



DUBLIN

DRUPALCON





Search API ecosystem in Drupal 8

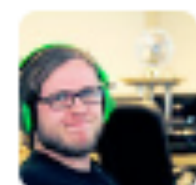
Joris Vercammen | @borisson

Site building





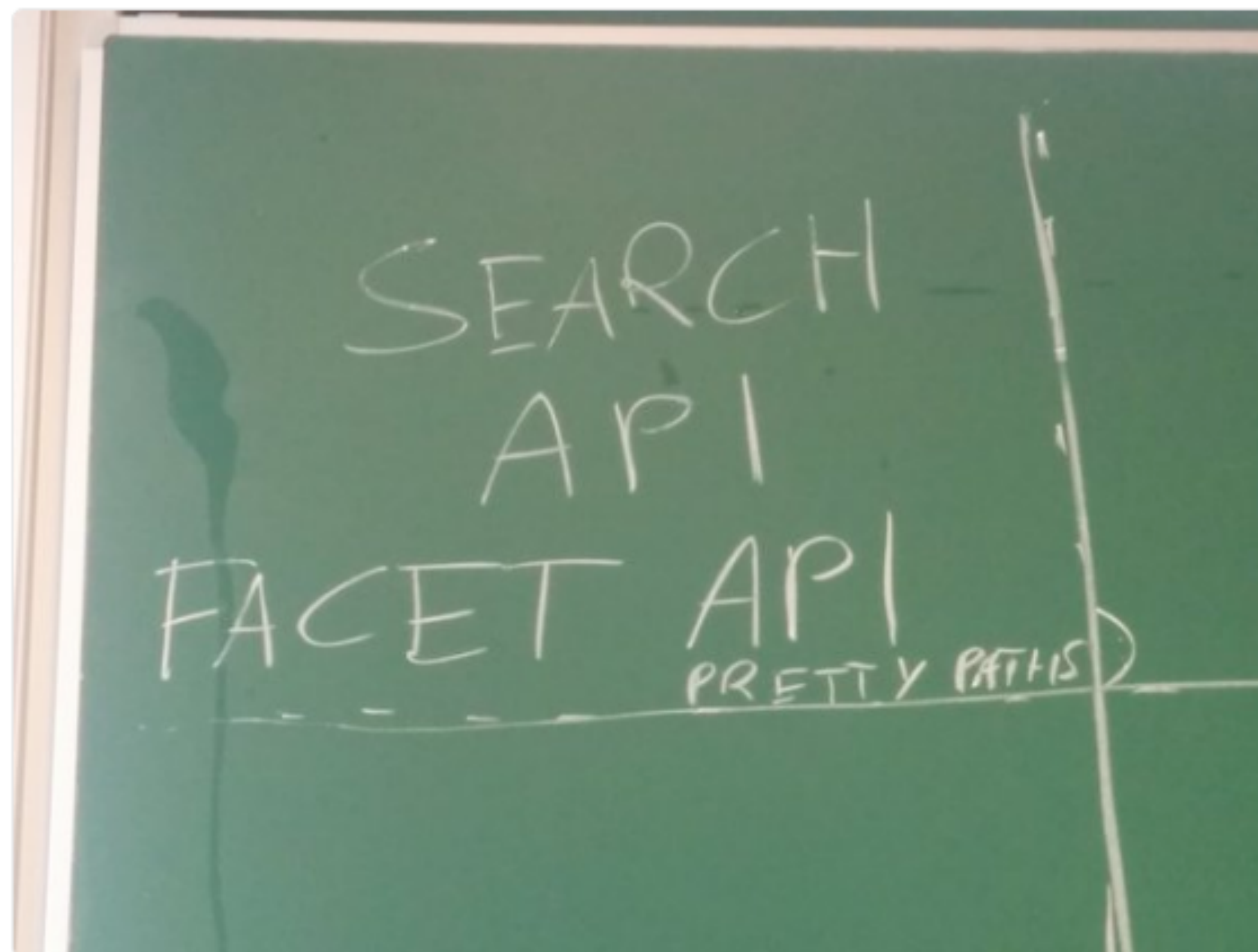
<https://events.drupal.org/dublin2016/sessions/search-api-ecosystem-drupal-8>



Joris Vercammen
@Borisson

Let the sprinting begin.

