UP AND RUNNING WITH BENTO:

IMPLEMENTING BENTO SEARCH, DISCOVERY SERVICE AND HOMEPAGE UPDATE IN A SEMESTER

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HTTP://LIBRARY.UNCW.EDU

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- Background
- Process
- Why a bento search?
- Technical solutions
- Impacts & future considerations

QUESTION

What would you like to get out of this presentation?

BACKGROUND

US

- Medium-sized academic library
- 13,914 Undergraduates, 1,826 Graduates
- 52 staff, 8 Library IT staff
- Systems:
  - ILS = Sierra
  - Discovery Service = Summon (was WCL)
  - Link Resolver = 360 Link (was III WAM)
  - CMS = Drupal

YOU

- *Do you have a bento box search already?*
- *What systems (ILS, Discovery, etc.) do you use?*

PROCESS

TIMELINE

- 2013 Began implementation of first discovery service: WorldCat Local
- August 2014 Fully launched WCL
- September 2014 Began review of discovery services
- November 2014 Concluded review & recommended to migrate to Summon
- December 2014 Began Summon implementation
- January 2015 Began Bento implementation
- April 2015 Beta versions released
- May 2015 went live with Bento search, 360 Link and Summon

KEYS TO SPEEDY IMPLEMENTATION

- Project Manager
- Target dates
- Project tracking
- Larger advisory group & much smaller working groups
- Communication (heads up)
- Agreeing to iterative solutions
- Learn from and build on existing solutions

DIVIDE AND CONQUER

- Coordinator of Discovery Services
- Task Force for Summon Implementation
  - Representatives from IT, Technical Services, Public Services
- Sub-groups
  - Summon Interface
  - 360 Link set-up
  - 360 Link interface
  - Catalog integration
  - Bento Search
  - Marketing/Outreach

PROJECT TRACKING

Summon Interface	360 Link Set-up	360 Link Interface	Catalog	Search box & bento	Help/Marketing
Due Date: 4/2/2015	**Due between 4/2-5/11**	**Due between 4/2-5/11**	**Export Due 5/18/2015**	**Due Date: 4/2/2015**	**Due Date: 5/11/2015**
Members: LKW, PF, AP, MER	Members: LKW, JF, LS, GM, DP	Members: LKW, MER, PF, JF, DP	Members: LKW, GM, SB, JF, LS	Members: LKW, PF, AP, GM, SB, JF	Members: LKW, PF, AP, MER
Interface configuration Best bests Database Recommenders Phrase translations Facets Default settings Summon	Setting holdings (journals, ebooks) Link resolver config Migrate from webbridge (due July) Add print? Review checklist	Link resolver interface Testing Example	Integration with Summon (metadata mapping, exporting) Setting up daily exports (Due 3/1/2015) Interface improvements (Due July)	Homepage search box Bento results page (categories, display) Live page	Help page(s) Tutorial(s) (Summon and Get it from UNCW?) Marketing (Proquest will do a staff webinar) Usability
Status or next steps: Done, except I need to add in Best Bets: Will add in dbs that are not in database recommender set. Note from meeting: Find a way to make it not so confusing to users about the database recommendations and best bet categories.	**Status or next steps:** Update from LS. Need to test and review linking. (Gale) If testing goes well, make plan to migrate from webbridge for external linking. Add print before fall.	**Status or next steps:** Done, except for to review interface for "no results found" page. Usability testing.	**Status or next steps:** Records sent 3/9. After import need to look at Location codes and MARC mapping. Figure out update and delete process.	**Status or next steps:** Working on content of boxes. Need to adjust layout and design. Need to develop search box.	**Status or next steps:** Will convene in late March/early April.

WHY A BENTO SEARCH?

Oscar Mayer
Lunchables
LUNCH COMBINATIONS
Deluxe
Turkey & Ham

Scholarly Articles

Marine Biology
by Thomas, Robert
Harvard Review, 2014, Issue 46, p. 156

Marine biology: Bacterial boost
by Wake, Bronwyn
Nature Climate Change, Jul 1, 2015, Volume 5, Issue 7, p. 621

Ocean biology: Marine dreams
by Woolston, Chris
Nature, Dec 11, 2014, Volume 516, Issue 7530, p. 277

Teaching "Tropical Marine Biology"
by Landau, M
INTEGRATIVE AND COMPARATIVE BIOLOGY, Apr 2015, Volume 55, p. E104

Marine biology: Charting sea life
by Woolston, Chris
Nature, Dec 10, 2015, Volume 528, Issue 7581, p. 295

See all 527,789 full text online results
More search options
See all 660,422 results, full text online and citation only

News & Magazine Articles

Marine biology Whale fall
by Haag, Amanda
Nature, Feb 10, 2005, Volume 433, Issue 7026, p. 566

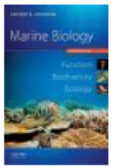
Marine biology - Florida red tide brews up drug lead for cystic fibrosis
by Potera, C
SCIENCE, Jun 15, 2007, Volume 316, Issue 5831, p. 1561

Books & eBooks

Advances in Marine Biology. Volume seventy-four

no image available

Marine biology
Castro, Peter
General Collection
QH91 .C37 2010
LOST INVENTORY



Marine biology : function, biodiversity, ecology
Levinton, Jeffrey S
General Collection
QH91 .L427 2009
LOST INVENTORY

no image available

Web snapshots, 2006- Dept. of Biology and Marine Biology.
University of North Carolina at Wilmington. Dept. of Biology and Marine Biology.
University Archives - Books and Serials
LD3962.9.U5 B565
LIB USE ONLY

Introduction to marine biology
Karleskint, George
General Collection
QH91 .G37 2006
AVAILABLE

See all 1,231 results
More search options

Videos & Music

Journals, Magazines, & Newspapers by Title

Marine Biology

Marine Biology New York

Marine Biology Research

See all 3 results
More search options

Library Websites & Digital Collections

Biology & Marine Biology | UNCW Randall
Department & Unit Liaison: Biology & **Marine Biology** · Chemistry and Biochemistry · Computer Science · Environmental Studies · Geography and Geology.
library.uncw.edu/category/unit_liasion/biology_marine_biology

Peter Fritzler | UNCW Randall
Dec 16, 2015 **...** Biology & **Marine Biology**. Chemistry and Biochemistry. Computer Science. Environmental Studies. Geography and Geology. Marine Sciences.
library.uncw.edu/staff/peter_fritzler

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establishing the European **Marine Biology** Society. The idea was for marine scientists from both the. Soviet bloc and the U. S.-led bloc to meet annually, with the ...
randall3.uncw.edu/ascod/?p=digitallibrary/getfile&id=245

Interview with James F. Merritt, November
Nov 9, 2006 **...** The biology department had a BS in **marine biology**. That was part of the thing that was started as this marine science program was started

WHY BENTO?

For users

- Helps guide & educate users to type of library materials needed
- Good segue into advanced searching
- One search box experience, without overwhelming results
- No facets (at first)

For Library

- Lack of confidence in discovery, especially for library holdings
- Local catalog data and relevancy retained
- Control over search results
- Summon API robust
- Shortcut to discovery implementation

WHY NOT BENTO?

