

DRUPAL CAMP ATLANTA 2018

Progressive Decoupling

React + Drupal + Apache Solr



November 9, 2018

Prepared by
Chris Russo, CEO

Drupalcamp Atlanta 2018



A background image showing two men in a modern office environment. On the left, a man with a beard and short dark hair, wearing a light pink button-down shirt, is smiling and looking towards the right. On the right, a man with short dark hair, wearing a light pink shirt under a grey checkered blazer, is also smiling and looking towards the left, with his hands slightly raised as if in conversation. The background is a bright, out-of-focus office space with large windows and modern lighting.

We design digital products that users love

Savas Labs is a strategy, design, and development agency rooted in Durham, NC

We craft Drupal web systems that propel organizations

WHO AM I?



 United States

Current Role(s):
CEO



History

On Drupal.org for 11 years 4 months

Drupal events:

DrupalCon Chicago 2011

DrupalCon New Orleans 2016

DrupalCon Baltimore 2017

DrupalCon Nashville 2018

Projects

[Tournament](#) (294 commits)

[Translatable Regions](#) (5 commits)

[User Revision](#) (1 commit)

Total: 300 commits



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USHER



SAVAS

SESSION GOALS

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WORKSHOP SEARCH



Introduction To Solarplate Etching
Journey to the Unknown
Join Dan Weiden in this adventuresome exploration of Solarplate, a safer alternative high-quality printmaking process that uses sunlight and water instead of toxic chemicals.


This journey leads you to untouched parts of your artistic self...

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An Introduction To Yin Yoga
Yin Yoga uses long held postures that support us in accessing the deeper, more Yin part of ourselves. In this workshop we explore how Yin practice, with its ancient yogic roots, can positively affect our physical, energetic, and emotional bodies...


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An Omega Women's Leadership Center Program: Financial Literacy & Beyond
Creating the Lives We Want
Leadership requires thoughtful choices in a variety of areas—including money. Yet financial acumen is a skill set for which most women have received little, if any, formal education.

During this inspiring, uplifting course for women, we...

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Insight Meditation For Beginners
Developing a Calm & Clear Mind
Insight Meditation, also known as Vipassana Meditation, is a simple technique that originated in the Buddha's teachings more than 2,500 years ago. Its practice teaches us in a gentle, consistent way to calm and steady our mind by grounding our...

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Live Demo

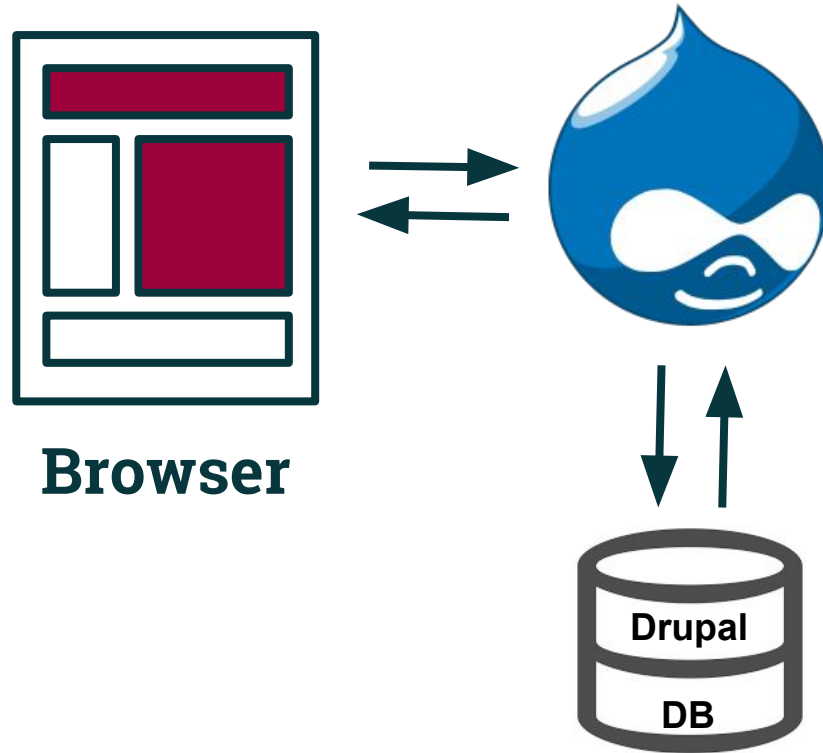
OUR CLIENT

“The search application Savas built strikes the perfect balance of catering to our diverse audiences' specific interests, while showcasing the breadth of all Omega has to offer. We love it.”