Vertaling weergeven



VIND-IK-LEUK

1



10:31 - 29 nov. 2015

- Search API
- Search API Solr
- Facets
- More addon modules
- Custom code

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Drupal 8

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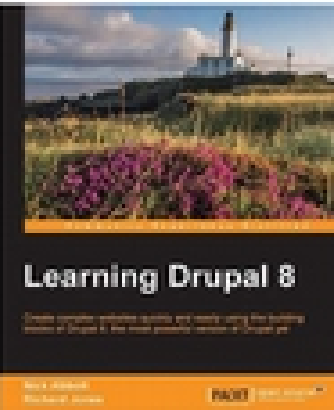
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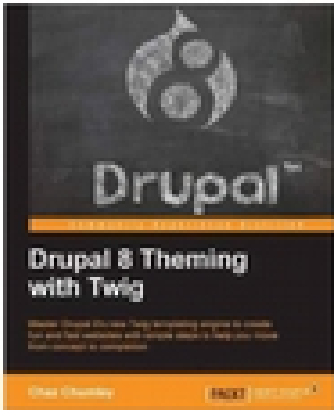
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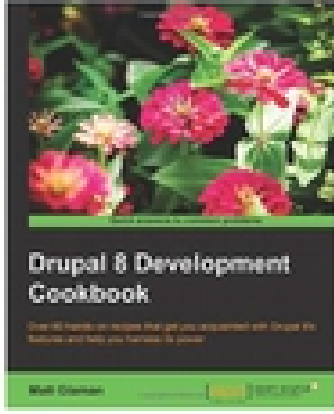
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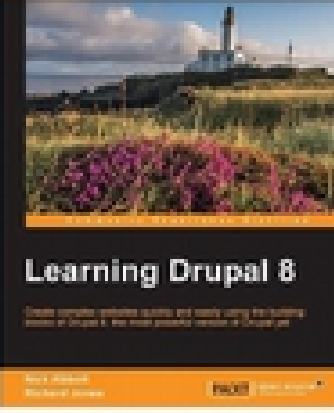
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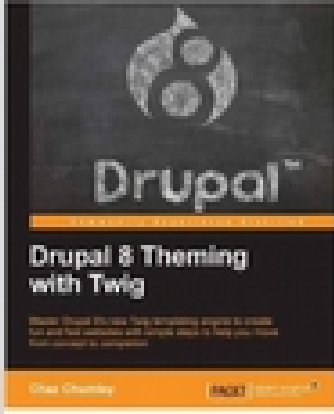
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Entities

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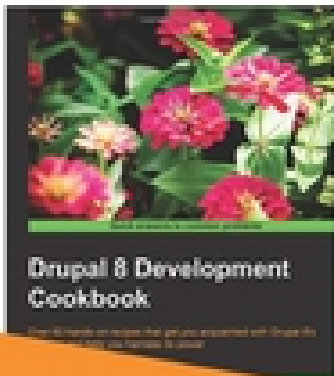
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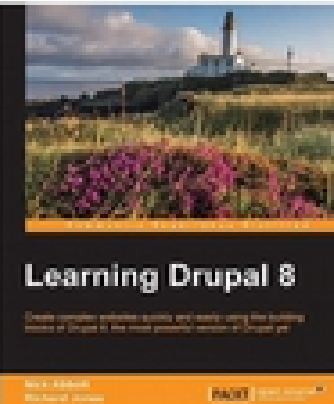
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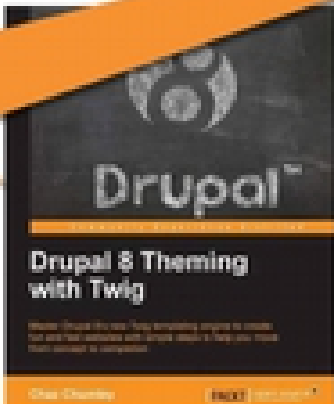
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Keywords

Facets

Filters

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- **Search API**
- Search API Solr
- Facets
- More add-on modules
- Custom code

- Introduction
- The big merge
- Influences
- Architecture
- Demo
- Open issues

- **Introduction**
- The big merge
- Influences
- Architecture
- Demo
- Open issues

- 2010 (d7)
- Generic and flexible search tools
 - Different data
 - Different search engines
 - Different types of user interfaces

- Build Views of your entities including advanced features like
 - Keywords
 - Facets
 - Filters
 - Sorts

- Introduction
- **The big merge**
- Influences
- Architecture
- Demo
- Open issues