- Slow, especially when doing multiple searches
- Not ideal for power users
- “More results” pushes users to different interfaces
- Loss of features such as spell correction, thesaurus, “did you mean”
- Lots of information on the screen
- Hidden collections
- Confusion over where data is coming from

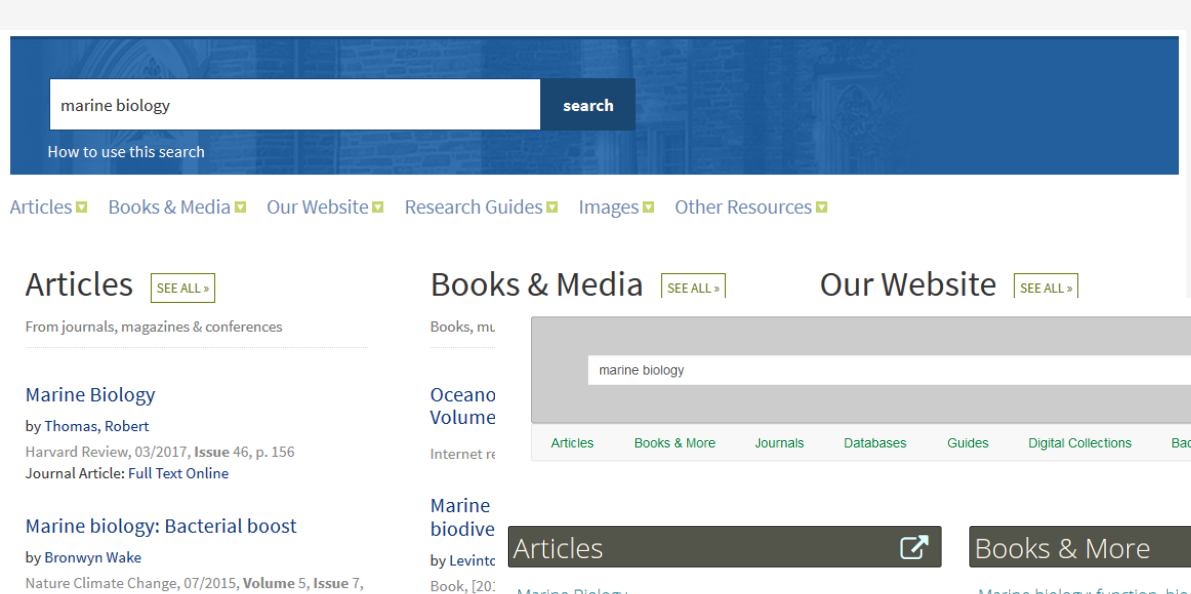
BUILDING YOUR BENTO

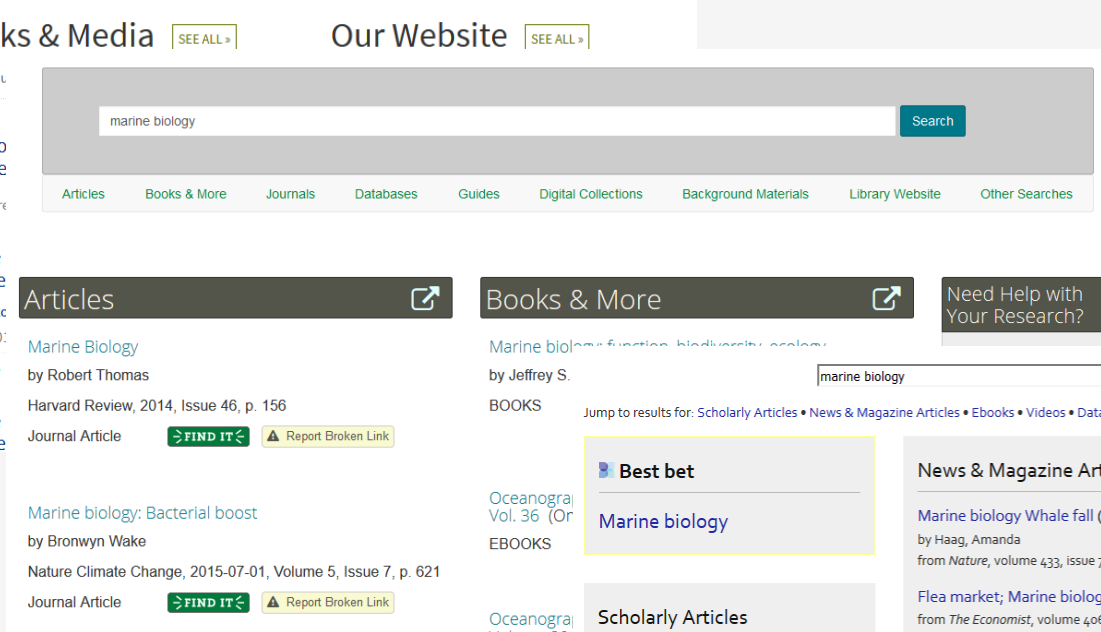
BUILDING YOUR LUNCH

BUILDING YOUR LUNCH

- How many boxes?
- What to put in each box?
- How to organize boxes?
- How many results to display in each box?
- What source of data to use?
- Does your source data let you accomplish what you want?
- How do you get the data from your source?
- How to design the boxes?