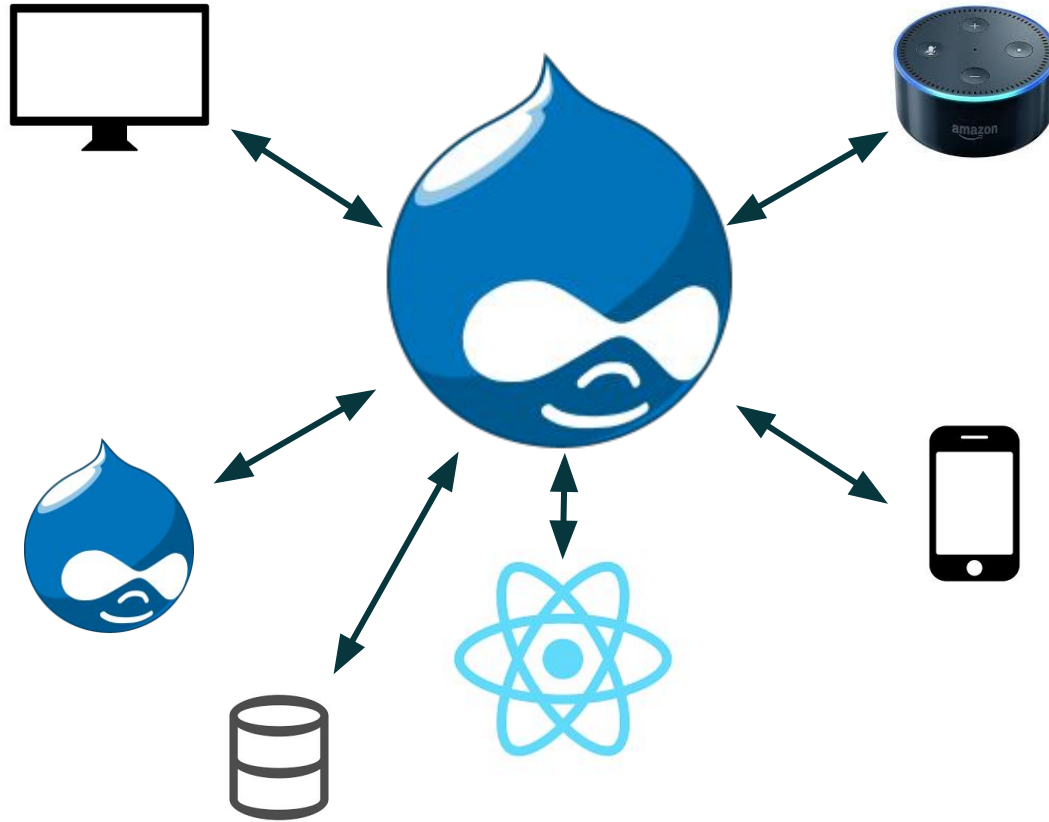


Terminology

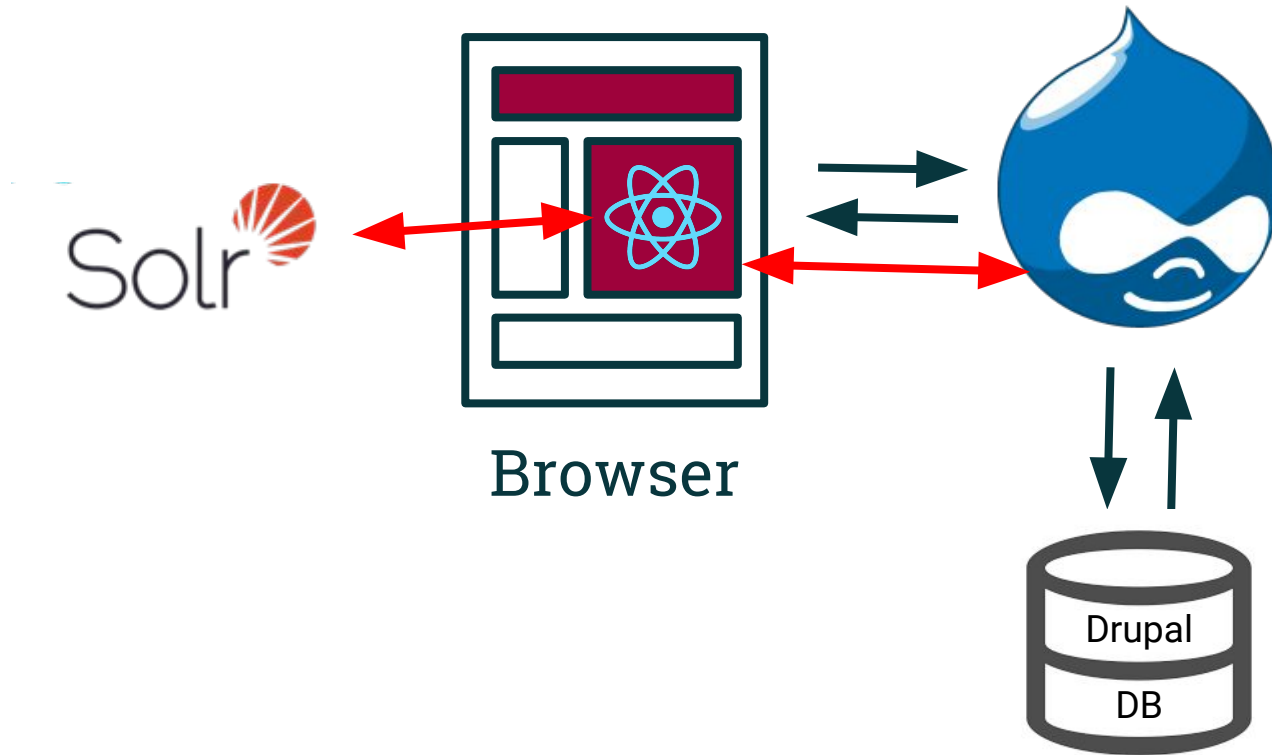
TRADITIONAL DRUPAL