- 3+ years in the making
- Crowdfunding campaign
- Google Summer of Code



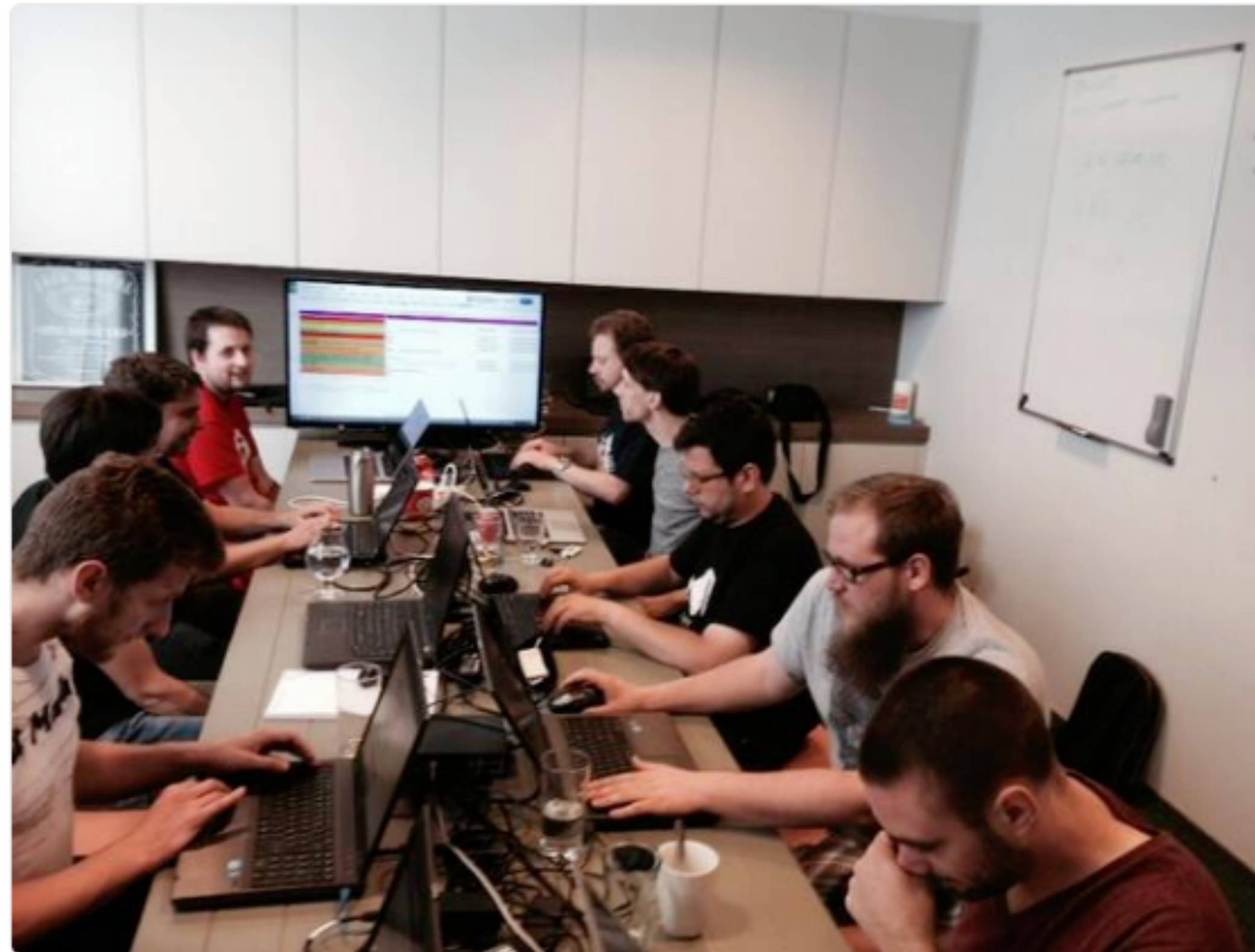
Jimmy Henderickx
@StryKaizer



Volg je nu

Drupal 8 Search API sprint impression at
[@Intracto](#) headquarters [#drupal](#)

Vertaling weergeven



RETWEETS

2

VIND-IK-LEUKS

4





Nick Veenhof
@Nick_vh



Volg Je nu

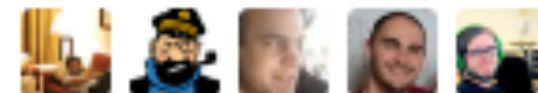
#drupalcon working hard on #facetapi! /cc
@cpliakas

🌐 Vertaling weergeven



RETWEETS
2

VIND-IK-LEUKS
3





Nick Veenhof
@Nick_vh



Following

Ah the memories! Search Api & Facet Api
#Drupal8 #Drupalcon Sprint /cc @Mollux
@StryKaizer @Borisson @jurdevries



LIKES

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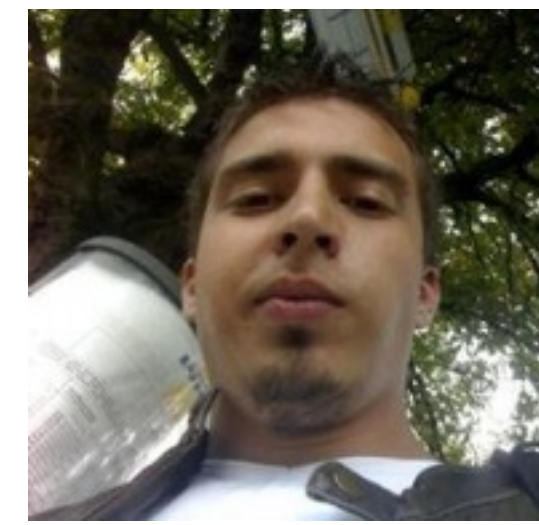
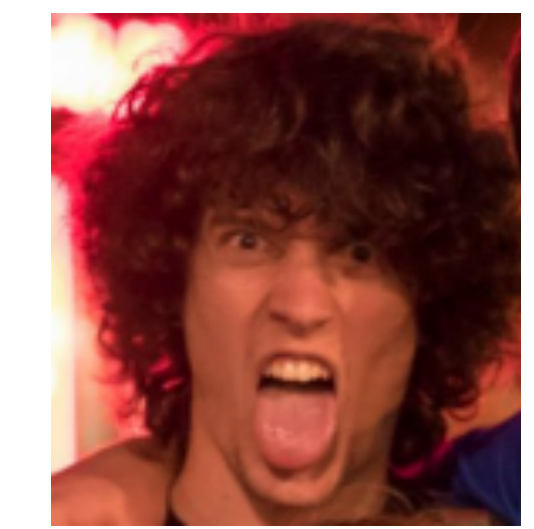
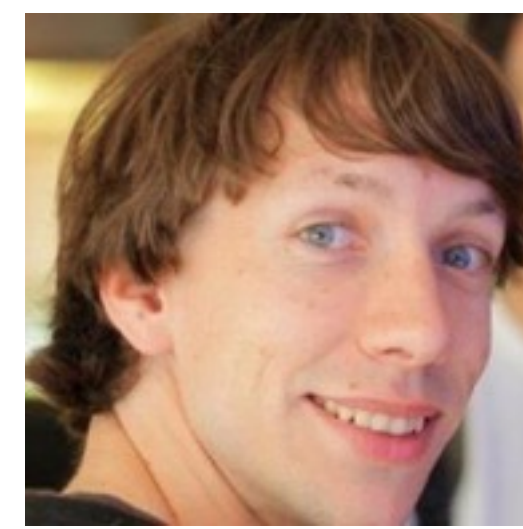


