

Primo VE customization with JavaScript bundles

CARLI presentation, 2022-07-19

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Introduction

So this is about getting a particular feature to work:

Auto-collapse “Get it from other institutions” in Primo VE full records.

- [link to record](#)

Spoiler alert: the actual customization is simple, just a snippet of JavaScript.

The catch: it needs to integrate with Ex Libris’ code, so this method does require some technical confidence.

BOOK
The hobbit, or, There and back again
Tolkien, J. R. R. (John Ronald Reuel), 1892-1973, author.; Originally published in 1937 by George Allen & Unwin Ltd.; "The text of this edition... contains all corrections and revisions that have been made since the original publication"--Title page verso. 1996

Available at Richard J Daley Library Daley Library - Book Stacks (PR6039.O32 H6 1997) > [Map It](#)

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Kishwaukee College (KIS) —Malta, IL
[Owned by institution](#)

University of Illinois at Urbana-Champaign (UIU) —Champaign and Urbana, IL
[Owned by institution](#)

Heartland Community College (HRT)
[Owned by institution](#)

Introduction

Caveat emptor: feels a bit like a hack;
the technique is not well documented.

However:

- Hard to find documentation
- It does conform to the Primo VE API
- I don't anticipate it breaking, short of Ex Libris reconsidering their API. Presumably they would let us know.
- I don't know how else to do it! :)

The screenshot shows a web browser window displaying a Primo VE library catalog page. The URL is <https://i-share-uc.primo.exlibrisgroup.com/discovery/fulldisplay?docid=alma991451>. The page title is "The hobbit, or, There and back again" by Tolkien, J. R. R. (John Ronald Reuel), 1892-1973, author. The page includes a book cover, a description, and various options for accessing the book. A red box highlights the "GET IT FROM I-SHARE" button. The page also shows a "Request Local Copy / I-Share" option and a "LOCATION ITEMS" section for the Richard J Daley Library.

BOOK
The hobbit, or, There and back again
Tolkien, J. R. R. (John Ronald Reuel), 1892-1973, author.; Originally published in 1937 by George Allen & Unwin Ltd.; "The text of this edition... contains all corrections and revisions that have been made since the original publication"--Title page verso. 1996

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Book reviews (2) >

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[Available](#), Daley Library - Book Stacks PR6039.O32 H6 1997
(1 copy, 1 available, 0 requests)

Item in place
16 Week Loan

GET IT FROM I-SHARE >

Details
Title [The hobbit, or, There and back again](#)
Creator [Tolkien, J. R. R. \(John Ronald Reuel\), 1892-1973, author.](#) >
Subject [Fantasy](#) >
[Terre du Milieu \(Lieu imaginaire\)](#) >
[Middle Earth \(Imaginary place\)](#) >
[Fiction](#) >
[Fantasy fiction](#) >
[Epic fiction](#) >
[Romans épiques](#) >

UIC Primo VE

UIC Library Search: library.uic.edu/search

UIC custom code available here:

- bitbucket.org/uiclibrary/primo-ve/src/master
 - [/primo-explore/custom/01CARLI_UIC-CARLI_UIC/js/custom-api_keys_removed.js](https://bitbucket.org/uiclibrary/primo-ve/src/master/primo-explore/custom/01CARLI_UIC-CARLI_UIC/js/custom-api_keys_removed.js)
- Some additional documentation [in the ReadMe](#) for specific commands
 - please let me know if I can make this better!

...originally forked from Ex Libris' Primo VE repository:

- github.com/ExLibrisGroup/primo-explore-devenv



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Customized Primo VE build

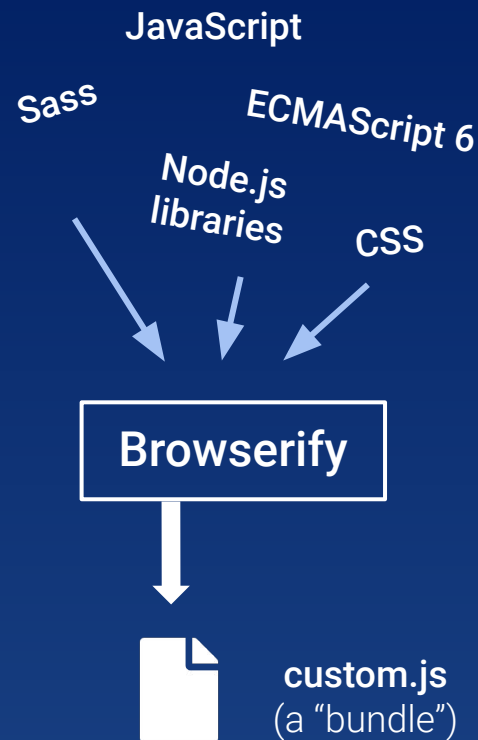
Gulp is a task manager. Here it runs **Browserify**, to compile JavaScript.