DECOUPLED / HEADLESS DRUPAL



PROGRESSIVE DECOUPLING



DRUPAL SEARCH ECOSYSTEM



Core Search

Search API

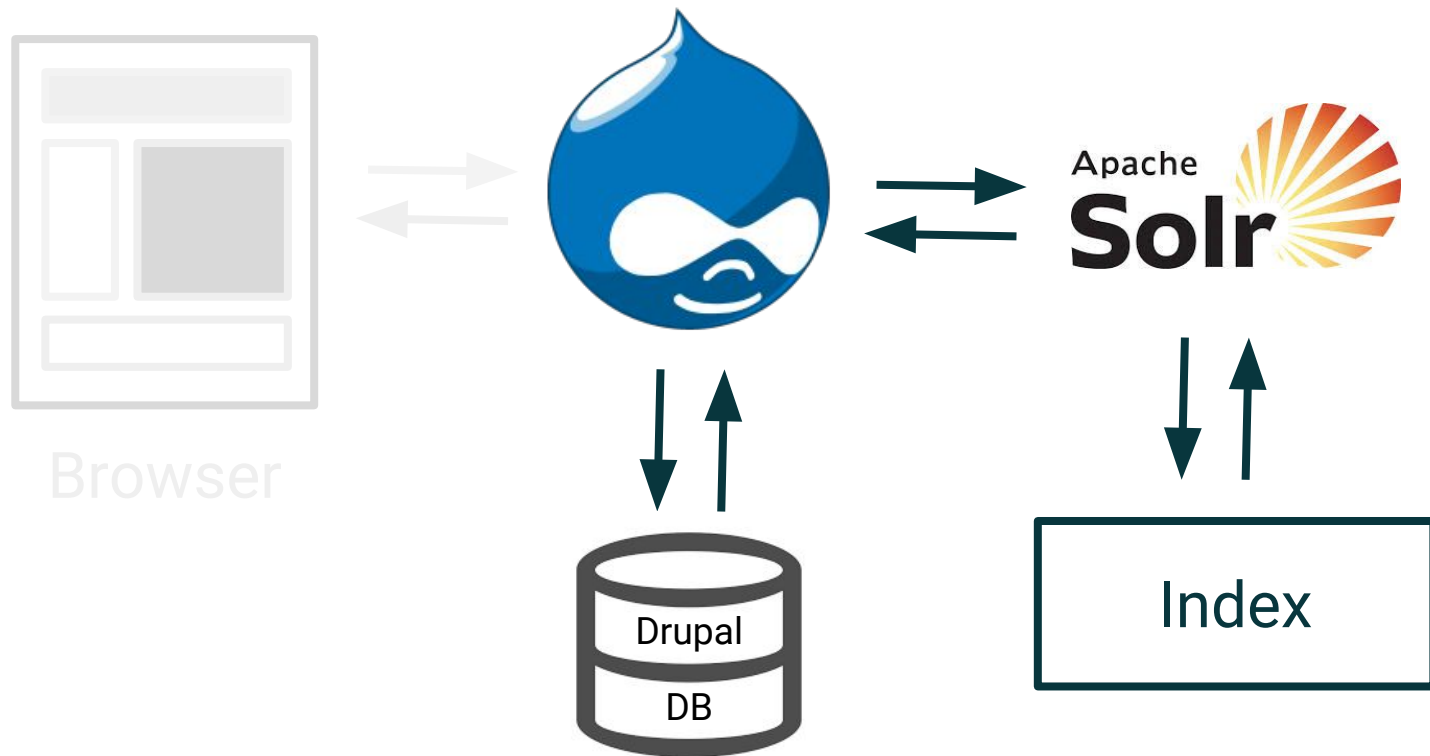
