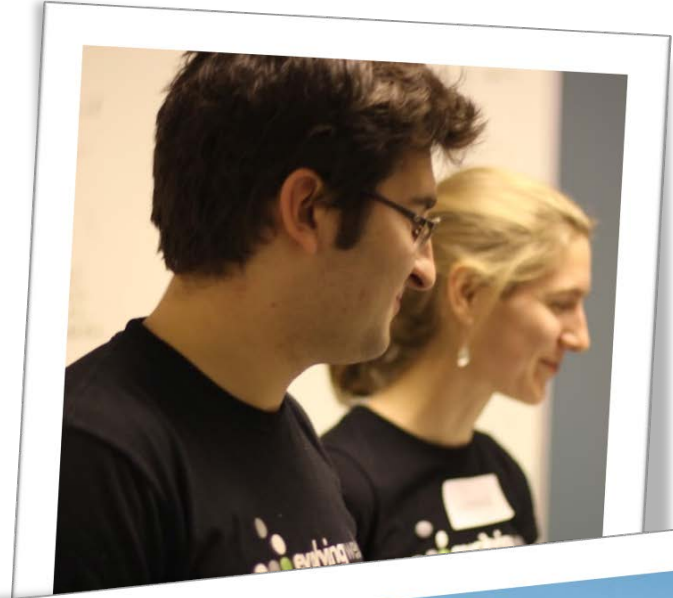
WHO WE ARE

A passionate team of Drupal Developers based in Montreal, QC.

**DRUPAL CONSULTING,
DEVELOPMENT AND TRAINING.**

**FOUNDED IN 2007 BY SUZANNE
KENNEDY & ALEX DERGACHEV.**

**HELP ORGANIZATIONS BUILD
AWESOME DRUPAL WEBSITES WITH
CUSTOM FUNCTIONALITY.**



INTRO

ABOUT ME

And will try to do their best in the next 40 minutes...

**MY NAME IS JORGE DIAZ AND
I'VE BEEN WORKING WITH
DRUPAL FOR MORE THAN 8
YEARS.**

**I WORK AS A DRUPAL THEMER
& FRONT-END DEVELOPER AT
EVOLVING WEB.**



WHO WILL STAND HERE?

INT



INTRO

WE SPECIALIZE IN DRUPAL

From standard websites to advanced content management tools.



INTRO

SOME BIG FISH HAVE HIRED US

Mostly in North America, we have a wide variety of clients.





INTRO

SUMMARY

For the next 40 minutes

INTRO TO CONFIG MANAGEMENT (CM)

Features as an alternative for teams.

D7 CONFIGURATION MANAGEMENT

Features as an alternative for teams.

THE NEW D8 CONFIGURATION MANAGEMENT

What is new & how this changes everything.

LIVE DEMO OF A SAMPLE D8 PROJECT

Simulating 2 developers working together

RECAP

Review the main points of the development experience

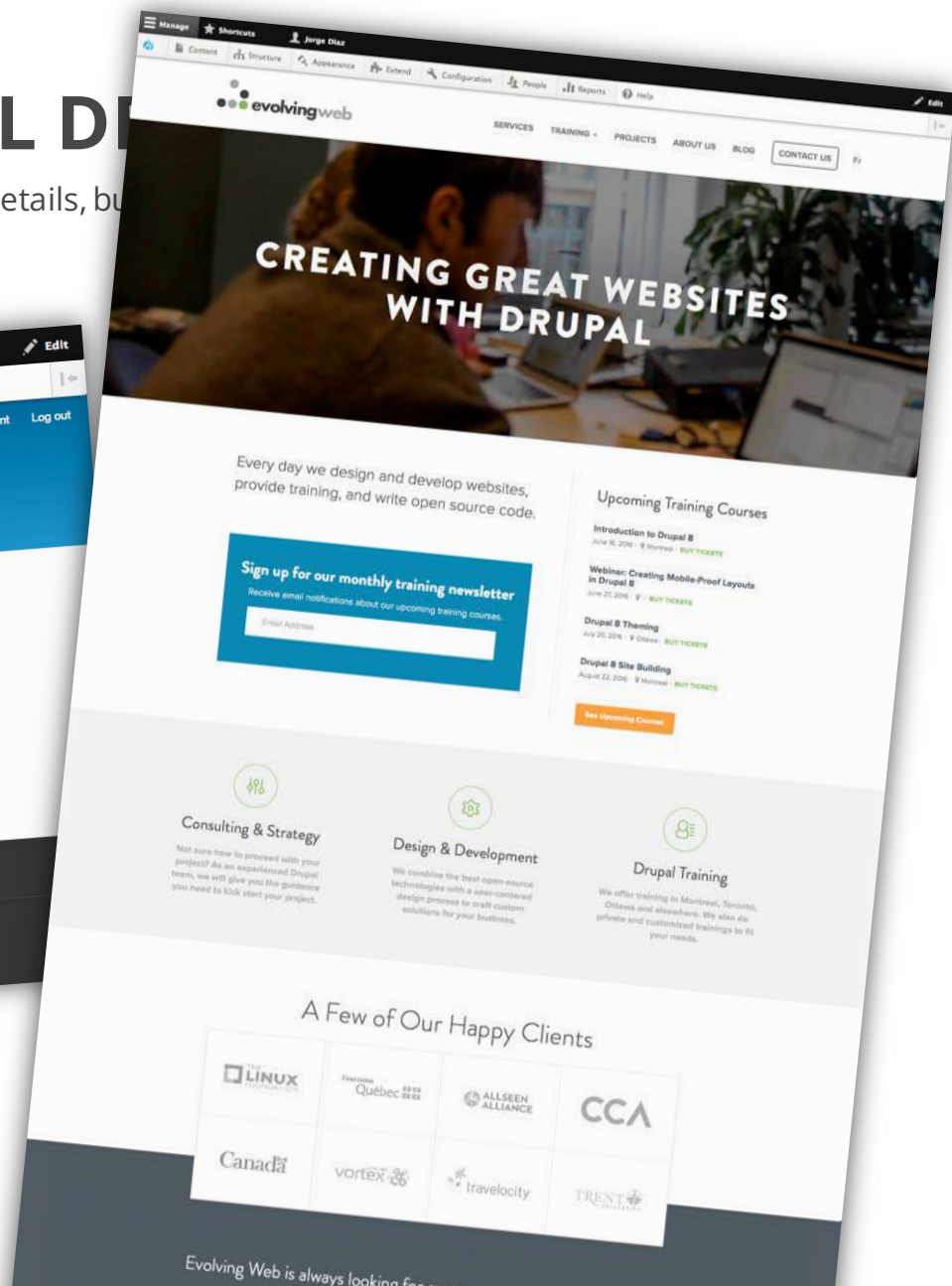
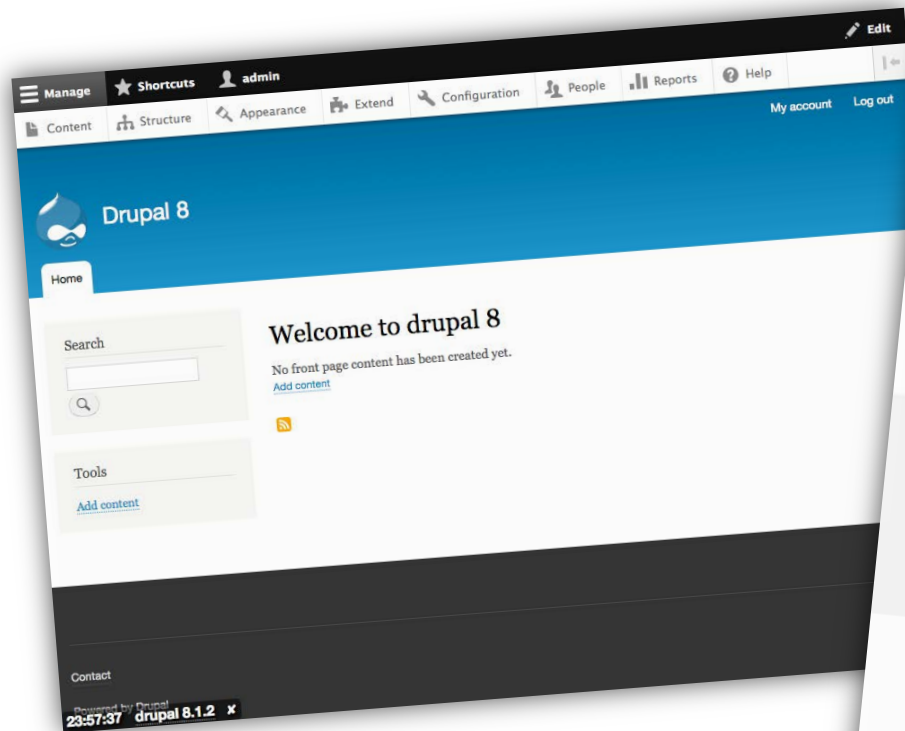
The background of the image is a scenic coastal landscape. On the left, a steep, rocky cliff is covered with dense green trees and shrubs. At the base of the cliff, a small, sandy beach is visible. The ocean is a vibrant blue, with white waves crashing against the rocks and the shore. The sky is a pale, clear blue. A large, semi-transparent green rectangle is overlaid on the center of the image, containing the title text in white, bold, sans-serif capital letters. The text is enclosed within a thin white rectangular border.

WHAT IS CONFIGURATION MANAGEMENT?