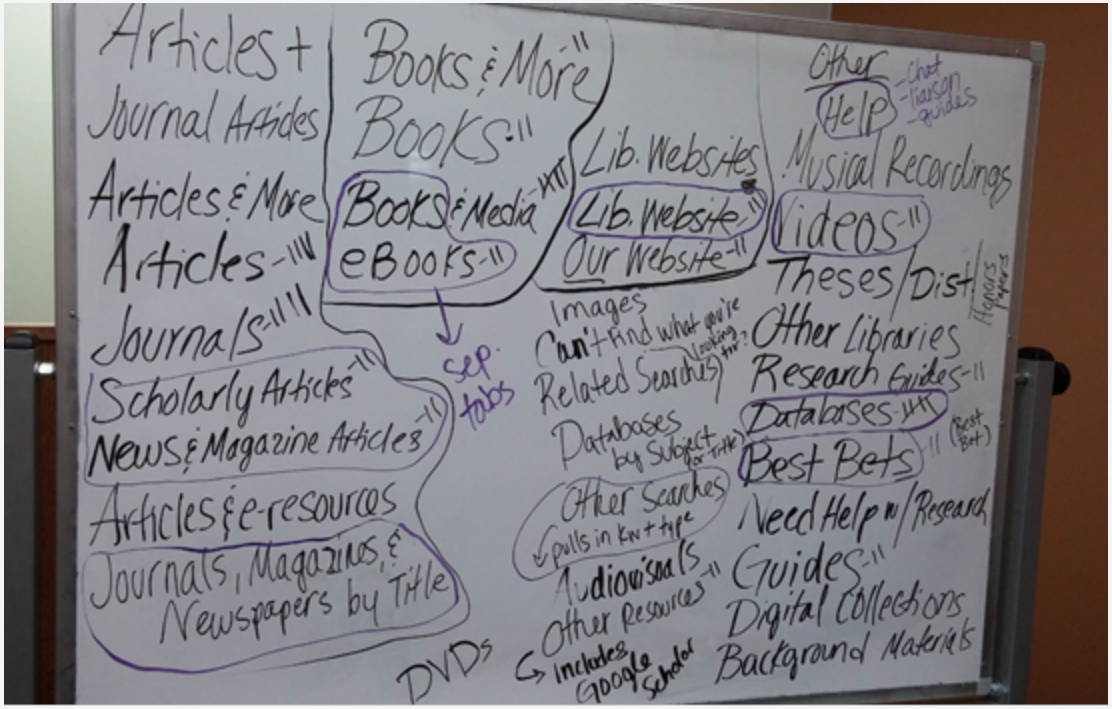
BUILD ON OTHERS





OUR LUNCH CHOICE

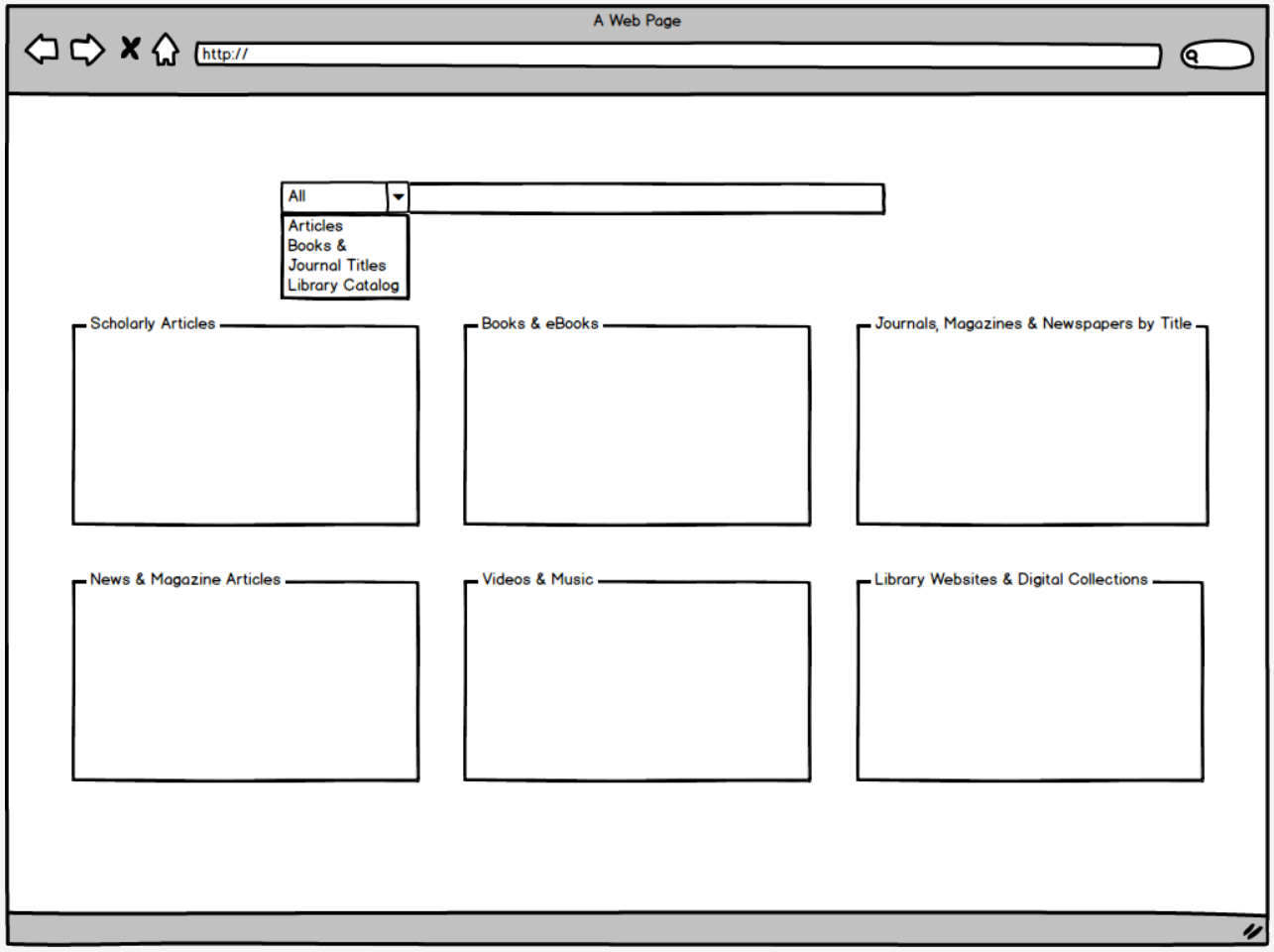
- Scholarly Articles
- News & Magazine Articles
- Databases
- Books & eBooks
- Videos & Music
- Journals, Magazines, & Newspapers by Title
- Library Websites & Digital Collections
- Government Documents
- More Library Collections



YOUR LUNCH CHOICES

What categories would you add or remove?