Search API
Solr Search

Search API
Pages

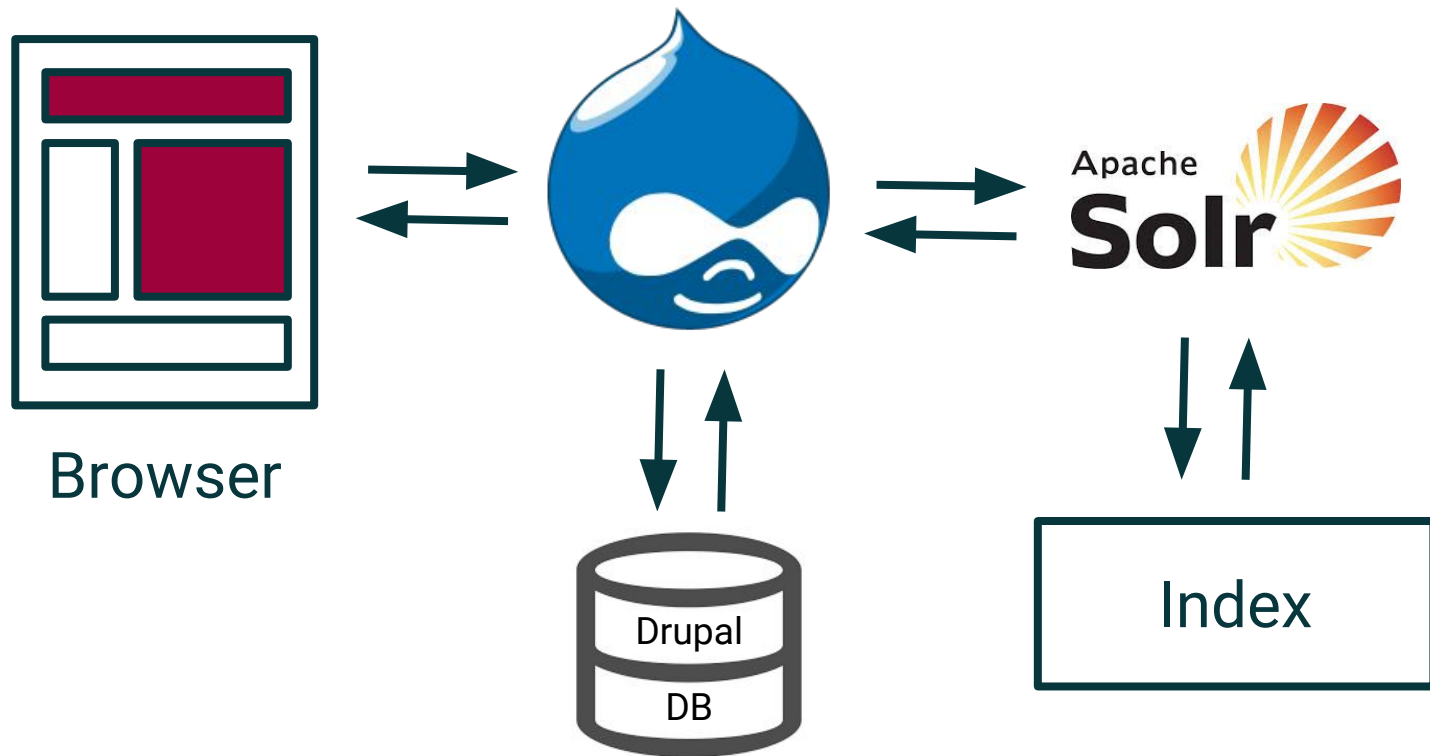
Search API
Autocomplete