- Introduction
- The big merge
- **Influences**
- Architecture
- Demo
- Open issues

drupal.org

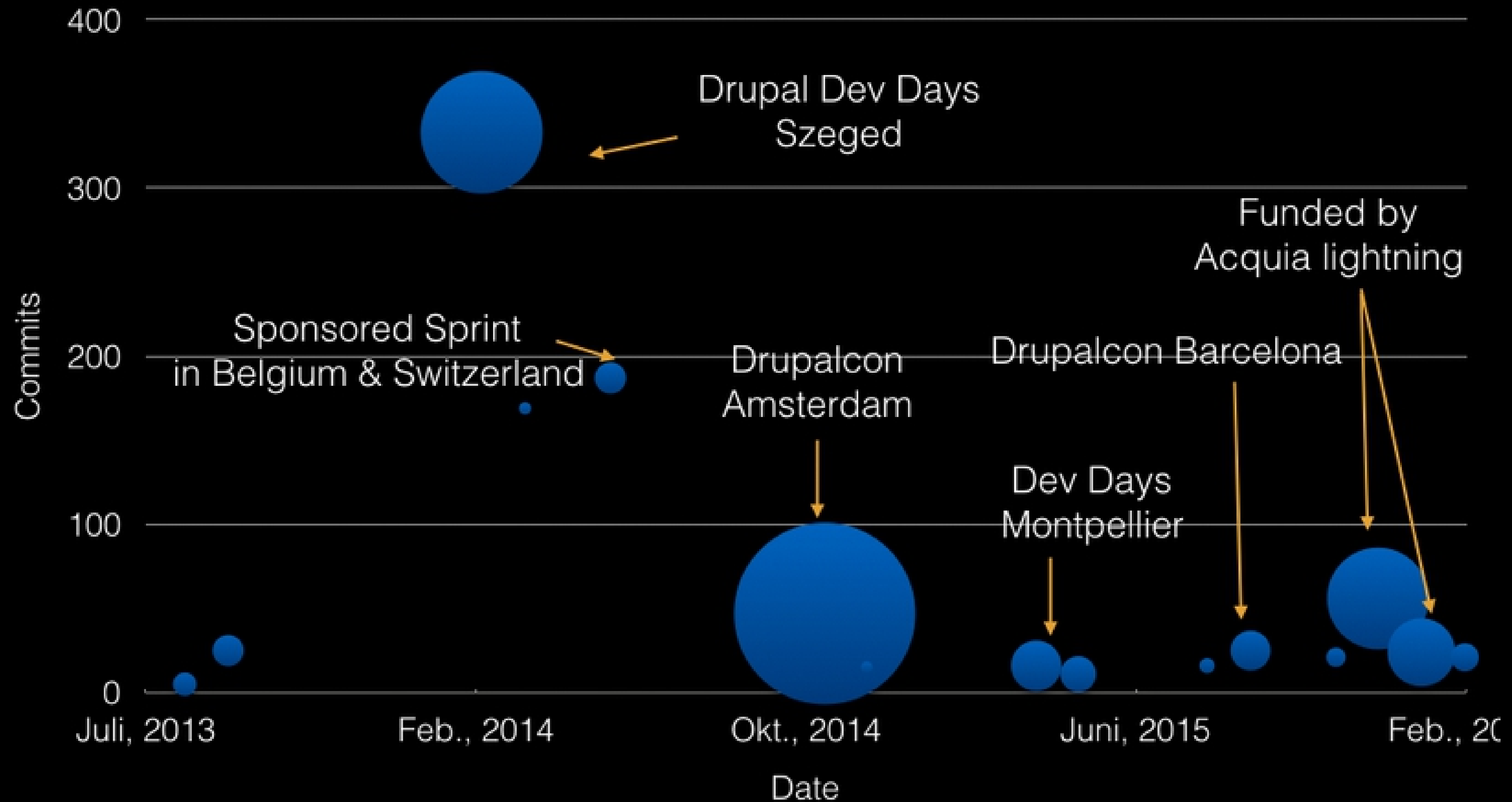
- Issue queues are powered with Search API Drupal 7 using the MySQL backend.