CONFIG MANAGEMENT

DRUPAL DR

Involves a lot of details, but

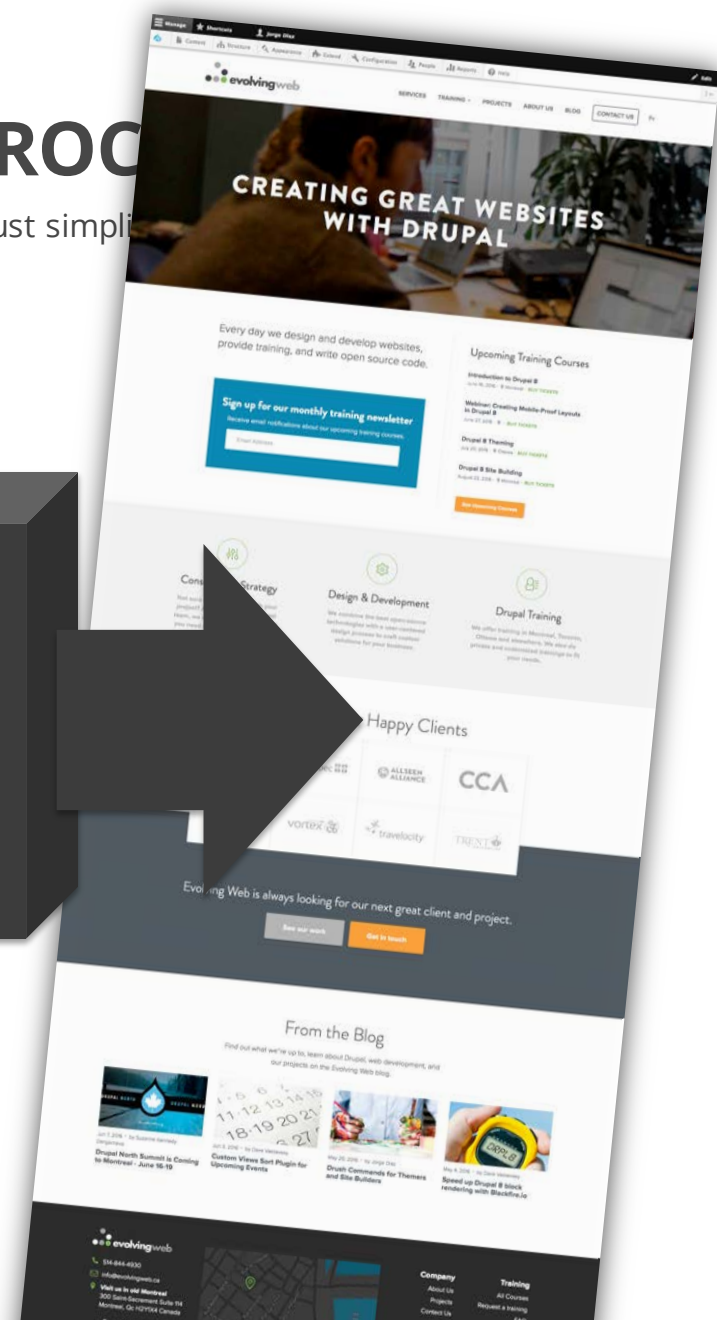
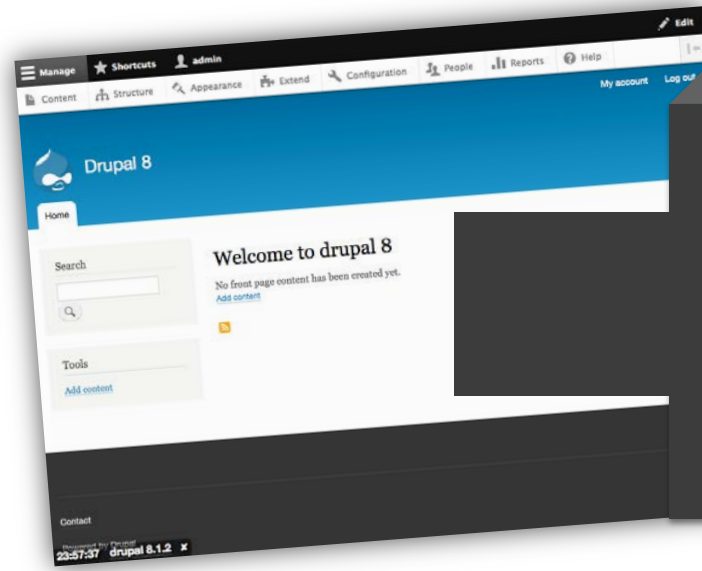


CONFIG MANAGEMENT

DRUPAL DEV PROC

Involves a lot of details, but we will just simplify

DEV PROCESS



**CONFIG
MANAGEMENT**

DRUPAL DEV PROCESS

Involves a lot of details, but we will just simplify it

**STRUCTURAL
CHANGES**

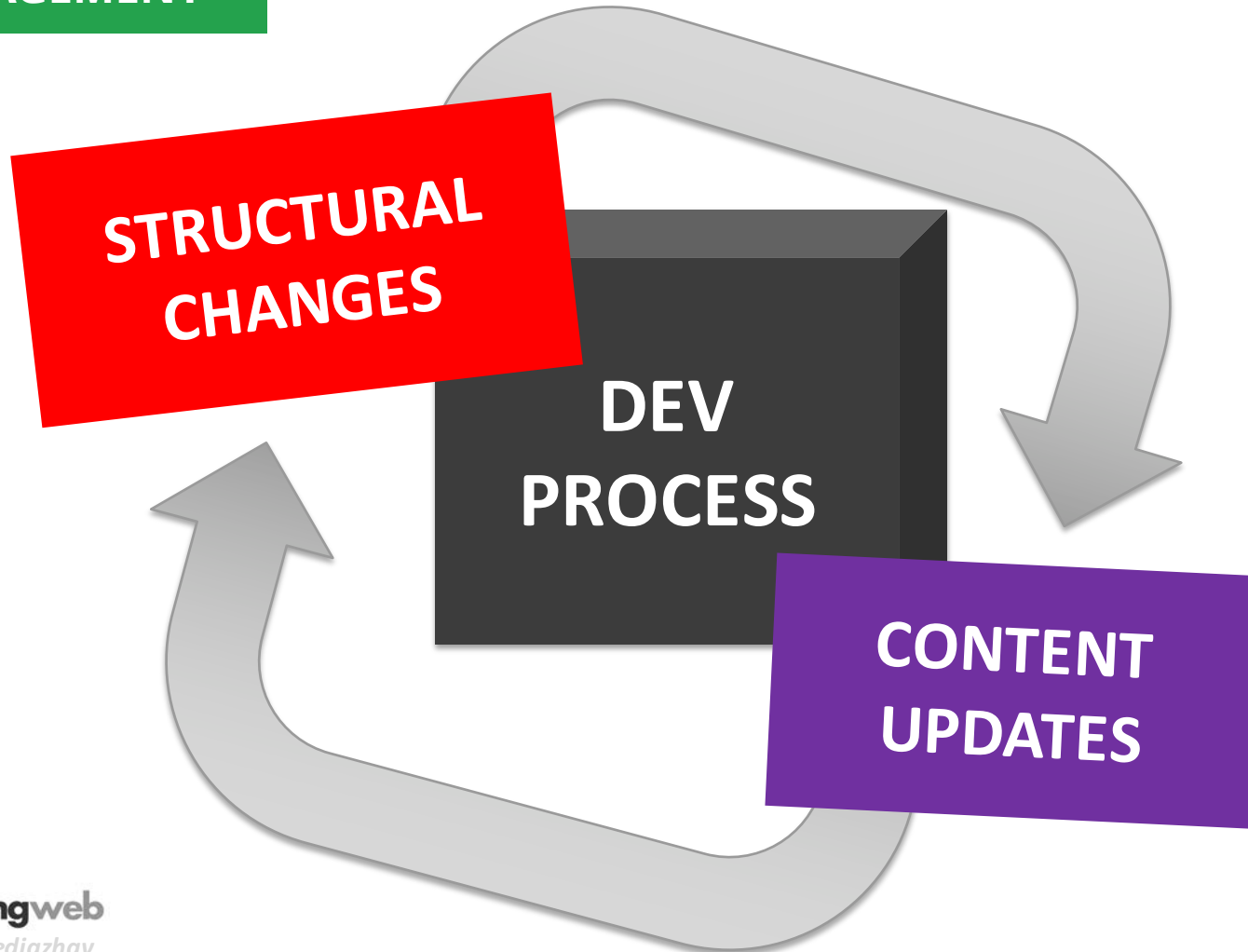
**DEV
PROCESS**

**CONTENT
UPDATES**

**CONFIG
MANAGEMENT**

DRUPAL DEV PROCESS

Involves a lot of details, but we will just simplify it



CONFIG MANAGEMENT

THIS IS JUST A “CMS” APPROACH

Involves a lot of details, but we will just simplify it



WORDPRESS



Joomla!™



CONFIG MANAGEMENT

HOW TO SYNCHRONIZE CONFIG?