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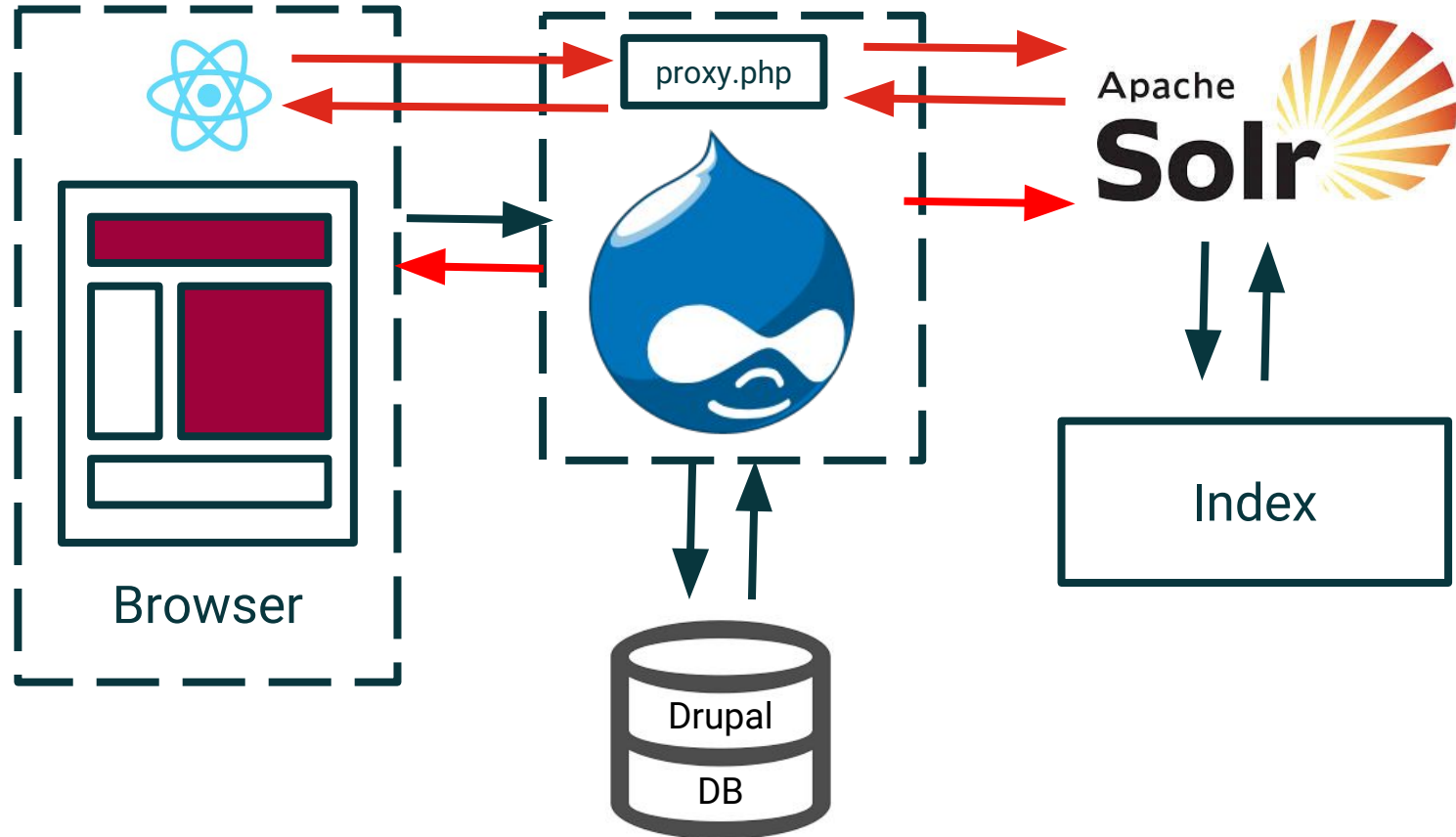
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PDA