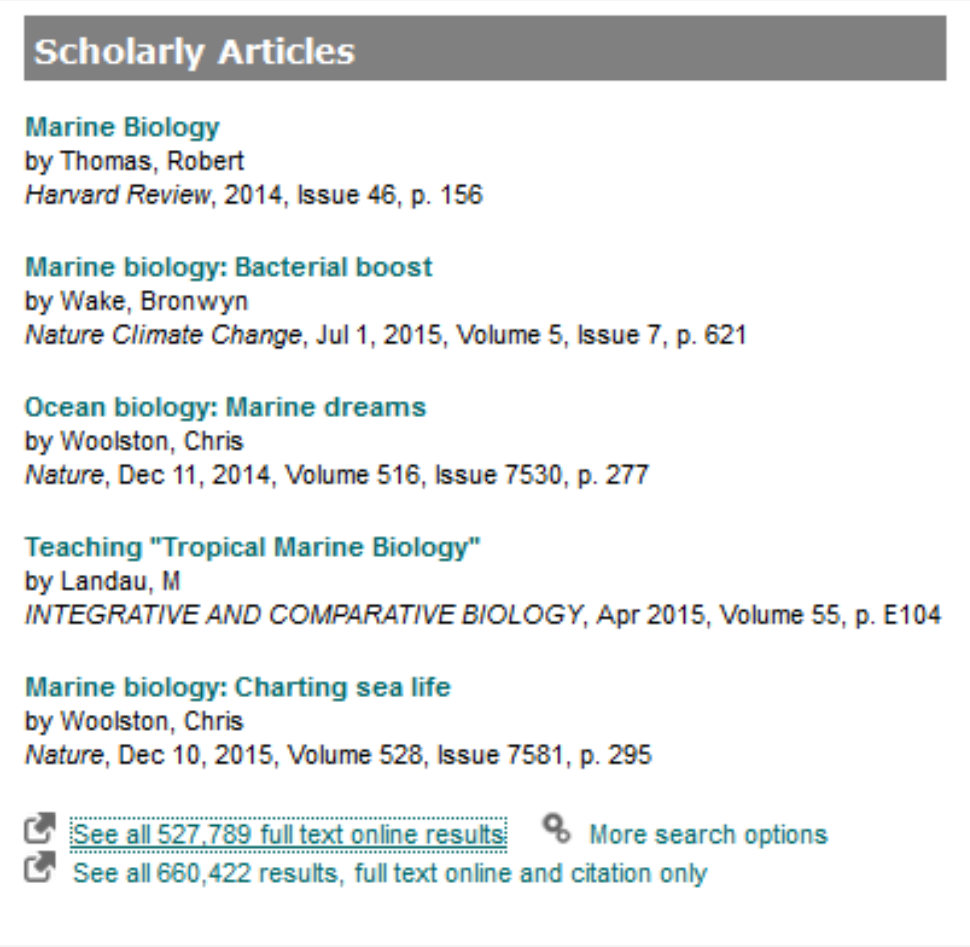
ORGANIZING YOUR LUNCH



Wireframing

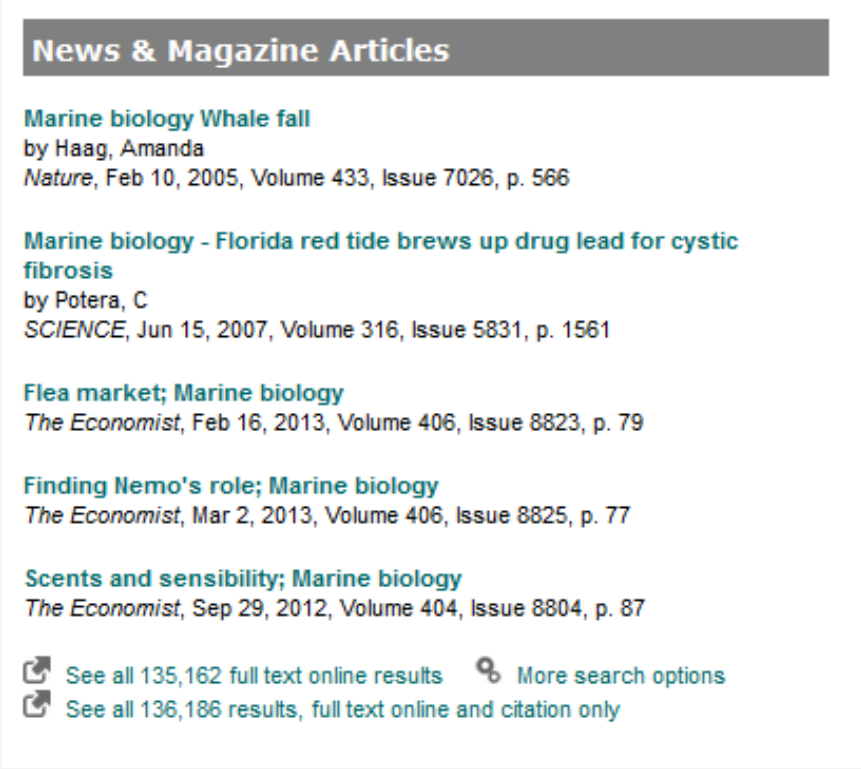
SCHOLARLY ARTICLES

- Source: Summon
- Technique: Summon API
- Scope: Full-text Online, Scholarly & Peer-Review, Journal Articles



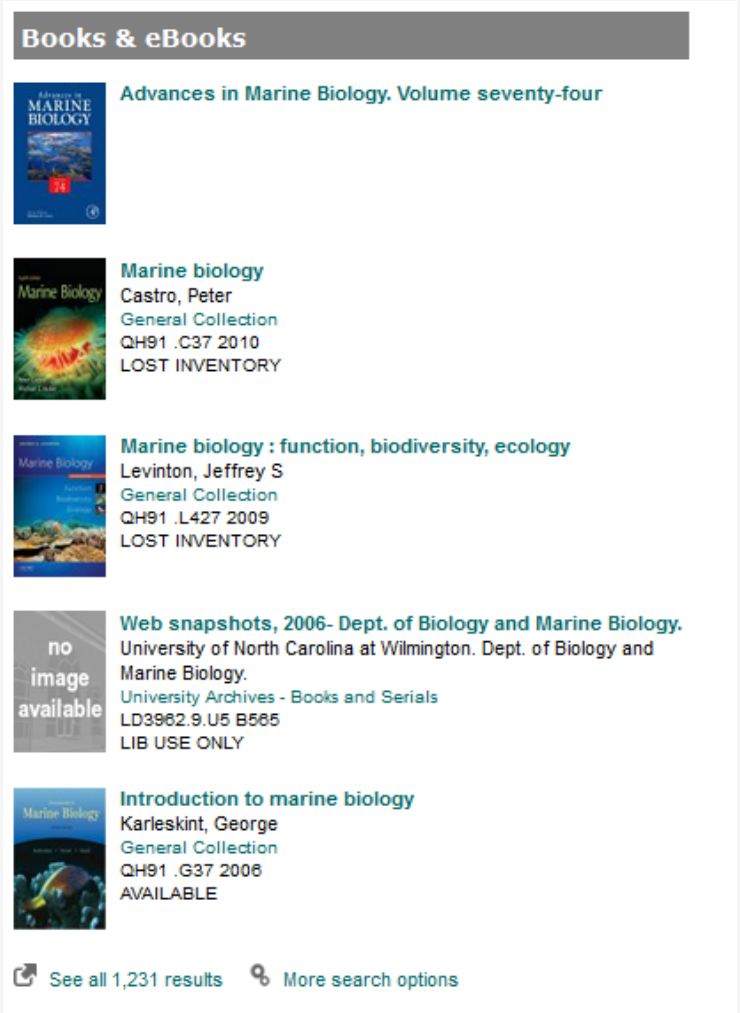
NEWS & MAGAZINE ARTICLES

- Source: Summon
- Technique: Summon API
- Scope: Full text online, Newspaper Article, Magazine Articles



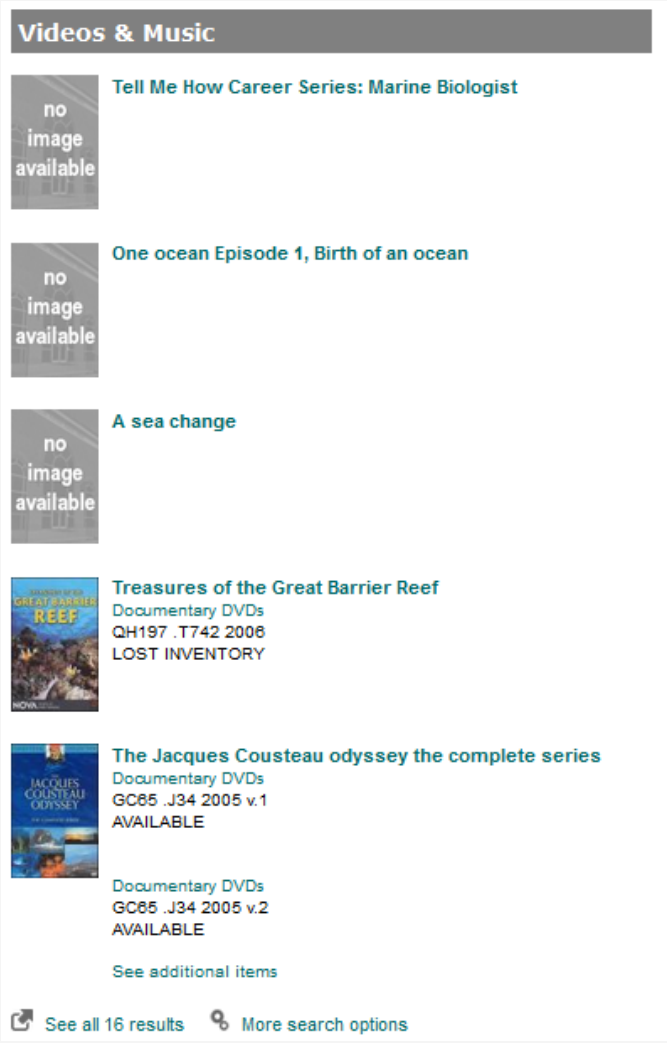
BOOKS & EBOOKS

- Source: Library Catalog (Sierra)
- Technique: screen scraping
- Scope: Limited to specific material types and specific locations
- Book covers: Syndetics