BACKEND
DEVELOPER



FRONT-END
DEVELOPER



SITE
BUILDER



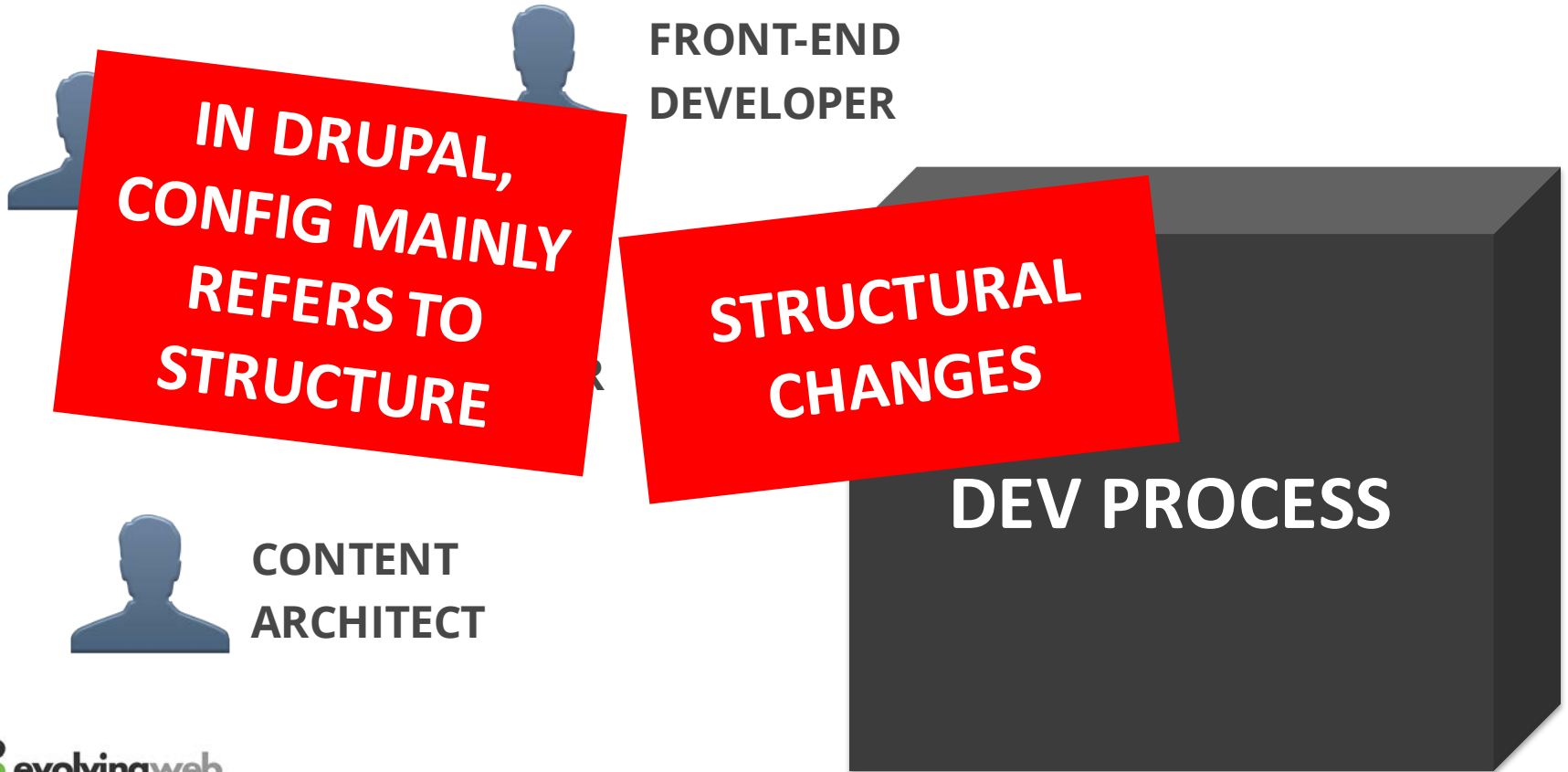
CONTENT
ARCHITECT

**STRUCTURAL
CHANGES**

DEV PROCESS

CONFIG MANAGEMENT

HOW TO SYNCHRONIZE CONFIG?



CONFIG MANAGEMENT

CONTENT TALK IS LATER AT 4PM

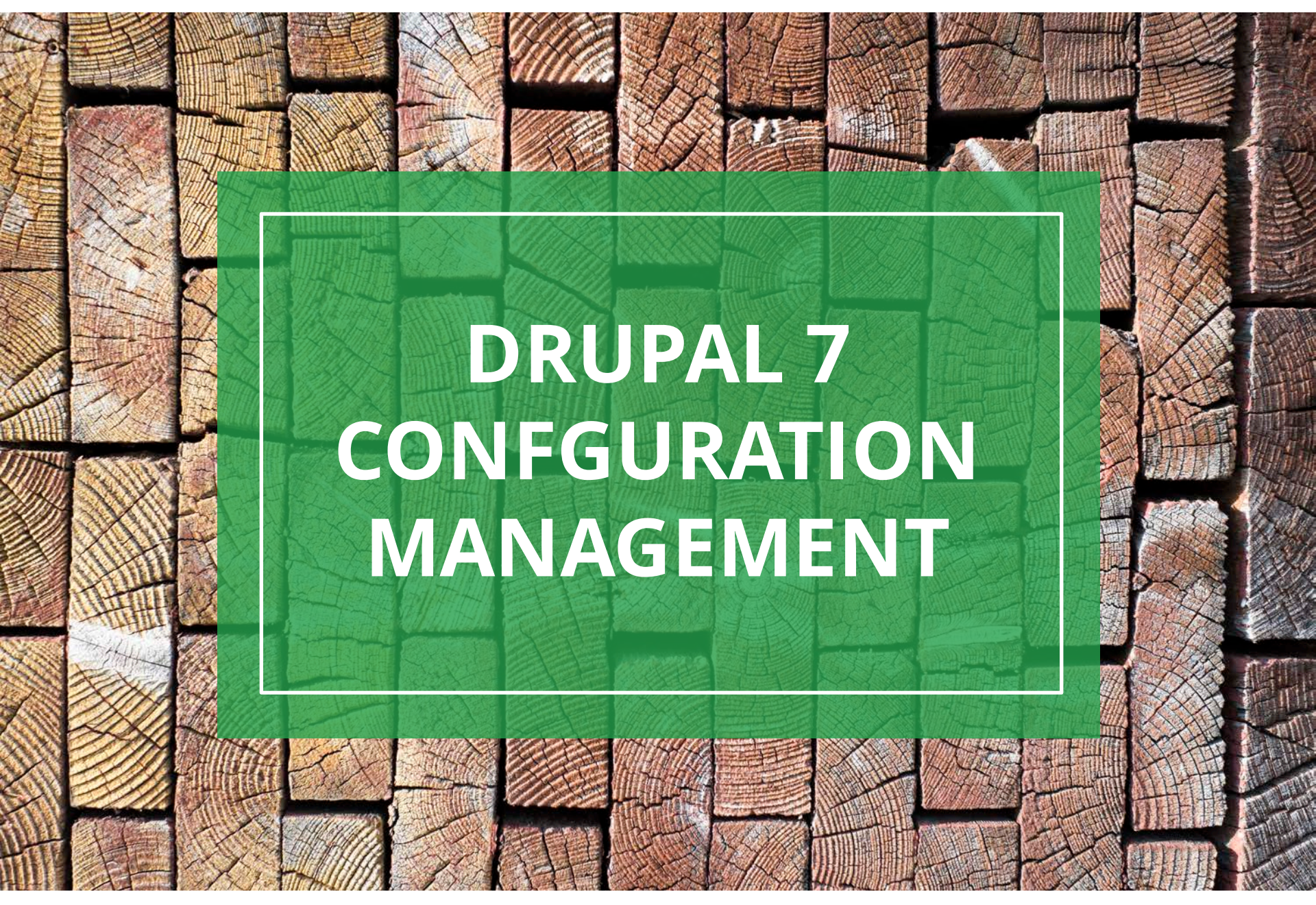
Right here :)

THE PRESENT TALK
WILL FOCUS ON
CONFIG MANAGEMENT

DEV
PROCESS

CONTENT
UPDATES

The screenshot shows a web page for a Drupal North conference session. The header includes 'LIVE UPDATES', 'DRUPAL' with a logo, 'NORTH', and 'CONFERENCE'. The main title is 'MOVING OUR COMPANY SITE TO DRUPAL 8: BREAK THE ICE!'. Below the title, it says 'English' and 'Backend & Dev-ops'. The speakers are listed as 'Dave Vasilevsky, Jorge Diaz'. The audience experience level is 'Drupal Intermediate'. The description starts with 'In this talk, we will describe the entire process of moving our company website (Drupal 7, built in 2011) to a new site created from scratch. The new site is intended to be wide and descriptive of our company setup every step of the way to Drupal 8.' The speakers' names are repeated, followed by their titles: 'Senior Theme Developer, Montreal, @jorgediazhav' and 'Acquia Certified Grand Master Developer currently working as Drupal Front-end Developer & Themer at Evolving Web, a Montreal based company with an amazing team of co-worker Drupal Developers.' A bio for Dave Vasilevsky follows: 'More than 8 years of experience delivering Drupal based General Purpose solutions for different sectors such as Job Boards, Product Portfolios, Geo Coding, Real Estate solutions, E-Commerce, Classifieds, Corporate and online Magazines/Newspapers. I have experience with: Project and Product Management, Drupal and Drush 8.x & 7.x, Drupal Console, Docker, Git, Tower, Firebug, Atom, Twig, PHP, Preprocess Functions, Drupal hooks, SASS, CSS, etc.'