Progressively Decoupled Architecture

ARCHITECTURE



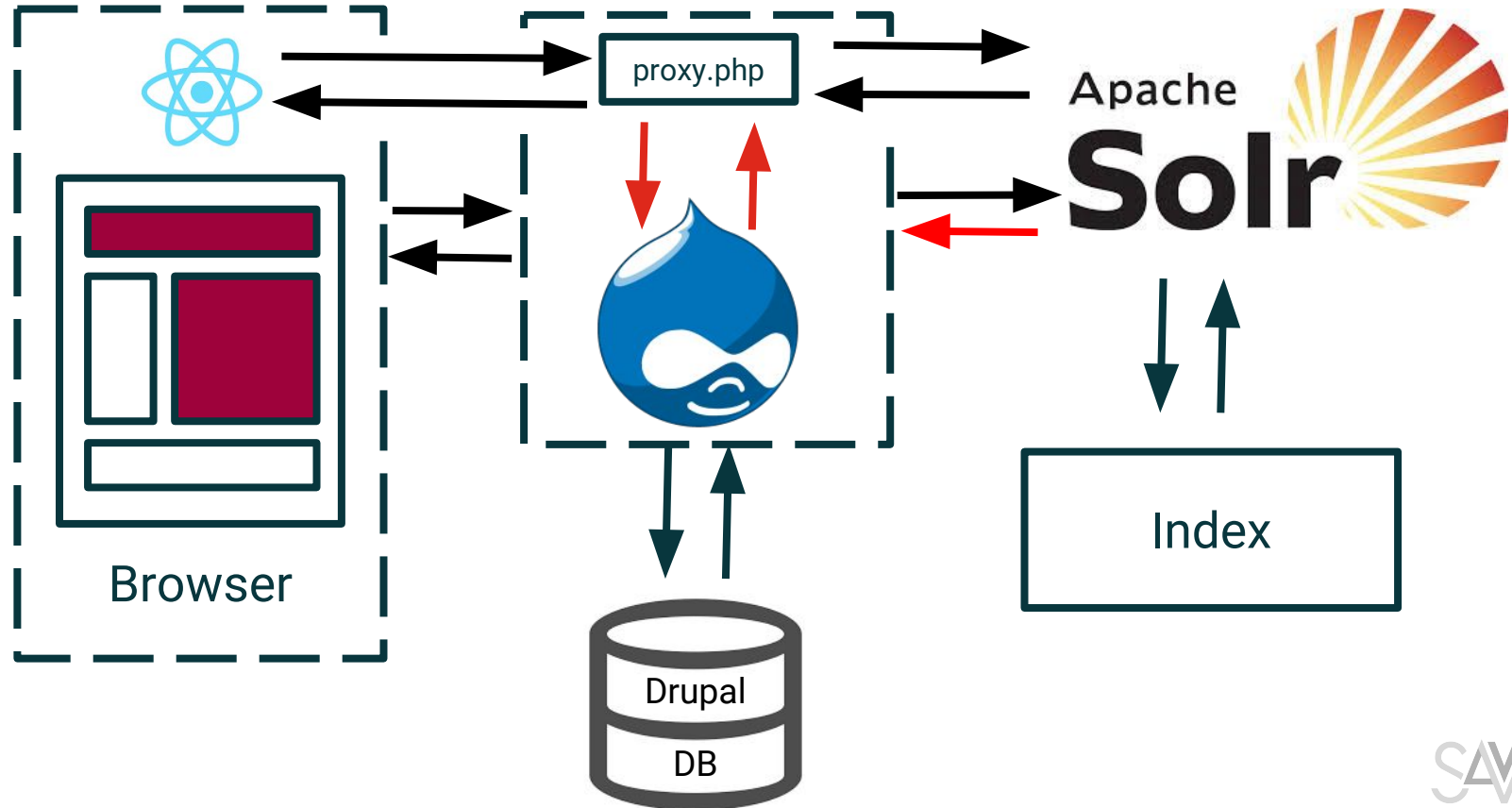
```
<div class="main-container">
  <a id="main-content"></a>
  <noscript>
    <div class="region region-content">
      <div class="container">
        <div class="messages error">
          <p>Sorry, you must enable JavaScript to use the search page.</p>
        </div>
      </div>
    </div>
  </noscript>
  <div id="js-solr-search" class="main-content solr-search container"></div>
</div>
```

```
/**
 * Implements hook_preprocess_html().
 */
function omega_solr_preprocess_html(&$variables) {
  $current_path = current_path();
  if ($current_path === 'search') {

    drupal_add_js([
      'omegaSolr' => [
        'topics' => _omega_solr_get_topics_list(),
        'teachers' => _omega_solr_get_teachers_list(),
        'keyInitiatives' => _omega_solr_get_key_initiative_list(),
        'userIsPaidMember' => _omega_membership_is_paid_member(),
      ],
    ], options: 'setting');

    // Reference your own stylesheet.
    drupal_add_js(
      data: drupal_get_path( type: 'module', name: 'omega_solr') . '/js/dist/omega-solr-app.js',
      ['weight' => 1, 'scope' => 'footer']
    );
  }
}
```