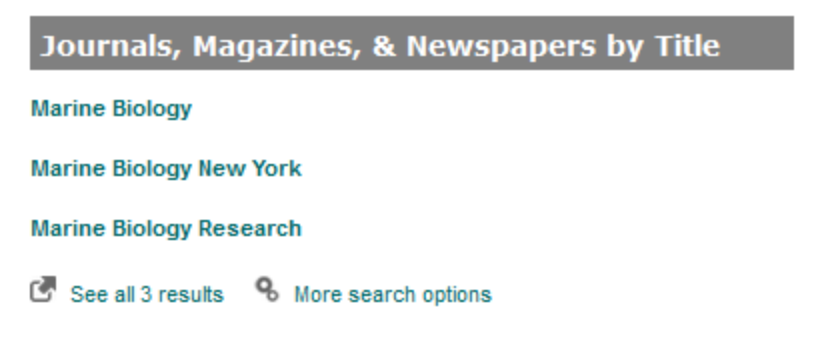
VIDEOS & MUSIC

- Source: Library Catalog (Sierra)
- Technique: screen scraping
- Scope: Limited to specific material types and specific locations
- Item covers: Syndetics



JOURNALS, MAGAZINES, & NEWSPAPERS BY TITLE

- Source: Library Catalog (Sierra)
- Technique: screen scraping
- Scope: Browse search, 222 (our current Journal Title search)



GOVERNMENT DOCUMENTS

- Source: Library Catalog (Sierra)
- Technique: screen scraping
- Scope: Limited to specific material types and specific locations

LIBRARY WEBSITES & DIGITAL COLLECTIONS

- Source: Library websites and digital collections
- Technique: Google Custom Search
- Scope: Library domains

Library Websites & Digital Collections

Biology & **Marine Biology** | UNCW Randall Library
Department & Unit Liaison: Biology & **Marine Biology** · Chemistry and Biochemistry · Computer Science · Environmental Studies · Geography and Geology.
library.uncw.edu/category/unit_liasion/biology_marine_biology

Peter Fritzler | UNCW Randall Library
Dec 16, 2015 **...** Biology & **Marine Biology**. Chemistry and Biochemistry. Computer Science. Environmental Studies. Geography and Geology. Marine Sciences.
library.uncw.edu/staff/peter_fritzler

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establishing the European **Marine Biology** Society. The idea was for marine scientists from both the. Soviet bloc and the U. S.-led bloc to meet annually, with the ...
randall3.uncw.edu/ascod/?p=digitallibrary/getfile&id=245

Interview with James F. Merritt, November 9, 2006 | UNCW Archives ...
Nov 9, 2006 **...** The biology department had a BS in **marine biology**. That was part of the thing that was started as this marine science program was started.
randall3.uncw.edu/ascod/?p=digitallibrary/digitalcontent&id=86

UNCW - Randall Library - Archives
Jan 15, 2009 **...** Arbogast, Brian Scott (UNCW, CAS, Department of Biology and **Marine Biology**) Argenbright, Robert (UNCW, CAS, Department of Geography ...
https://library.uncw.edu/web/collections/archives/scholarship.html