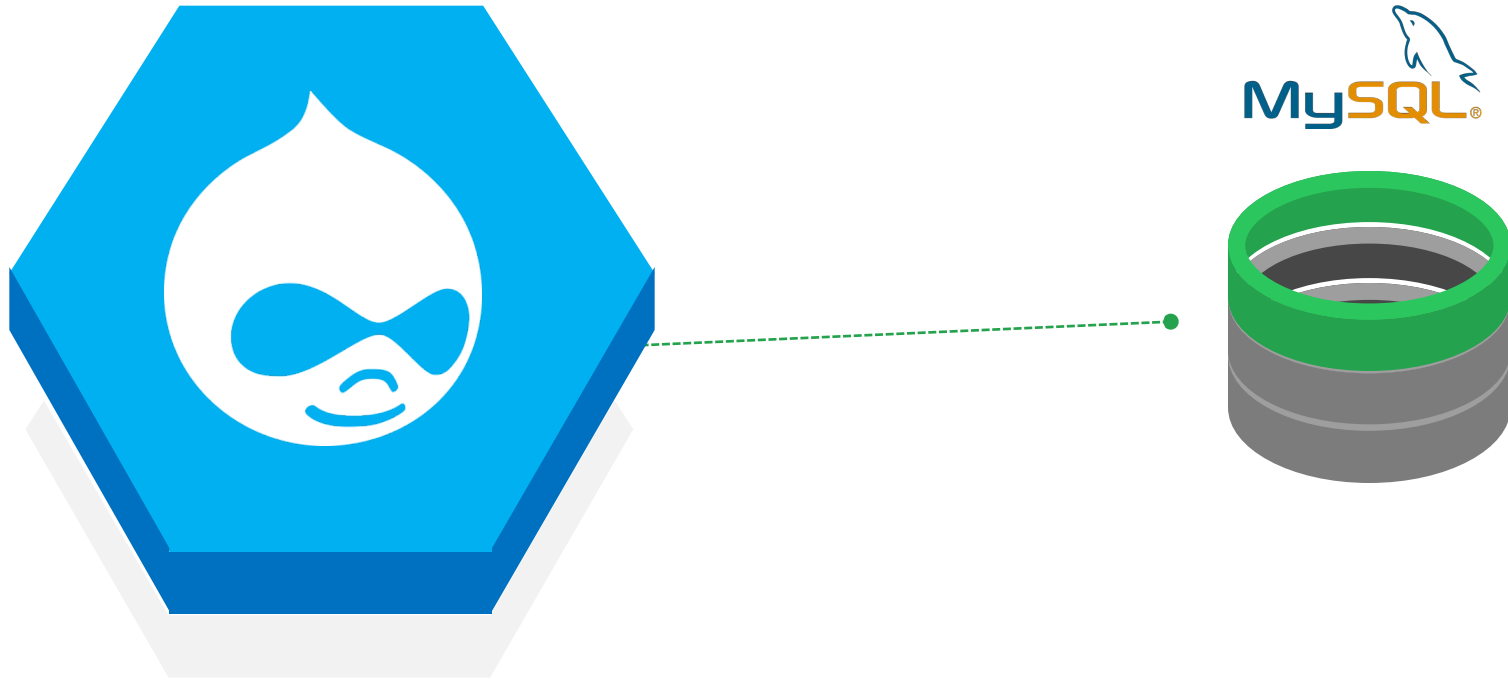


DRUPAL 7 CONFIGURATION MANAGEMENT

D7 CONFIGURATION MANAGEMENT

DRUPAL 7

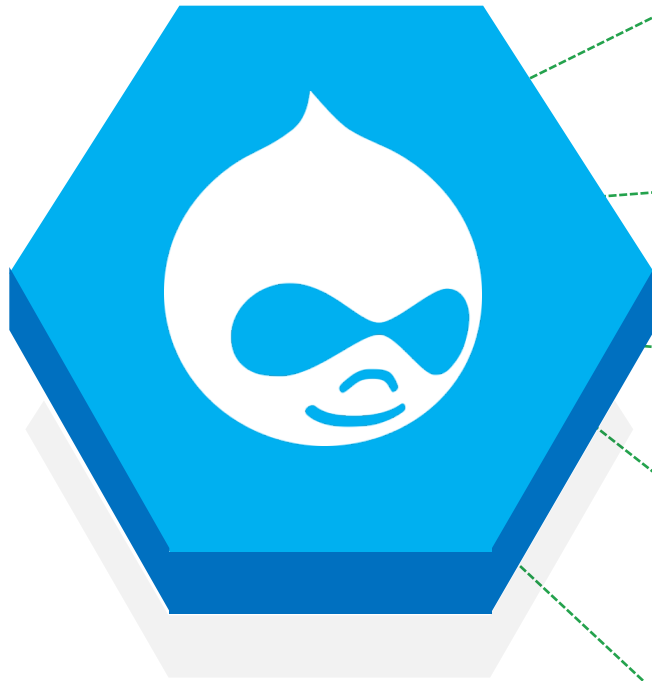
Configuration and content live in the same place



D7 CONFIGURATION MANAGEMENT

DRUPAL 7

Configuration and content live in the same place



CONTENT TYPES, TAXONOMIES & MENUS

Blog posts, Pages, Articles, Menu Items...

VIEWS & BLOCKS POSITIONS

Views structure and config, blocks positioning across themes...

ROLES, PERMISSIONS & USER FIELDS

Custom user fields, roles and all related permission.

CONTENT NODES, TAGS & MENU ITEMS

Blog posts, articles, Pages and navigation items.

REGISTERED USERS

With all their info, emails, encrypted passwords...

D7 CONFIGURATION MANAGEMENT

DRUPAL 7

Configuration and content live in the same place

STRUCTURE

CONTENT TYPES, TAXONOMIES & MENUS

Blog posts, Pages, Articles, Menu Items...

VIEWS & BLOCKS POSITIONS

Views structure and config, blocks positioning across themes...

ROLES, PERMISSIONS & USER FIELDS

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CONTENT

CONTENT NODES, TAGS & MENU ITEMS

Blog posts, articles, Pages and navigation items.

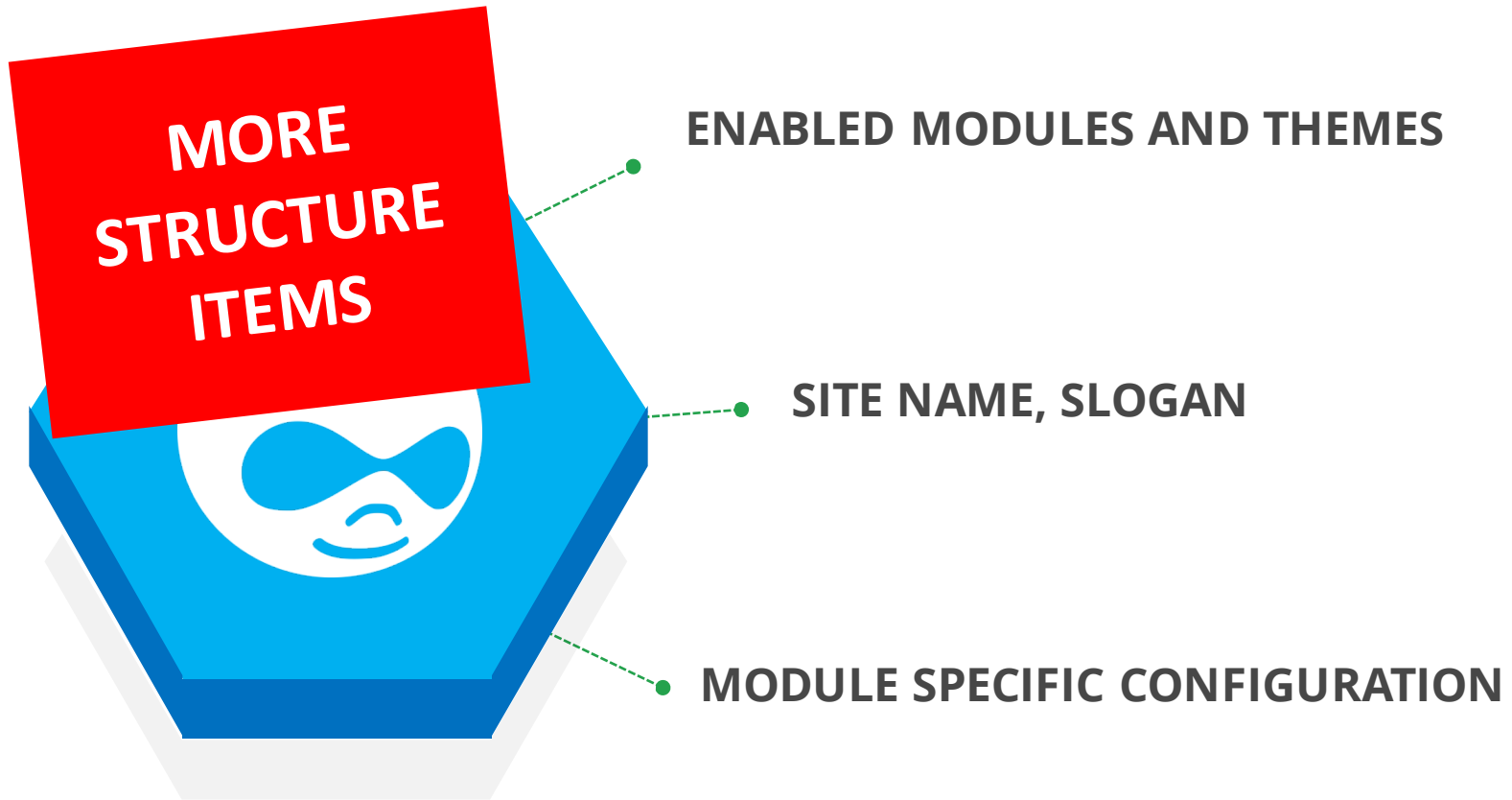
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D7 CONFIGURATION MANAGEMENT