Browserify can build lots of stuff into a “bundle” of JS code. Here including:

- **Angular** (used here by Ex Libris)
- **Sass**
- **custom JS**, *integrated with Angular*

- ...theoretically any other **Node.js** library, you name it

← lots of potential



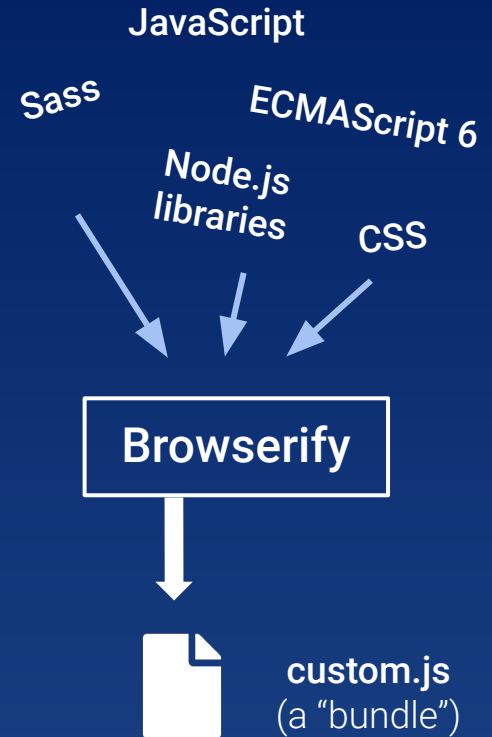
Browserify

browserify.org

- to compile modern JavaScript, into a form suited to browsers
- enables advanced front-end development
- Primo VE support not documented anywhere (that I can find)

However, Browserify support is [built into the Primo API](#)

Maybe we should ask Ex Libris to better document these features?



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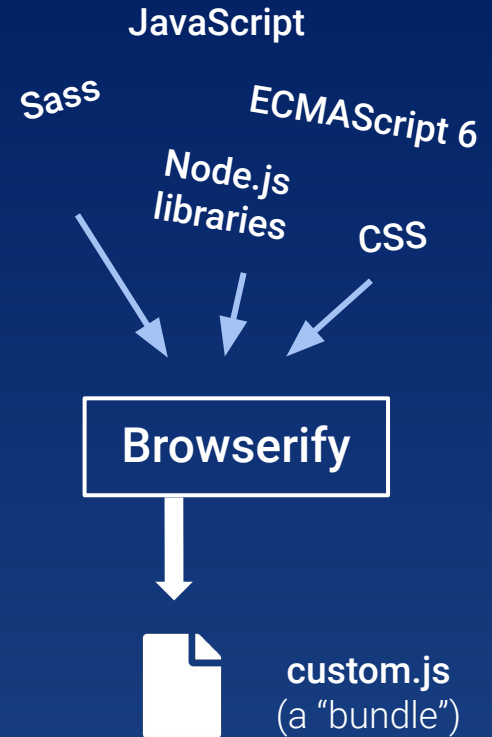
Sass

sass-lang.com

*btw: look for “SCSS” instructions.
(Not “SASS”, which is an obsolete version.)*

- not required for the feature in question
- really helps with advanced interface development
- Primo VE support not documented anywhere (that I can find)

However, like Browserify,
Sass support is [built into the Primo API](#)



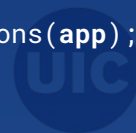
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finally: the dropdown script

[/primo-explore/custom/
01CARLI_UIC-CARLI_UIC/js/custom.js](/primo-explore/custom/01CARLI_UIC-CARLI_UIC/js/custom.js)

That's it. That's the whole thing.

```
(function () {
  var app = angular.module("viewCustom", ["angularLoad"]);
  //...
  /**
   * Collapse "get it from other institutions" dropdown in full record
   * @param {object} app - an Angular app
   */
  function collapseGetItFromOtherInstitutions(app) {
    app.component("prmAlmaOtherMembersAfter", {
      bindings: {
        parentCtrl: "<",
      },
      controller: [
        function () {
          var ctrl = this;
          ctrl.parentCtrl.isCollapsed = true;
          console.log(this)
        },
      ],
    });
  }
  removeTargetAttrs();
  collapseGetItFromOtherInstitutions(app);
  //...
})();
```



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Using the UIC code: **creating packages**

/package.json

(note: this is totally different from the term "Customization Packages" used by Primo VE, e.g. below)

```
...
"main": "gulpfile.js",
"scripts": {
  "dev": "gulp run --view 01CARLI_UIC-CARLI_UIC --ve --useScss",
  "dev_test": "gulp run --view 01CARLI_UIC-CARLI_UIC_TEST --ve --useScss",
  "pack": "gulp create-package --view 01CARLI_UIC-CARLI_UIC --ve --useScss &&
          gulp create-package --view 01CARLI_UIC-CARLI_UIC_TEST --ve --useScss"
},
...
```

These allow you to run **yarn**, a package manager for Node.js:

\$ yarn run dev

starts a local development environment (using real data!)