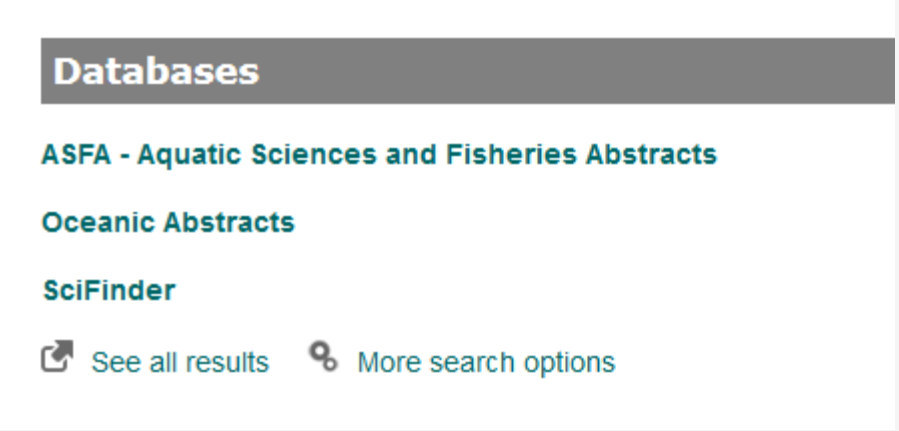
1 2 3 4 5 6 7 8 9 10

powered by Google Custom Search

More search options

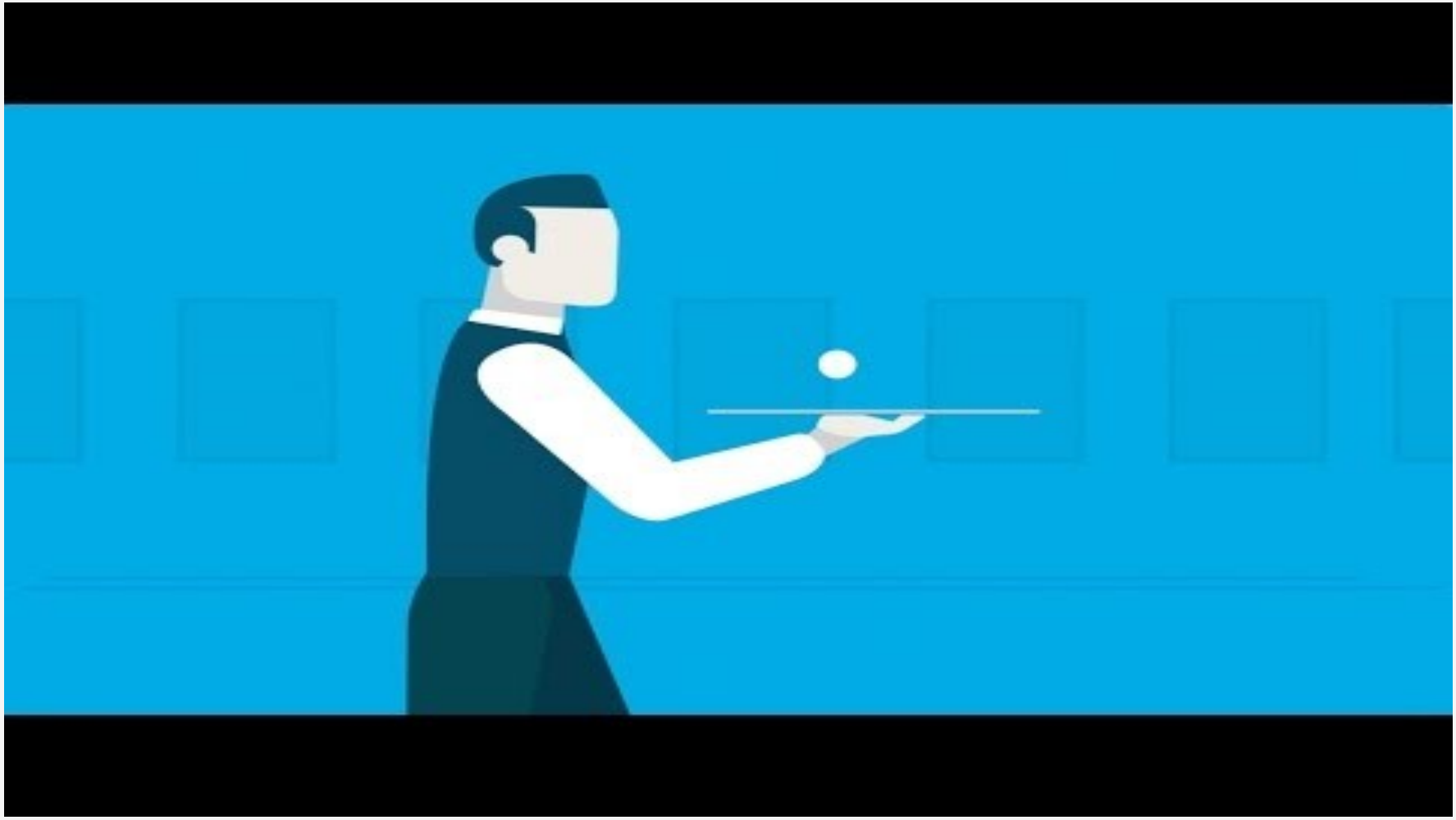
DATABASES

- Source: Drupal search
- Technique: Screen scraping
- Scope: Limited by database content type



TECHNICAL SOLUTIONS

API



https://youtu.be/s7wmiS2mSXY

USING THE SUMMON API

```
function bento_scholarly_articles() {

  if (empty($_POST['searchTerms'])) {
    module_invoke_all('exit');
    exit;
  }

  $search_terms = $_POST['searchTerms'];

  // Add filters to the Summon database query.
  $query = $search_terms . "&s.fvf=IsFullText,true,f&s.fvf=ContentType,Journal+Article,f&s.fvf=IsScholarly,true,f&s.role=authenticated";

  // Query the Summon database and parse the results.
  $offset = NULL;
  $limit = NULL;
  $sort = FALSE;
  $doctype = 'xml';
  $api_id = getCredentials('SUMMON__api_id');
  $api_key = getCredentials('SUMMON__api_key');
  $xml_summon_data = summon_tools__request($api_id, $api_key, $query, $offset, $limit, $sort, $doctype);
  $parsed_summon_data = summon_tools__parse_xml("summon_articles", $xml_summon_data, $exact);

  // Return the results.
  $results = $parsed_summon_data["summon_articles"]["results"];
  $results_count = $parsed_summon_data["count"];
  $results_returned = array();
  $results_returned["results"] = $results;
  $results_returned["resultsCount"] = $results_count;
  drupal_json_output($results_returned);
  module_invoke_all('exit');
  exit;
}
```

USING THE SUMMON API

```php
function summon_tools__request($api_id, $api_key, $query, $offset = 0, $limit = 10, $sort = False, $doctype = "xml") {
  /* Returns response in $doctype format (xml|json) from Summon 2.0 API for a $query.

    - Results start at $offset for a total of $limit results.
    - Results are sorted by relevance ($sort = False) or date-descending ($sort = True).
    - Code based on Python code here: https://gist.github.com/lawlesst/1070641
    - See also: http://blog.humaneguitarist.org/2014/09/04/getting-started-with-the-summon-api-and-python/
    - See also: http://blog.humaneguitarist.org/2014/11/16/using-the-summon-api-with-a-simple-php-script/
   */

  // set API host and path.
  $host = "api.summon.serialssolutions.com";
  $path = "/2.0.0/search";

  // create query string.
  $query = "s.q=" . $query . "&s.pn=$offset&s.ps=$limit&s.ho=true";

  // set sort to date-descending if needed.
  if ($sort != False) {
    $query = $query . "&s.sort=PublicationDate:desc";
  }

  // sort and encode $query.
  $query_sorted = explode("&", $query);
  asort($query_sorted);
  $query_sorted = implode("&", $query_sorted);
  $query_encoded = urldecode($query_sorted);

  // create request headers.
  $accept = "application/$doctype";
  $date = gmstrftime("%a, %d %b %Y %H:%M:%S GMT", time());
  $id_string = implode("\n", array($accept, $date, $host, $path, $query_encoded, ""));
  $digest = base64_encode(hash_hmac("sha1", utf8_encode($id_string), $api_key, True));
  $authorization = "Summon " . $api_id . ";" . $digest;
  $headers = array("Host:$host", "Accept:$accept", "x-summon-date:$date", "Authorization:$authorization");

  // call API; return response.
  $url = "http://$host$path?$query";
  $response = url_tools__request($url, $timeout = 10, $headers = $headers);
  return $response;
}
```

DISPLAYING THE RESULTS

```
success: function(response) {
  var display = '';
  var results = response.results;
  var limit = results.length;
  if (limit > 5) {
    limit = 5;
  }
  if (limit) {
    var i = 0;
    var result;
    do {
      result = results[i];
      display += '<div class="bento-result">';
      // Journal title.
      if (result.title && result.link) {
        display += '<a href="' + result.link + '" target="_blank"><b>' +
        result.title + '</b></a><br>';
      }
      else if (result.title) {
        display += '<b>'.result.title + '</b><br>';
      }
      // Author.
      if (result.author) {
        display += 'by ' + result.author + '<br>';
      }
      // Source.
      if (result.randall_source) {
        display += result.randall_source + '<br>';
      }
      display += '</div>';
      i++;
    } while (i < limit);
```

SCREEN SCRAPING

http://www.iharvest.co.uk/wp-content/uploads/2014/03/iHarvest_Screen_Scrape_Image_Of_Text.png

PHP SIMPLE HTML DOM PARSER

- An HTML DOM parser written in PHP5+ that lets you manipulate HTML
- It finds tags on an HTML page by using selectors, like jQuery. (the JavaScript library)
- It extracts contents from HTML and returns it in a variable that can then be displayed.

HOW SCREEN SCRAPING?

```
foreach ($records as $record) {
  if (++$j == ($results_count + 1)) {
    break;
  }
  $detail = array();
  $detail['record_additional_items'] = FALSE;
  $detail['record_url'] = $record->getElementsByTagName('a', 0)->href;
  $detail['record_title'] = $record->getElementsByTagName('a', 0)->plaintext;
  $detail['record_elements'] = $record->find('.bibItemsEntry td');
  $detail['record_elements_count'] = count($detail['record_elements']);
  if ($detail['record_elements_count'] > 0) {
    $data = $record->getElementsByTagName('td', 0)->plaintext;
    $detail['record_collection'] = _bento_clean_string($data);
    $data = $record->getElementsByTagName('td a', 0)->href;
    $detail['record_collection_url'] = _bento_clean_string($data);
    $data = $record->getElementsByTagName('td', 1)->plaintext;
    $detail['record_call_number'] = _bento_clean_string($data);
    $data = $record->getElementsByTagName('td a', 1)->href;
    $detail['record_call_number_url'] = _bento_clean_string($data);
    $data = $record->getElementsByTagName('td', 2)->plaintext;
    $detail['record_availability'] = _bento_clean_string($data);
  }
```