AUTOCOMPLETE

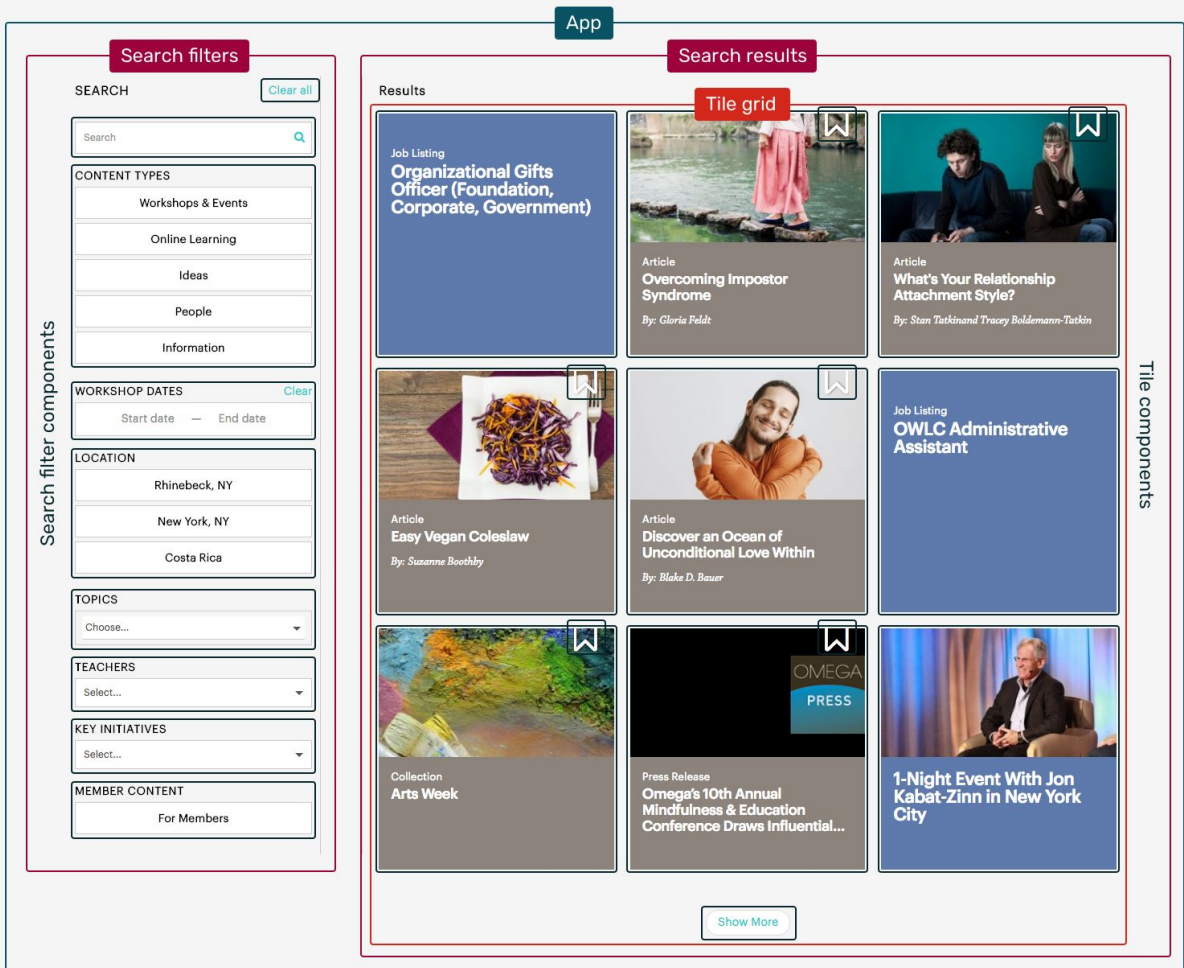




React Architecture

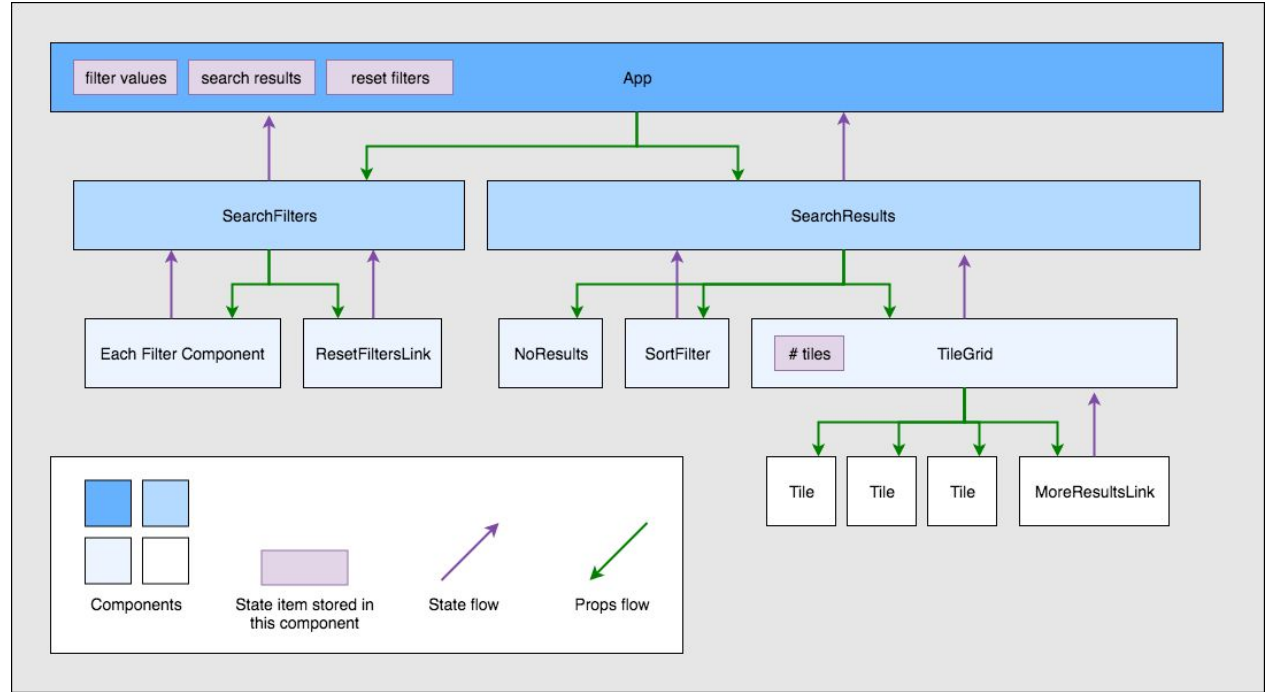
Terminology

Component architecture



App dataflow

- State is “lifted up”
- All state for search parameters stored in App
- Data passed to child components via props
- Other components may have local state for UI purposes only



REACT SOLR CONNECTOR COMPONENT

- Top level component
- A React component which provides access to a Solr server.
- The component uses the Solr JSON API
- Pass Solr connector component search parameters as props, the component updates and pings Solr



Back
To
Demo



Challenges Considerations, and Tips

CHALLENGES AND TIPS

- Accessibility
- Local development & workflow
- Autocomplete
- Adding JS
- Analytics
- Hosting



Going Forward

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Thanks!