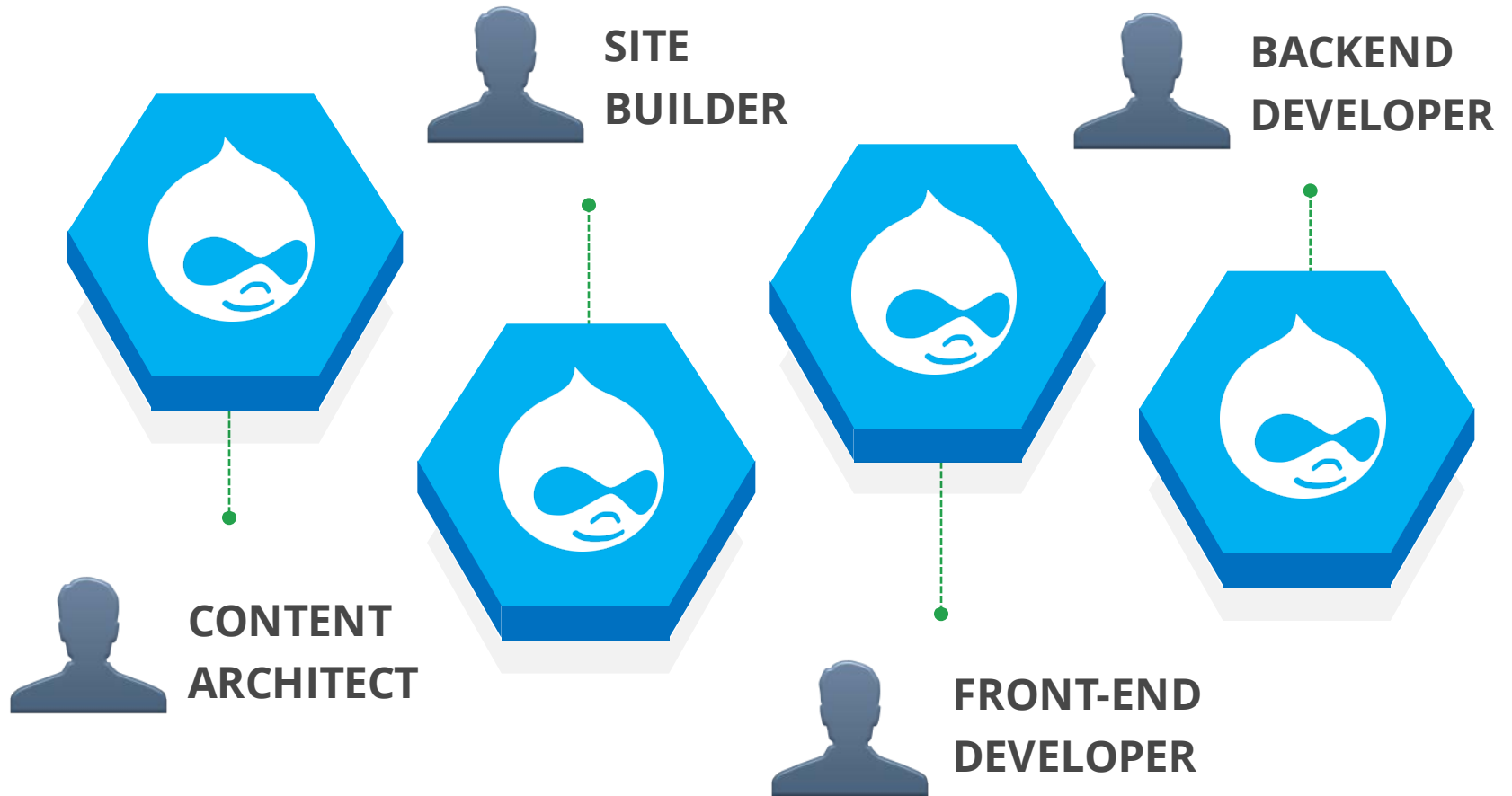
DRUPAL 7

Configuration and content live in the same place



HOW TO WORK TOGETHER

And make all our workflows to converge at some point?



**D7
CONFIGURATION
MANAGEMENT**

GIT TAKES CARE OF THE CODE



**SITE
BUILDER**



**BACKEND
DEVELOPER**

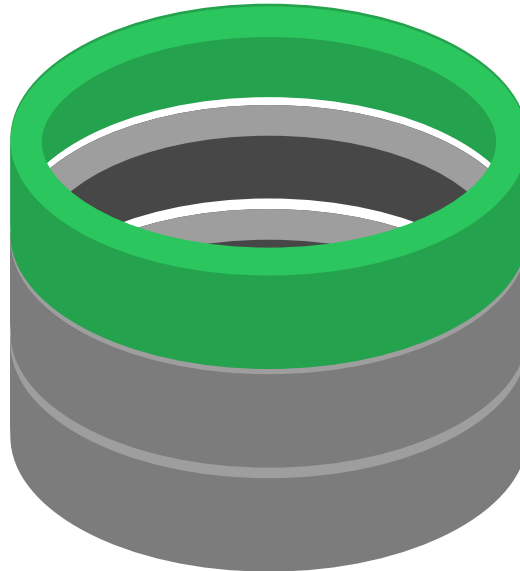


**CONTENT
ARCHITECT**



**FRONT-END
DEVELOPER**

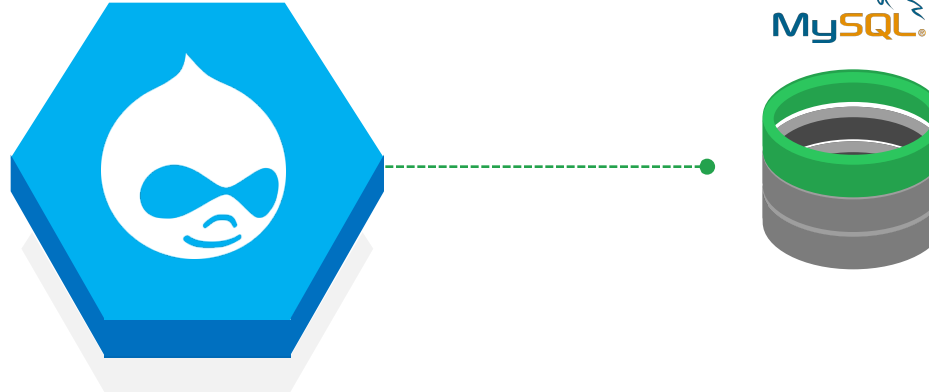
THE REAL ISSUE IS THE DB



D7 CONFIGURATION MANAGEMENT

THE SAME CODEBASE?

It will be going back to the '90s



**SITE
BUILDER**



**CONTENT
ARCHITECT**



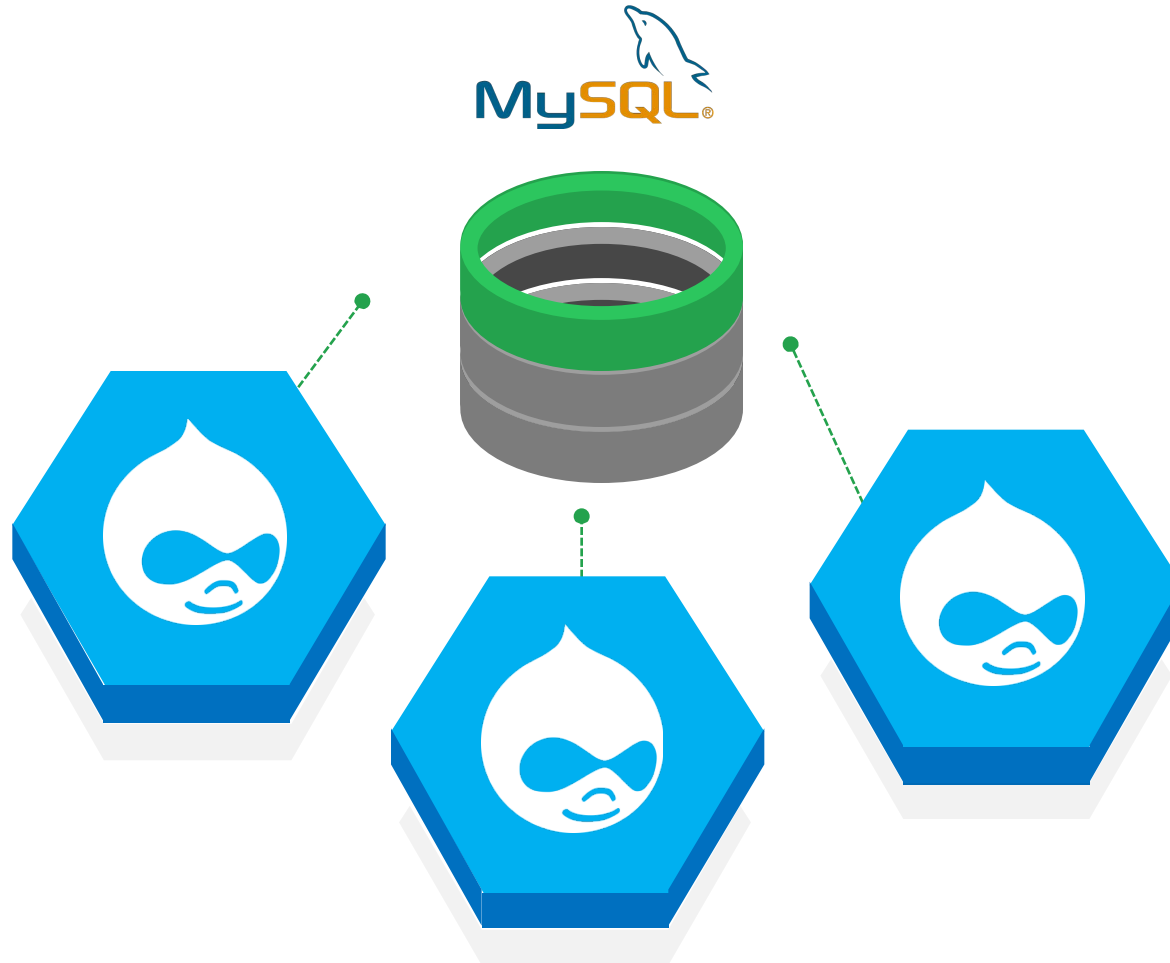
**FRONT-END
DEVELOPER**



**BACKEND
DEVELOPER**

SHOULD WE USE THE SAME DB?