SCREEN SCRAPING

Library Catalog Display → Page Source → Bento Display

DIFFICULTIES OF SCREEN SCRAPING

- You are relying on the consistency of the display on another site
- Different scenarios have to be handled differently
- It can be really difficult to find a way to map to the data you desire

SCREEN SCRAPING ISSUES

- Multiple Results

```
<div class="briefcitDetailMain">

<!--{nohitmsg}-->
<h2 class="briefcitTitle">
<a
href="/search~S4?/Xgirl+on+a+train&SORT=DZ/Xgirl+on+a+train&SORT=DZ&extended=0
t&FF=Xgirl+on+a+train&SORT=DZ&7%2C7%2C">In a dark, dark wood</a></h2>
<br >
Ware, Ruth<br >
New York : Scout Press, 2015
    <!--{year}-->
```

- One Result

```
564 <!-- BEGIN BIBDETAIL TABLE BORDER -->
565 <table id='bib_detail' width="100%" border="0" cellspacing="1" cellpadding="2"  class="bibDetail">
566 <tr  class="bibInfoEntry" ><td>
567 <!-- BEGIN INNER BIB TABLE -->
568 <table width="100%" cellspacing="3" cellpadding="0">
569 <tr><!-- next row for fieldtag=t -->
570 <td valign="top" width="20%"  class="bibInfoLabel">Title</td>
571 <td class="bibInfoData">
572 <strong>In <span  style="color:RED" ><strong>a</strong></span> dark, dark wood / Ruth Ware</strong></td></tr>
573 </table>
574 <!-- END INNER BIB TABLE -->
575 </td></tr>
576 </table>
577 <!-- END BIBDETAIL TABLE -->
578 </h1>
```

NO RESULTS

Books & eBooks

No results found in the UNCW library catalog.
Additional results from other libraries:

How to build a girl : a novel
Moran, Caitlin, and Louise Brealey
2014. Internet resource

Request Item through Interlibrary Loan

Check New Hanover County Public Library or Cape Fear Community College.

How to Build a Girl.
How to Build a Girl
Print.

Request Item through Interlibrary Loan

Check New Hanover County Public Library or Cape Fear Community College.

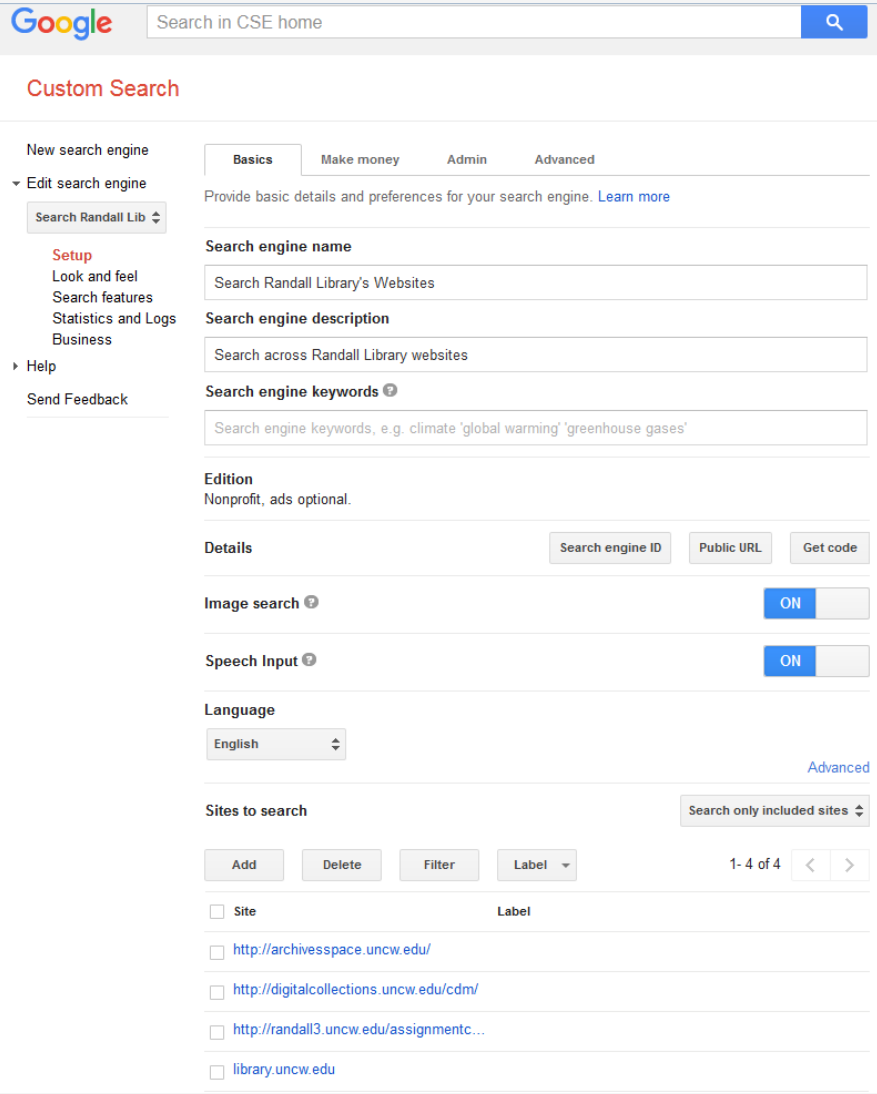
WORLDCAT API

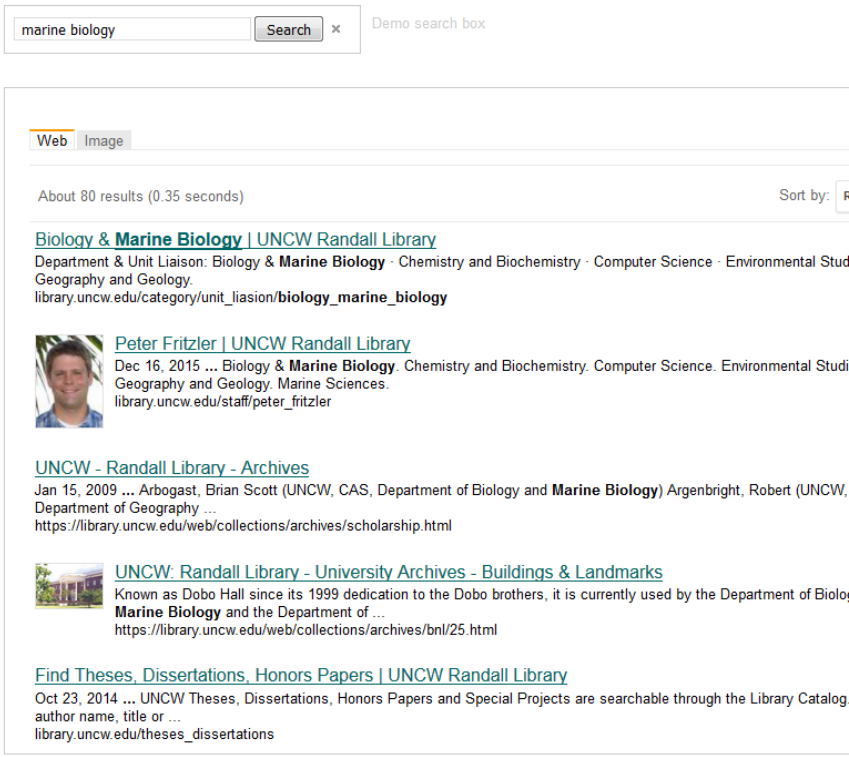
```
function _bento_oclc_search_api($search_terms, $category, $worldCatSearchType = 'equal') {

  $url_parameters = '';

  if ($category == 'books') {
    //$formats = array('print', 'sound+recording', 'internet+resource');
    $url_parameters = 'q=srw.dt+exact+%22bks%22+or+srw.dt+exact+%22url%22+and+srw.ti=%22';
  }
  elseif ($category == 'videos') {
    $url_parameters = 'q=srw.dt+exact+%22vis%22+or+srw.dt+exact+%22sco%22+or+srw.dt+exact+%22rec%22+and+srw.ti+all+%22';
  }
  elseif ($category == 'journals') {
    //$formats = array();
  }

  //key to the OCLC API
  $wskey = getCredentials('OCLC__wskey');
  $search_terms = urlencode($search_terms);
  $search_terms = str_replace('%22', '', $search_terms);
  $search_terms = str_replace('"', '', $search_terms);
  $display_part1 = '<b>No results found in the UNCW library catalog. <br /> Additional results from other libraries:
  </b><br/ ><br />';
  $display_part2 = '';

// Limit results to 2 matches.
  $oclc_matches = 0;

// Call the OCLC Search API with our search terms.
  $oclcurl = 'http://www.worldcat.org/webservices/catalog/search/worldcat/opensearch?' . $url_parameters . $search_terms
  . '%22&format=rss&wskey=' . $wskey . '&cformat=mla';

// Use the MagpieRSS parser to turn the reply from OCLC into an object.
  $rss = fetch_rss($oclcurl);

// Take a look at each record returned by OCLC.
  foreach ($rss->items as $item) {
    if ($oclc_matches >= 2) {
      break;
    }

    $holdings = FALSE;
    $isbn = '';
    $isbn1 = '';
    $oclc = '';
    $requested_format = FALSE;
```