Community



• Search API Code Lines Added

Timeline

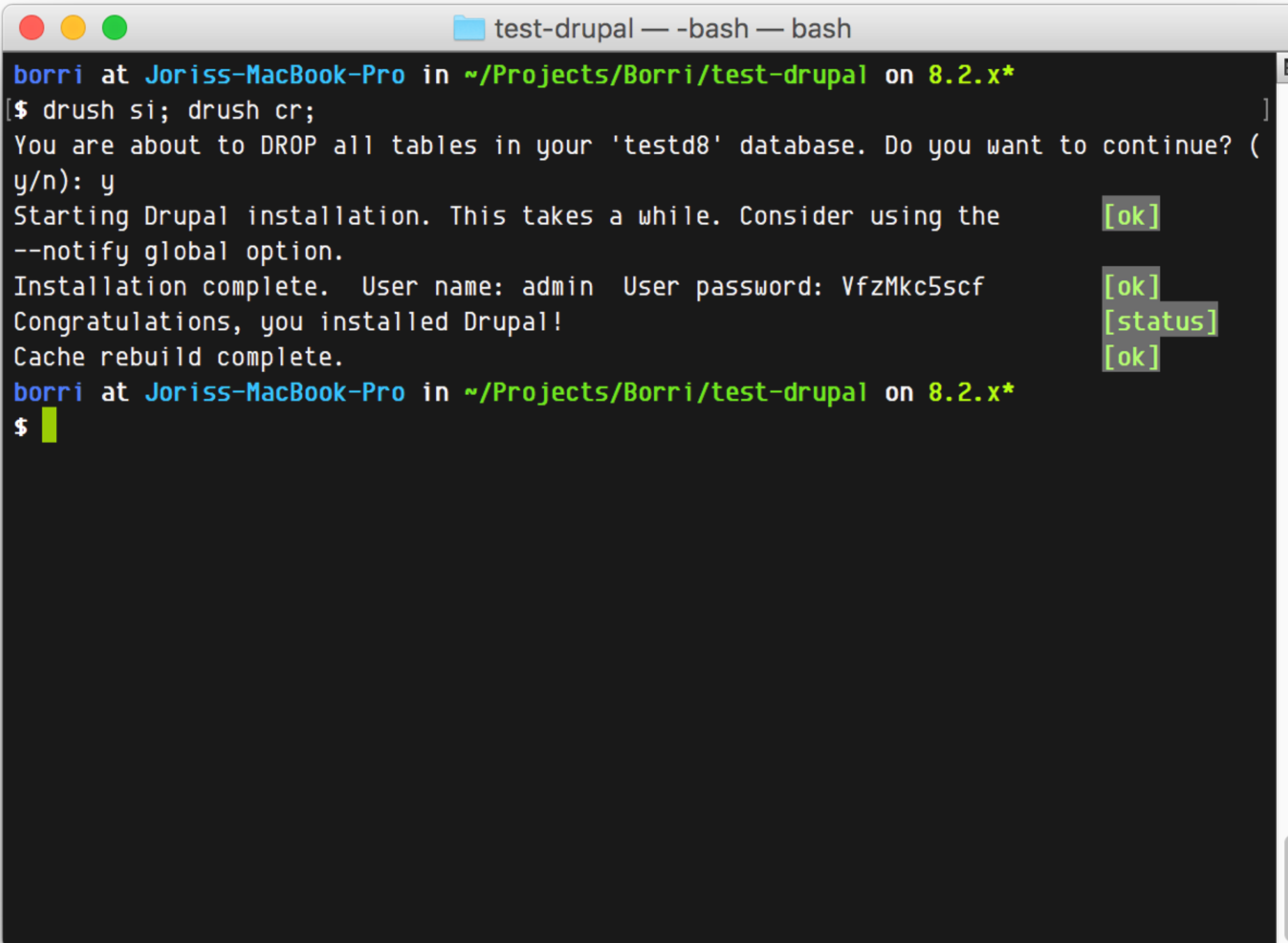


- Introduction
- The big merge
- Influences
- **Architecture**
- Demo
- Open issues

- Search index
- Search server
- Search Display

- modules
 - search_api
 - search_api_db
 - search_api_db_defaults

- Introduction
- The big merge
- Influences
- Architecture
- **Demo**
- Open issues



A terminal window titled "test-drupal — -bash — bash" with standard macOS window controls (red, yellow, green buttons). The terminal shows a user named "borri" at "Joriss-MacBook-Pro" in the directory "~/Projects/Borri/test-drupal" on a system with kernel version "8.2.x*". The user enters the command "\$ drush si; drush cr;". The terminal output includes a confirmation message about dropping tables in the 'testd8' database, followed by the start of a Drupal installation. It shows the completion of installation with the username 'admin' and password 'VfzMkc5scf', a congratulatory message, and a cache rebuild. On the right side of the terminal, there are three green highlighted boxes containing the text "[ok]", "[status]", and "[ok]" respectively. The prompt "\$" is followed by a green cursor bar.

```
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
→ [$ drush si; drush cr;
You are about to DROP all tables in your 'testd8' database. Do you want to continue? (
y/n): y
Starting Drupal installation. This takes a while. Consider using the [ok]
--notify global option.
Installation complete. User name: admin User password: VfzMkc5scf [ok]
Congratulations, you installed Drupal! [status]
Cache rebuild complete. [ok]
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
$ █
```

SafariFileEditViewHistoryBookmarksDevelopWindowHelp

search.dev/admin/modules

HomeManageShortcutsadmin

ContentStructureAppearanceExtendConfigurationPeopleReportsHelp

Extend

ListUpdateUninstall

Home » Administration

⚠

There was a problem checking available updates for Drupal. See the available updates page for more information and to install your missing updates.

There are updates available for one or more of your modules or themes. To ensure the proper functioning of your site, you should update as soon as possible. See the available updates page for more information and to install your missing updates.

Download additional contributed modules to extend your site's functionality.