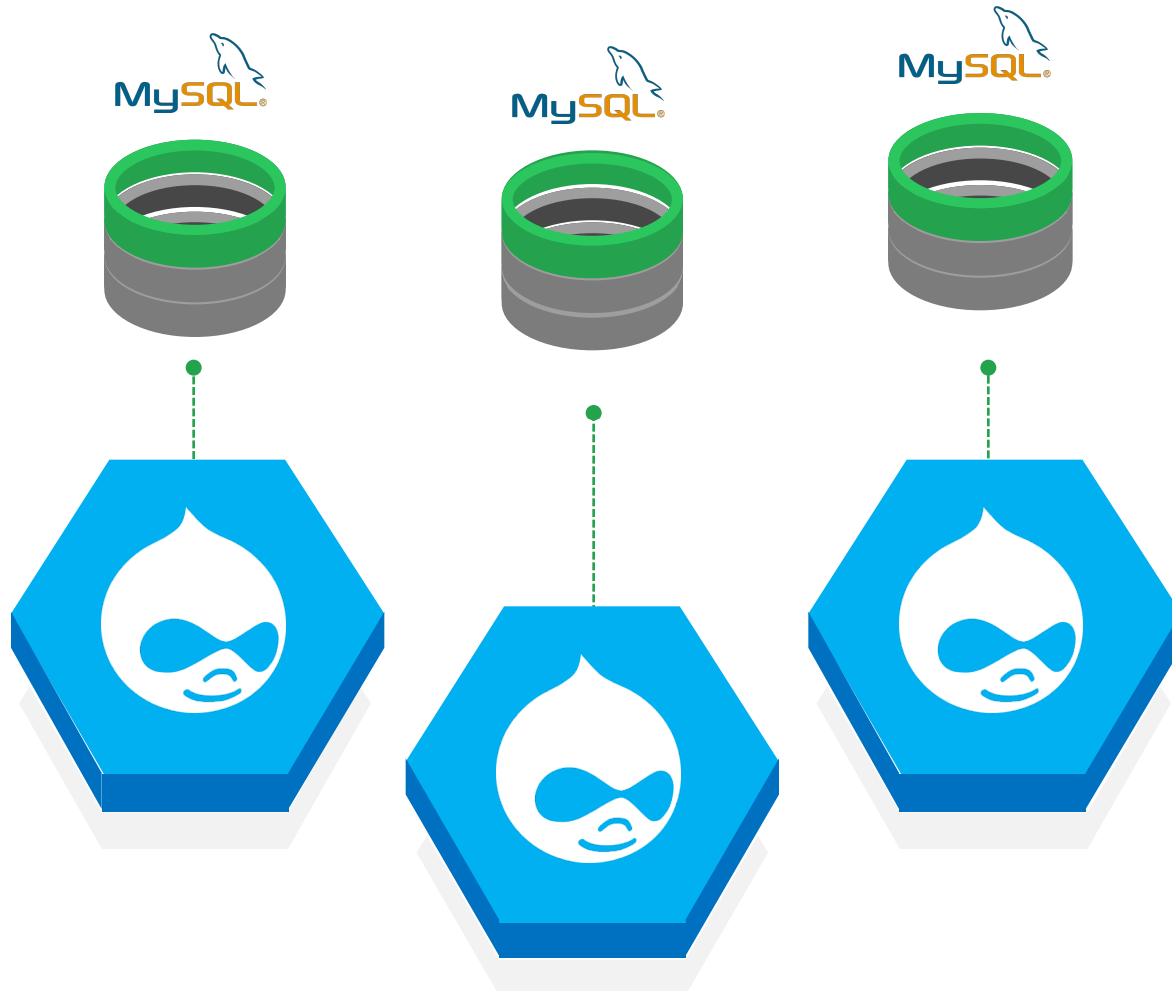
Mmmmm..... We have all been there before :(



D7 CONFIGURATION MANAGEMENT

HOW TO MERGE CONFIGURATION

That is the question...



SOMETHING HAD TO BE DONE

To support very biiiiiiiiiiiig & scalable projects

FEATURES MODULE

EXPORT CONFIG ENTITIES TO CODE

To save Drupal 7

**VIEWS, CONTENT TYPES, MENU
STRUCTURES**

ROLES, PERMISSIONS & VARIABLES

BLOCKS WITH CONTENT & POSITIONS

EXPORT CONFIG ENTITIES TO CODE

To save Drupal 7

**FEATURES WAS INITIALLY
CONCEIVED TO BUNDLE &
REUSE STRUCTURES**

VIEWS

CONTENT & POSITIONS

D7 CONFIGURATION MANAGEMENT

EXPORT CONFIG ENTITIES TO CODE

To save Drupal 7



COMPONENTS

Expand each component section and select which items should be included in this feature export.

Filter ☐ Select all

- ▶ **CONTENT TYPES** (node)
- ▶ **CONTEXT** (context)
- ▶ **DEPENDENCIES** (dependencies)
 - ☒ Chaos tools ☒ Features ☒ Image ☒ Node Reference ☒ Taxonomy ☐ Remote Images
- ▶ **FIELDGROUP** (field_group)
- ▶ **FIELDS** (field)
 - ☒ node-article-body ☒ node-article-field_tags ☒ node-article-field_image
 - ☒ node-article-field_summary ☒ node-article-field_reference
- ▶ **IMAGE STYLES** (image)
- ▶ **LANGUAGES** (language)
- ▶ **MENU LINKS** (menu_links)
- ▶ **MENUS** (menu_custom)
- ▶ **PERMISSIONS** (user_permission)
- ▶ **ROLES** (user_role)
- ▶ **STRONGARM** (variable)
- ▶ **TAXONOMY** (taxonomy)

D7 CONFIGURATION MANAGEMENT

EXPORT CONFIG ENTITIES TO CODE

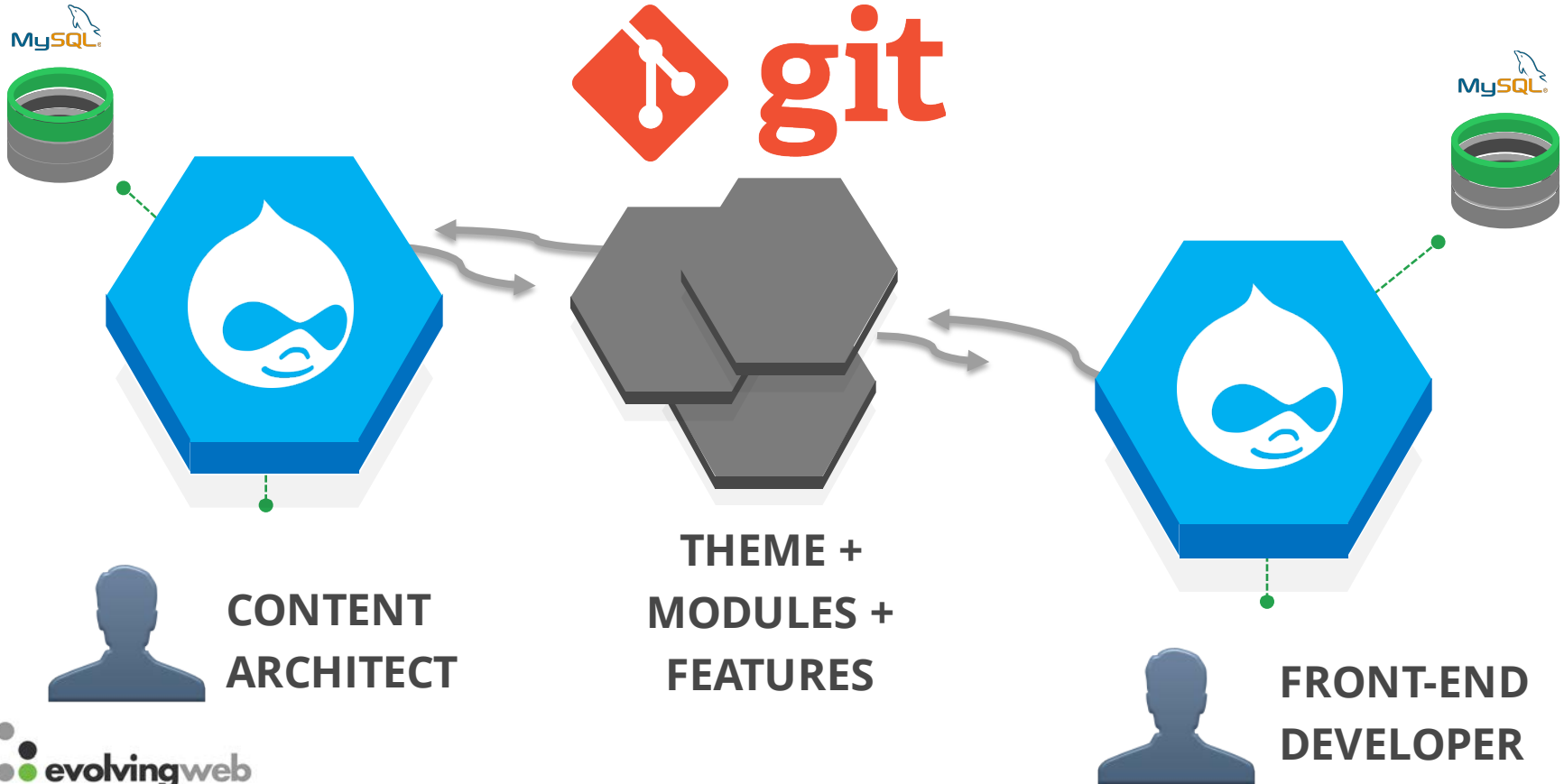
To save Drupal 7

```
41 $strongarm = new stdClass();  
42 $strongarm->disabled = FALSE;  
43 $strongarm->api_version = 1;  
44 $strongarm->name = 'comment_default_per_page_blog';  
45 $strongarm->value = '50';  
46 $export['comment_default_per_page_blog'] = $strongarm;  
47
```