\$ yarn run pack

produces a Customization Package, for upload into Primo VE



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Alma: Discovery Configuration

Now we need to put the customization package into Primo

The screenshot shows the Alma configuration interface for the University of Illinois at Chicago. The browser address bar displays `https://i-share-uic.alma.exlibrisgroup.com/ng`. The page title is "Configuring: University of Illinois at Chicago". The left sidebar contains a navigation menu with the following items: Alma, Acquisitions, Resources, Discovery (highlighted), Fulfillment, User Management, General, and Analytics. The main content area is divided into several sections:

- Search Configuration**
 - Search Profiles
 - Restricted Search Groups
 - Ranking Configuration
- Display Configuration** (highlighted with an orange box and a yellow arrow)
 - Configure Views
 - Manage display and local fields
 - Local Resource Types
 - Manage Tags
 - Hypertext Linking Definitions
 - Thumbnail configuration
 - Labels
- GetIt Configuration**
 - ★ Digitization Request
 - Hold and Booking Request
 - Purchase Request
 - Resource Sharing Request
 - Items Display configuration
 - Holdings Display Labels
 - Holdings Display Configuration
 - Holdings Search Configuration
 - Primo View to Libraries
- Library Card Configurations**
 - Loans Detailed Display
 - Loans Brief Display
 - Payment Link Configuration
 - Personal Details Configuration
- Authentication**
 - User Authentication
 - Restricted User Groups (Central Index / Ebsco)
- Loading External Data Sources**
 - Normalization rules for External Data sources
 - Test Normalization Rules
 - Normalization Process Task
 - Discovery Import Profiles
 - Dublin Core type to Discovery Type mapping
- Publishing**
 - Publishing Profiles
- Other**
 - Resource Recommender Configuration
 - Central Index and proxy set-up
 - Primo Deep-Link Re-Direct Configuration
 - Suppress Dedup/FRBR
 - Dedup and FRBR Test Utility
 - Customer Settings
 - Citations Styles
 - Local Fields using Search and Facet Normalization Rules
 - Primo VE Deep Search Configuration
 - Exclude Process Types from Discovery Indexing
 - Custom linking for Central Index databases
 - Dedup/FRBR Complete Key Combination
 - DEI - List of terms to exclude from Subject Heading
 - Export Mapping for the RIS, EasyBib, and EndNote Actions
 - Report a problem widget configuration

At the bottom of the page, there is a search bar with the text "Ctrl+Alt+F to search any menu links" and a small "Back" button with a gear icon.

Alma: Discovery Configuration

There it is.

The screenshot shows the Alma View Configuration page for the University of Illinois at Chicago. The page is titled "View Configuration" and shows the configuration for a package named "01CARLL_UIC:CARLL_UIC_TEST". The page is divided into several sections:

- Navigation:** A sidebar on the left contains icons for Alma, Acquisitions, Resources, Discovery, Fulfillment, User Management, General, and Analytics. A "Back" button is at the bottom left.
- Configuration Tabs:** A horizontal menu at the top right includes tabs for "General", "Links Menu", "Search Profile Slots", "Advanced Search Configuration", "Brief Results", "Brief Record Display", "Full Record Services", and "Manage Customization Package". An orange arrow points to the "Manage Customization Package" tab.
- Actions:** A "Save" button is located in the top right corner.
- Customization Package Section:**
 - Create Customization Package:** Includes a "Go to Primo Studio" link.
 - Download Package:** Contains three "Download" buttons for "Template View Customization Package", "Current View Customization Package", and "Download Central Customization Package".
 - Upload Package:** Features a file selection input, an "Upload" button, and an orange arrow pointing to this section.
 - Upload Logo:** Includes an "Upload Logo File" input, an "Upload" button, a "Remove Logo" button, and a "Logo Clickable URL" field with the value "https://library.uic.edu/".
 - Upload Templates:** Includes an "Upload Email Template" input, an "Upload" button, and a checked "Use Classic Email Template" checkbox.
 - Inheritance:** Includes an "Inherit from Central Package" checkbox which is currently unchecked.

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Thanks!

Please feel free to email me with any questions.

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