Regularly review and install available updates to maintain a secure and current site. Always run the update script each time a module is updated.

+ Install new module

Filter by name or description

Enter a part of the module name or description

▼ CORE

☐	Actions	▶ Perform tasks on specific events triggered within the system.
☐	Activity Tracker	▶ Enables tracking of recent content for users.
☐	Aggregator	▶ Aggregates syndicated content (RSS, RDF, and Atom feeds) from external sources.
☒	Automated Cron	▶ Provides an automated way to run cron jobs, by executing them at the end of a server response.
☐	Ban	▶ Enables banning of IP addresses.
☒	Block	▶ Controls the visual building blocks a page is constructed with. Blocks are boxes of content rendered into an area, or region, of a web page.
☐	Book	▶ Allows users to create and organize related content in an outline.
☒	Breakpoint	▶ Manage breakpoints and breakpoint groups for responsive designs.
☒	CKEditor	▶ WYSIWYG editing for rich text fields using CKEditor.
☒	Color	▶ Allows administrators to change the color scheme of compatible themes.

https://www.youtube.com/watch?v=hA1N6Xggth8

SafariFileEditViewHistoryBookmarksDevelopWindowHelp

search.dev/admin/config/search/search-api

Search API | D8 contributingSearch Content | D8 contributing

HomeManageShortcutsadmin

ContentStructureAppearanceExtendConfigurationPeopleReportsHelp

Search API ☆

Home » Administration » Configuration » Search and metadata

Below is a list of indexes grouped by the server they are associated with. A server is the definition of the actual indexing, querying and storage engine (for example, an Apache Solr server, the database, ...). An index defines the indexed content (for example, all content and all comments on "Article" posts).

+ Add server+ Add index

TYPE	NAME	STATUS	OPERATIONS
Server	Database Server Default database server created by the Database Search Defaults module	✓	Edit ▾
Index	Default content index Default content index created by the Database Search Defaults module	✓	Edit ▾

<https://www.youtube.com/watch?v=LKN-fv3julg>

- Introduction
- The big merge
- Influences
- Architecture
- Demo
- **Open issues**

- Hierarchical entities [#2625152]
- Overhaul / Improve administration UI [#2387893]
- Improve Fields UI [#2641388]
- Config overrides for search entities [#2682369]
- Fix test fails on php5.x on testbot [#2784849]
- Documentation and tests

Current results

7.x-1.x-dev

PHP 5.3 & MySQL 5.5, D7 24 pass

PHP 7 & MySQL 5.5, D7 24 pass

8.x-1.x-dev

PHP 7 & MySQL 5.5, D8.3 291 pass

PHP 7 & PostgreSQL 9.1, D8.3 291 pass

PHP 7 & SQLite 3.8, D8.3 291 pass

- Search API
- **Search API Solr**
- Facets
- More addon modules
- Custom code

- Introduction
- Demo

- **Introduction**

- Demo

- solarium

- Introduction
- **Demo**

```
test-drupal — -bash — bash
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
→ [$ composer config repositories.drupal composer https://packagist.drupal-composer.org ]
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
[$ composer require "drupal/search_api_solr 8.1.x-dev" ]
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
- Installing solarium/solarium (3.5.1)
  Downloading: 100%

> Drupal\Core\Composer\Composer::vendorTestCodeCleanup
- Installing drupal/search_api (8.1.0-alpha14)
  Downloading: 100%

> Drupal\Core\Composer\Composer::vendorTestCodeCleanup
- Installing drupal/search_api_solr (dev-8.x-1.x 3cb9e29)
  Cloning 3cb9e29094e08e616638258bf32bc6f323c92258

> Drupal\Core\Composer\Composer::vendorTestCodeCleanup
Writing lock file
Generating autoload files
> Drupal\Core\Composer\Composer::preAutoLoadDump
> Drupal\Core\Composer\Composer::ensureHtaccess
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
$
```

```
test-drupal — -bash — bash
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
[$ composer config repositories.drupal composer https://packagist.drupal-composer.org ]
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
→ [$ composer require "drupal/search_api_solr 8.1.x-dev" ]
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
- Installing solarium/solarium (3.5.1)
  Downloading: 100%

> Drupal\Core\Composer\Composer::vendorTestCodeCleanup
- Installing drupal/search_api (8.1.0-alpha14)
  Downloading: 100%

> Drupal\Core\Composer\Composer::vendorTestCodeCleanup
- Installing drupal/search_api_solr (dev-8.x-1.x 3cb9e29)
  Cloning 3cb9e29094e08e616638258bf32bc6f323c92258

> Drupal\Core\Composer\Composer::vendorTestCodeCleanup
Writing lock file
Generating autoload files
> Drupal\Core\Composer\Composer::preAutoLoadDump
> Drupal\Core\Composer\Composer::ensureHtaccess
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
$
```

```
test-drupal — -bash — bash
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
→ [$ drush en search_api_solr -y;
The following extensions will be enabled: search_api_solr
Do you really want to continue? (y/n): y
search_api_solr was enabled successfully. [ok]
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
$
```

```
test-drupal — -bash — bash
borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
→ [$ solr start
Waiting up to 30 seconds to see Solr running on port 8983 []
Started Solr server on port 8983 (pid=98102). Happy searching!

borri at Joriss-MacBook-Pro in ~/Projects/Borri/test-drupal on 8.2.x*
$
```

Shell

borri at Joriss-MacBook-Pro in ~
\$ tail -f -n0 /usr/local/Cellar/solr/5.4.0/server/logs/solr.log
[]

search.dev/admin/config/search/search-api

Search API | D8 contributing

Search Content | D8 contributing

Home Manage Shortcuts admin

Content Structure Appearance Extend Configuration People Reports Help

Search API ☆

[Home](#) » [Administration](#) » [Configuration](#) » [Search and metadata](#)

Below is a list of indexes grouped by the server they are associated with. A server is the definition of the actual indexing, querying and storage engine (for example, an Apache Solr server, the database, ...). An index defines the indexed content (for example, all content and all comments on "Article" posts).