D7 CONFIGURATION MANAGEMENT

HOW TO WORK TOGETHER

And make our configuration converge at some point



SOMETHING HAD TO BE DONE

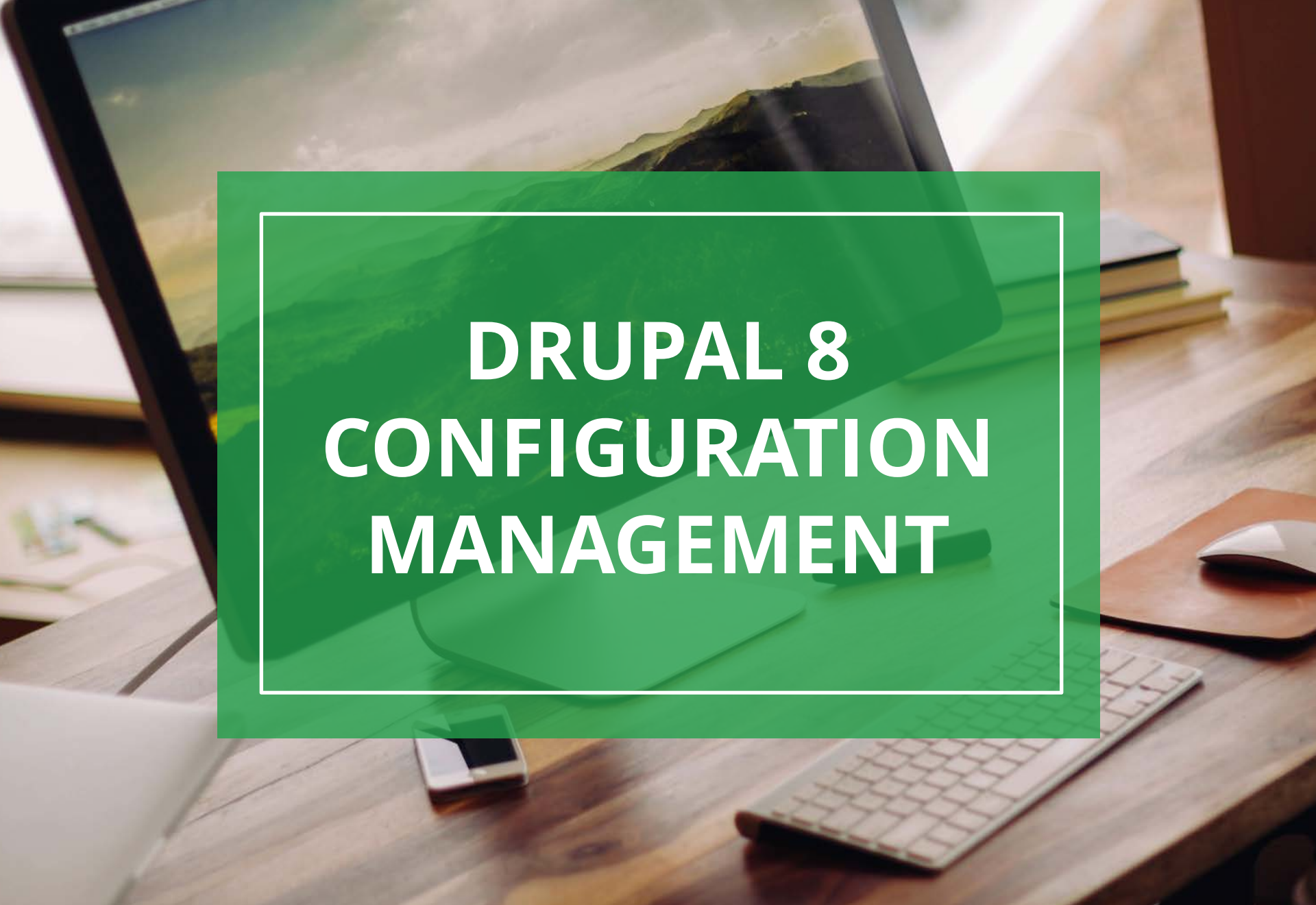
To support very biiiiiiiiiiiig & scalable projects

**FEATURES IS RANKED
#20th IN CONTRIB**

SOMETHING HAD TO BE DONE

To support very biiiiiiiiiiiig & scalable projects

WHAT TO DO FOR #DRUPAL8?

A photograph of a wooden desk with a laptop, keyboard, mouse, and smartphone. A semi-transparent green rectangle is overlaid on the center of the image, containing the title text in white. The laptop screen shows a landscape image of mountains under a cloudy sky.

DRUPAL 8 CONFIGURATION MANAGEMENT

DRUPAL 8 CONFIG MANAGEMENT

FEATURES SHOWED THE PATH

To support very biiiiiiiiiiiig & scalable projects



**CONFIG STAYS IN
THE DB**

DRUPAL 8 CONFIG MANAGEMENT IS IN CORE

And it is just amazing!

DRUPAL 8 CONFIG MANAGEMENT

FEATURES SHOWED THE PATH

To support very biiiiiiiiiiiig & scalable projects



**CONFIG STAYS IN
THE DB**

**IT CAN BE SYNCED
(EXPORTED & IMPORTED)**

DRUPAL 8 CONFIG MANAGEMENT IS IN CORE

And it is just amazing!

DRUPAL 8 CONFIG MANAGEMENT

FEATURES USE THE PATH

To support very biiiiiiiiiiiig & scalable projects



DRUPAL 8 CONFIG MANAGEMENT IS IN CORE

And it is just amazing!

**CONFIG STAYS IN
THE DB**

**IT CAN BE SYNCED
(EXPORTED & IMPORTED)**

THE FORMAT IS YAML



```
$strongarm = new stdClass();  
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$export['comment_default_per_page_blog'] = $strongarm;
```



```
$strongarm = new stdClass();  
$strongarm->disabled = FALSE;  
$strongarm->api_version = 1;  
$strongarm->name = 'comment_default';  
$strongarm->value = '50';  
$export['comment_default'] = $strongarm;
```

```
3 dependencies:  
4   config:  
5     - comment.type.comment  
6     - field.field.comment.comment.comment  
7   module:  
8     - text  
9   id: comment.comment.default  
10  targetEntityType: comment  
11  bundle: comment  
12  mode: default  
13  content:  
14    comment_body:  
15      label: hidden  
16      type: text_default  
17      weight: 0
```

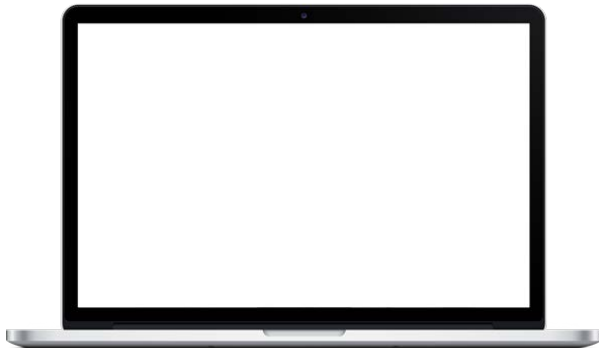


**SEE CONFIG
MANAGEMENT
IN ACTION!**

**SEE CONFIG
MANAGEMENT
IN ACTION!**

MEET THE IMAGINARY TEAM!

That I will emulate in the following Demo



**BACKEND
DEVELOPER**



**FRONT-END
DEVELOPER**

**SEE CONFIG
MANAGEMENT
IN ACTION!**

MEET THE IMAGINARY TEAM!

That I will emulate in the following Demo



**FRONT-END
DEVELOPER**



**BACKEND
DEVELOPER**

**SEE CONFIG
MANAGEMENT
IN ACTION!**

MEET THE IMAGINARY TEAM!

That I will emulate in the following Demo



**BACKEND
DEVELOPER**



**FRONT-END
DEVELOPER**

**SEE CONFIG
MANAGEMENT
IN ACTION!**

EACH ONE WILL HAVE A DEV ENV

That Acquia Dev Desktop will help me emulate.



**BACKEND
DEVELOPER**



**FRONT-END
DEVELOPER**

**SEE CONFIG
MANAGEMENT
IN ACTION!**

BOTH WILL BE IN SYNC

And then they will be happy Drupal 8 Devs!



**BACKEND
DEVELOPER**



**FRONT-END
DEVELOPER**

DEMO, DEMO!
TIME IS
RUNNING!!!

DEMO

SAMPLE CONFIG

To emulate a sample configuration

```
$ drush dl admin_toolbar
```

```
$ drush en admin_toolbar_tools
```

```
$ drush en bootstrap
```

```
$ drush config-set system.theme default bootstrap
```

DEMOu

DRUSH INSTALL

Based on an installation profile

```
drush  
  site-install  
  --verbose  
  config_installer  
  config_installer_sync_configure_form.sync_directory=config/site  
  --db-url=mysql://root:@127.0.0.1:33069/DB_NAME  
  --yes
```



RESULTS

RESULTS

DRUPAL 8 WAS NEEDED

It's really easy to create config structures

```
# Export the configuration to push into the Repository
$ drush config-export --destination=config/site

# Import the configuration pulled from the Repository
$ drush config-import --source=config/site
```


RECAP

1. Install the Web Server and Drush for Drupal 8 (90% chances you have this done already)
2. Install your Drupal 8 site and add **config_installer**
3. Export your config and push it to your repo.