+ Add server

+ Add index

TYPE	NAME	STATUS	OPERATIONS
Server	Database Server Default database server created by the Database Search Defaults module	✓	Edit
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<https://www.youtube.com/watch?v=QAbnMCA2utI>

- Search API
- Search API Solr
- **Facets**
- More addon modules
- Custom code

- Architecture
- Demo
- Todo

- **Architecture**

- Demo

- Todo

- Facet
- FacetSource

- Processor
- Widget
- Url processor

- modules
- Facets
- Rest Facets
- Core Search Facets

- Architecture
- **Demo**
- Todo



Shell

Shell

borri at Joriss-MacBook-Pro in ~/Projects/Borri/search-drupal on 8.3.x*

\$ drush en facets -y

The following extensions will be enabled: facets

Do you really want to continue? (y/n): y

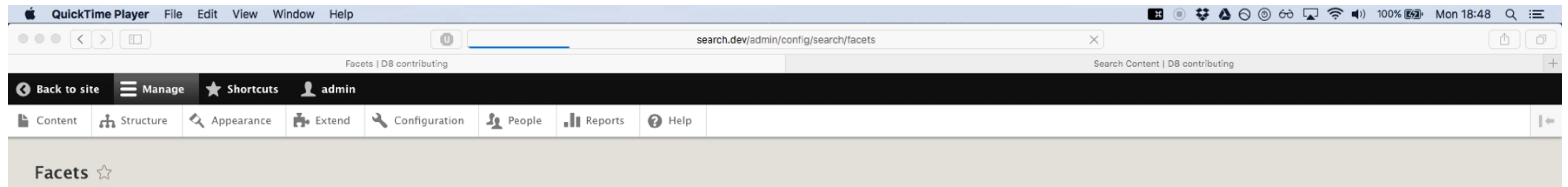
facets was enabled successfully.

[ok]

facets defines the following permissions: administer facets

borri at Joriss-MacBook-Pro in ~/Projects/Borri/search-drupal on 8.3.x*

\$



<https://www.youtube.com/watch?v=31p77ka8Tws>

- Architecture
- Demo
- **Todo**

- Implement pretty paths [#2677728]
- Hierarchy [#2598304]
- Bring facets up to date with Search API's beta 1 [#2794745]
- Create a date query type [#2611812]
- Add a solid slider and range widget [#2755663]
- Add current search block / search summary [#2735891]
- Documentation + tests

- Search API
- Search API Solr
- Facets
- **More addon modules**
- Custom code

- Search API
 - **Beta 2**
- Search API Page
 - Alpha 11
- Search API Solr
 - Alpha 6
- Search API Sorts
 - Alpha 1
- Elastic Search
 - Development version
- Search API Autocomplete
 - Development version
- Search API attachments
 - Alpha 4
- Search API Exclude Entity
 - Development version

- Facets
 - Alpha 5
- Facets pretty paths
 - Sandbox module available

- Search API
- Search API Solr
- Facets
- More addon modules
- **Custom code**

- ▼  custom_code
 - ▼  src
 - ▼  Plugin
 - ▼  facets
 - ▼  processor
 -  IgnoreTitleCustomRule.php
 - ▼  search_api
 - ▼  processor
 -  IgnoreNodes.php
 -  custom_code.info.yml

- Search API Processor.
- Drupal\search_api\Processor\ProcessorInterface
- Settings
- “ I ignore”

```
<?php

namespace Drupal\custom_code\Plugin\search_api\processor;

use Drupal\node\NodeInterface;
use Drupal\search_api\IndexInterface;
use Drupal\search_api\Processor\ProcessorPluginBase;

/**
 * Excludes unpublished nodes from node indexes.
 */
* @SearchApiProcessor(
*   id = "ignore_nodes",
*   label = @Translation("Ignore nodes for custom rules"),
*   description = @Translation("Don't index nodes according to our custom rules."),
*   stages = {
*     "preprocess_index" = -50
*   }
* )
*/
class IgnoreNodes extends ProcessorPluginBase {

  /**
   * {@inheritdoc}
   */
  public static function supportsIndex(IndexInterface $index) {
    // Make sure that this processor only works on processors that have nodes
    // indexed.
    foreach ($index->getDataSources() as $datasource) {
      if ($datasource->getEntityTypeId() == 'node') {
        return TRUE;
      }
    }
    return FALSE;
  }

  /**
   * {@inheritdoc}
   */
  public function preprocessIndexItems(array &$items) {
    foreach ($items as $item_id => $item) {
      $object = $item->getOriginalObject()->getValue();

      // Our nodes have " | ignore" in the title when they should be ignored and
      // not indexed, this is hardcoded information because of the import from
      // the external datasource.
      if ($object instanceof NodeInterface) {
        if (strpos($object->getTitle(), ' | ignore') !== FALSE) {
          unset($items[$item_id]);
        }
      }
    }
  }
}
```

```
<?php
namespace Drupal\custom_code\Plugin\search_api\processor;

use Drupal\node\NodeInterface;
use Drupal\search_api\IndexInterface;
use Drupal\search_api\Processor\ProcessorPluginBase;
```

```
/**
```

```
 * Excludes unpublished nodes from node indexes.
 *
 * @SearchApiProcessor(
 *   id = "ignore_nodes",
 *   label = @Translation("Ignore nodes for custom rules"),
 *   description = @Translation("Don't index nodes according to our
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 *   stages = {
 *     "preprocess_index" = -50
 *   }
 * )
 */
```

```
class IgnoreNodes extends ProcessorPluginBase {

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   * {@inheritdoc}
   */
  public static function supportsIndex(IndexInterface $index) {
    // Make sure that this processor only works on processors that have nodes
    // indexed.
    foreach ($index->getDataSources() as $datasource) {
      if ($datasource->getEntityTypeId() == 'node') {
        return TRUE;
      }
    }
    return FALSE;
  }

  /**
   * {@inheritdoc}
   */
  public function preprocessIndexItems(array &$items) {
    foreach ($items as $item_id => $item) {
      $object = $item->getOriginalObject()->getValue();

      // Our nodes have " | ignore" in the title when they should be ignored and
      // not indexed, this is hardcoded information because of the import from
      // the external datasource.
      if ($object instanceof NodeInterface) {
        if (strpos($object->getTitle(), ' | ignore') !== FALSE) {
          unset($items[$item_id]);
        }
      }
    }
  }
}
```

```
<?php

namespace Drupal\custom_code\Plugin\search_api\processor;

use Drupal\node\NodeInterface;
use Drupal\search_api\IndexInterface;
use Drupal\search_api\Processor\ProcessorPluginBase;

/**
 * Excludes unpublished nodes from node indexes.
 */
/**
 * @SearchApiProcessor(
 *   id = "ignore_nodes",
 *   label = @Translation("Ignore nodes for custom rules"),
 *   description = @Translation("Don't index nodes according to our custom rules."),
 *   stages = [
 *     "preprocess_index" = -50
 *   ]
 * )
 */
class IgnoreNodes extends ProcessorPluginBase {

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

```
    public static function supportsIndex(IndexInterface $index) {
        // Make sure that this processor only works on processors that
        // have nodes
        // indexed.
        foreach ($index->getDatasources() as $datasource) {
            if ($datasource->getEntityTypeId() == 'node') {
                return TRUE;
            }
        }
        return FALSE;
    }
}
```

```
/**
 * {@inheritdoc}
 */
public function preprocessIndexItems(array $items) {
    foreach ($items as $item_id => $item) {
        $object = $item->getOriginalObject()->getValue();

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        }
    }
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```

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    // Make sure that this processor only works on processors that have nodes
    // indexed.
    foreach ($index->getDataSources() as $datasource) {
      if ($datasource->getEntityTypeId() == 'node') {
        return TRUE;
      }
    }
    return FALSE;
  }

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

```
public function preprocessIndexItems(array &$amp;items) {
  foreach ($items as $item_id => $item) {
    $object = $item->getOriginalObject()->getValue();
```

```
    // Our nodes have " | ignore" in the title when they should be ignored and
    // not indexed, this is hardcoded information because of the import from
    // the external datasource.
```

```
    if ($object instanceof NodeInterface) {
      if (strpos($object->getTitle(), ' | ignore') !== FALSE) {
        unset($items[$item_id]);
```

```
      }
```

```
    }
```

```
  }
```

```
}
```

```
}
```

Should I use these now?



Kristof De Jaeger
@swentel



Volg je nu

Look: Search API, Facet API, Solr and Display Suite. I'd say we can start using Drupal 8 :)

Vertaling weergeven

 Search API - Solr

[Home](#)

[Home](#)

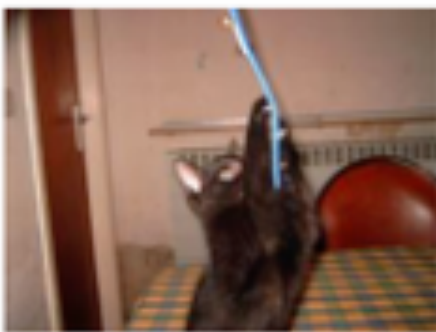
Facet block

[article \(1\)](#)

Search

cute

Search



Especially if they are cute and cuddly

RETWEETS

34

VIND-IK-LEUKS

19



15:03 - 23 okt. 2015

Questions?



JOIN US FOR CONTRIBUTION SPRINTS

First Time Sprinter Workshop - 9:00-12:00 - Room Wicklow2A

Mentored Core Sprint - 9:00-18:00 - Wicklow Hall 2B

General Sprints - 9:00 - 18:00 - Wicklow Hall 2A



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WHAT DID YOU THINK?

Evaluate This Session

events.drupal.org/dublin2016/schedule

THANK YOU!