RECAP

5. Clone your repo elsewhere and install your site using the ***\$ drush site-install config_installer...*** command.

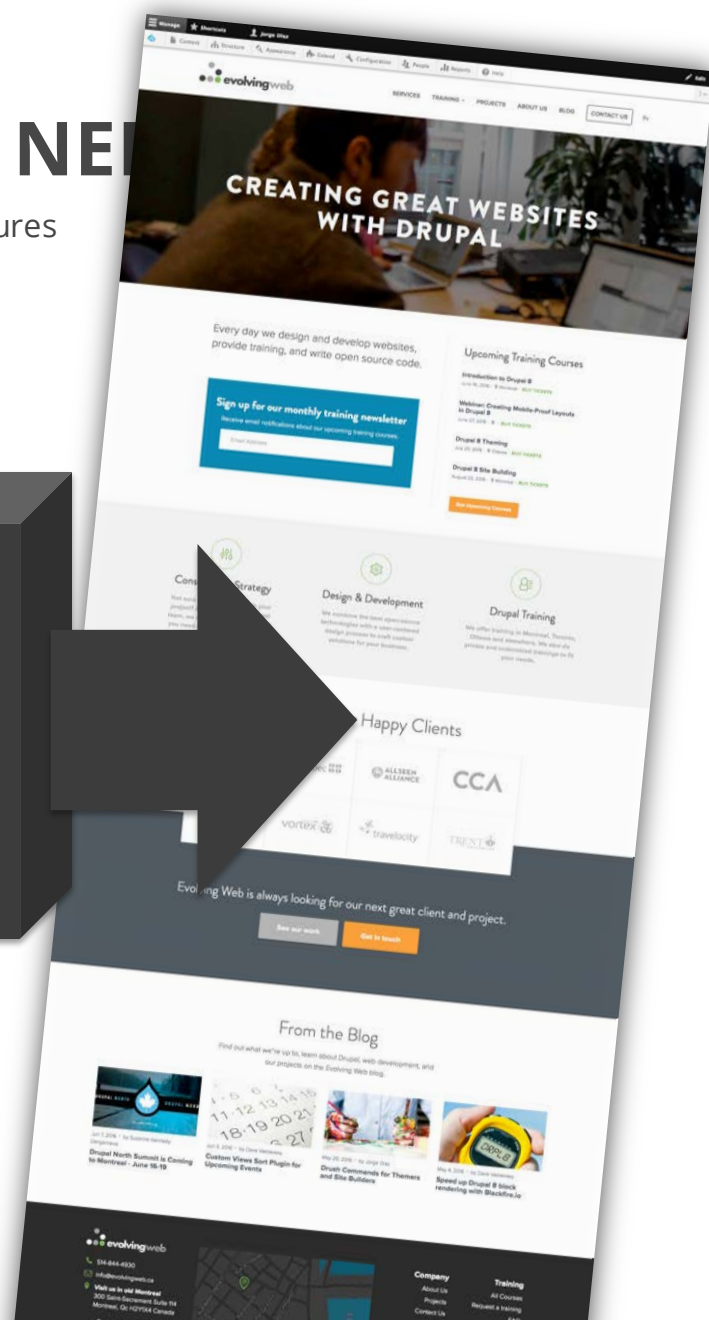
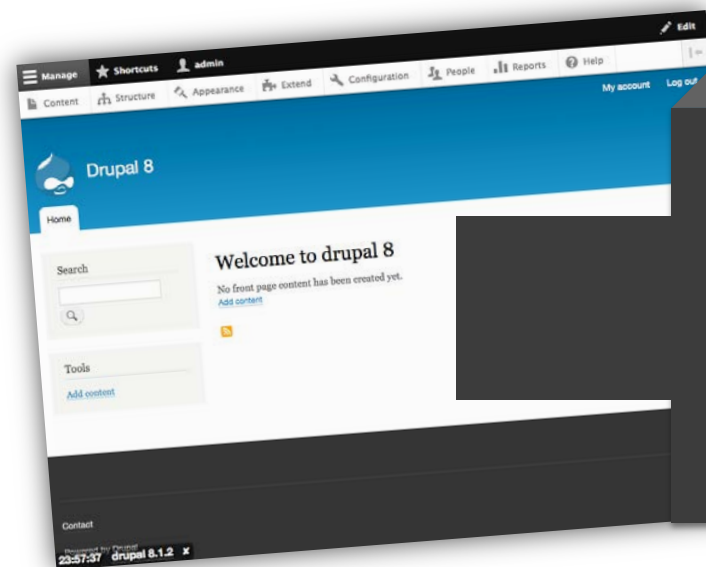
6. ***\$ drush config-export*** after PUSH and ***\$pull drush config-import*** after PULL

RESULTS

DRUPAL 8 WAS NE

It's really easy to create config structures

DEV
PROCESS



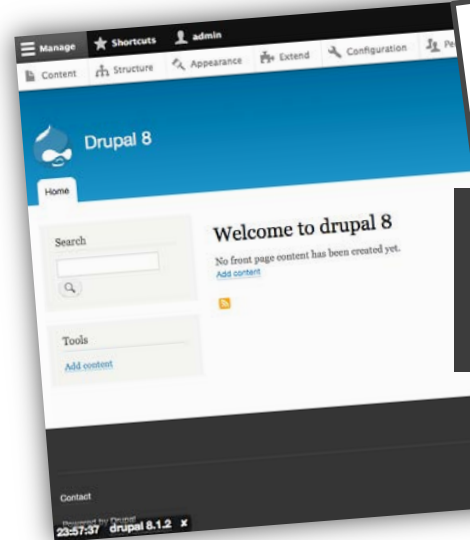
RESULTS

DRUPAL 8 WAS NE

It's really easy to create config structures

EVOLUTION

DEV PROCESS



Every day we design and develop websites, provide training, and write open source code.

Sign up for our monthly training newsletter

Upcoming Training Courses

Introduction to Drupal 8

2018-01-01 - 2018-01-01

Webinar Creating Mobile-Proof Layouts

2018-01-01 - 2018-01-01

Drupal 8 Training

2018-01-01 - 2018-01-01

Drupal 8 Site Building

2018-01-01 - 2018-01-01

Drupal Training

2018-01-01 - 2018-01-01

Happy Clients

ALLIANCE

CCA

vortex

travelocity

TRANS

Evolving Web is always looking for our next great client and project.

From the Blog

Find out what we're up to, learn about Drupal, web development, and our projects on the Evolving Web blog.



Drupal North Summit is Coming to Montreal - June 16-18



Custom Views Best Plugin for Upcoming Events



Drupal Community for Themes and Site Builders



Speed up Drupal 8 block rendering with Blockfaster

RESULTS

DRUPAL 8 WAS NE

It's really easy to create config structures

EVOLUTION

DEV
PROCESS

INTEGRATION



**CONFIG
MANAGEMENT**

DRUPAL 8 WAS NEEDED

It's really easy to create config structures

**STRUCTURAL
CHANGES**



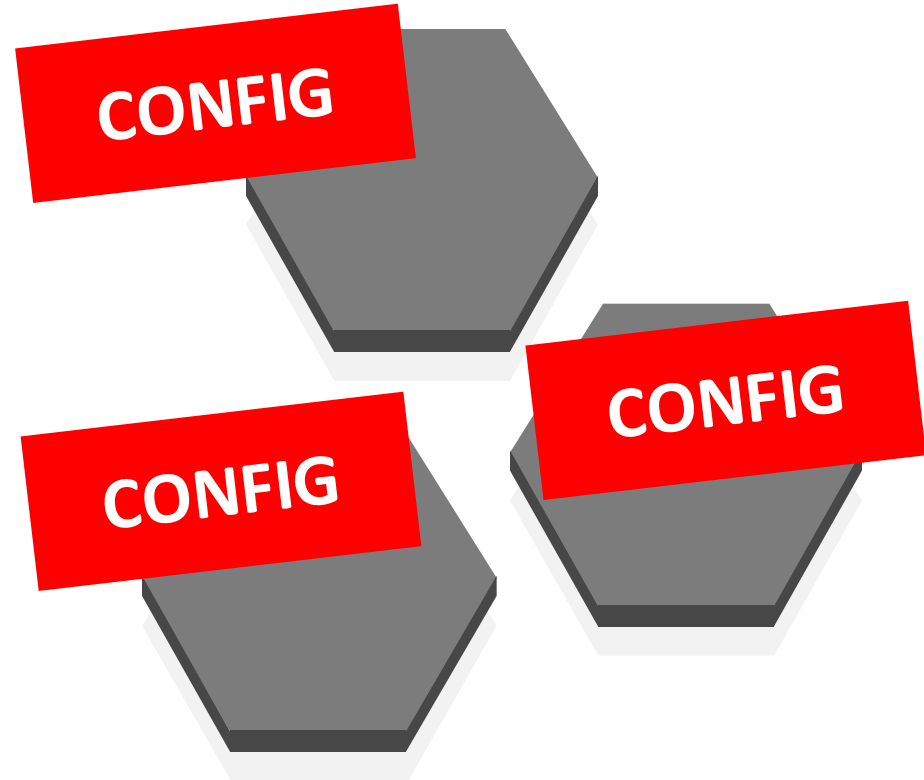
**DEV
PROCESS**

**CONTENT
UPDATES**

RESULTS

MODULES BRING THEIR OWN

And is really easy to create config structures



RESULTS

THEMES TOO!

With default block positioning, settings...



CONFIG



RESULTS

FEATURES STILL EXISTS!

As CM takes care of individual and general

***FEATURES IS ON
8.x-3.0-beta5***

RESULTS

FEATURES STILL EXISTS!

As CM takes care of individual and general

**FEATURES WAS INITIALLY
CONCEIVED TO BUNDLE &
REUSE FUNCTIONALITY**

RESULTS

CONTENT TALK IS LATER AT 4PM

Right here :)

DEV
PROCESS

CONTENT
UPDATES

The screenshot shows a conference page for Drupal North. The header includes 'LIVE UPDATES', 'DRUPAL' with a logo, 'NORTH', and 'CONFERENCE'. The main title is 'MOVING OUR COMPANY SITE TO DRUPAL 8: BREAK THE ICE!'. Below the title, it says 'English' and 'Backend & Dev-ops'. The speakers are listed as 'Dave Vasilevsky, Jorge Diaz' with an 'Audience Experience Level: Drupal Intermediate'. To the right, there are two photos of the speakers. Below the photos, the speakers' names are listed again, followed by their titles: 'Senior Theme Developer, Montreal, @jorgediazhav' and 'Acquia Certified Grand Master Developer currently working as Drupal Front-end Developer & Themer at Evolving Web, a Montreal based company with an amazing team of co-worker Drupal Developers.' The body text describes the talk: 'I will describe the entire process of moving our company website (Drupal 7, built in 2011) to Drupal 8. The site created from scratch. The new site is intended to be wide and descriptive of our company setup every step of the way. This talk will cover the migration process from Drupal 7 to Drupal 8. The talk will be divided into two parts: 1. Migration & Phases 2. Results.' At the bottom, it lists the speakers' experience: 'More than 8 years of experience delivering Drupal based General Purpose solutions for different sectors such as Job Boards, Product Portfolios, Geo Coding, Real Estate solutions, E-Commerce, Classifieds, Corporate and online Magazines/Newspapers. I have experience with: Project and Product Management, Drupal and Drush 8.x & 7.x, Drupal Console, Docker, Git, Tower, Firebug, Atom, Twig, PHP, Preprocess Functions, Drupal hooks, SASS, CSS, JavaScript, jQuery, and more.' The footer of the page shows the 'evolvingweb' logo and the Twitter handles '@djvasi' and '@jorgediazhav'.

THANKS!!!

For Your Precious
Time and Attention.

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QUESTIONS?

Please Don't Hesitate.