GOOGLE CUSTOM SEARCH

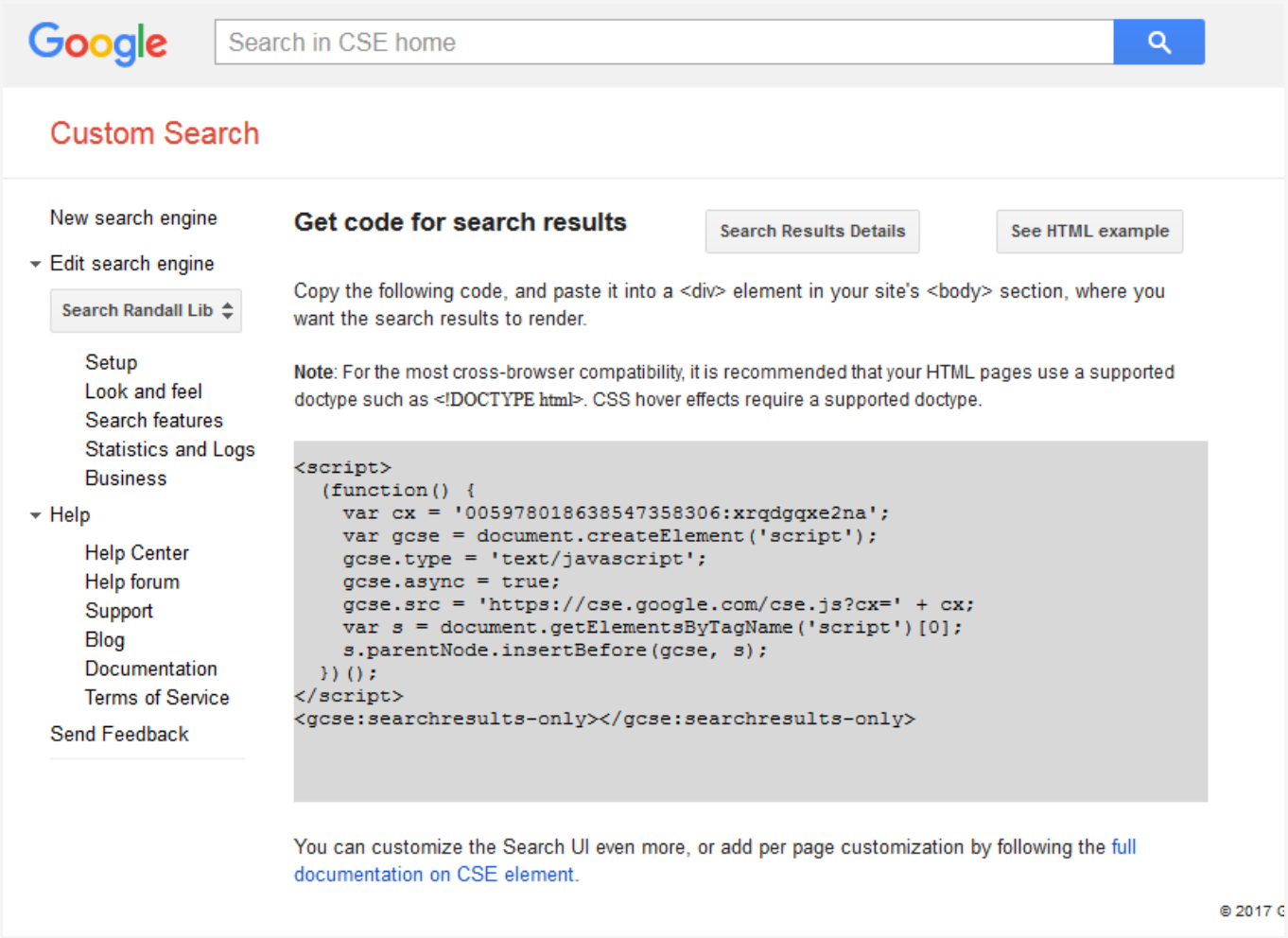
- Problem: How to search our many websites and digital collections in a unified fashion?
- Solution: Google Custom Search https://developers.google.com/custom-search/

GOOGLE CUSTOM SEARCH





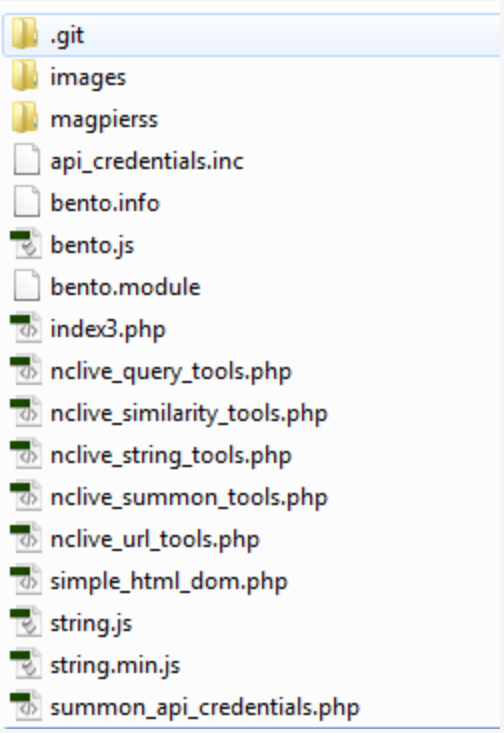
GOOGLE CUSTOM SEARCH



DRUPAL: MODULE

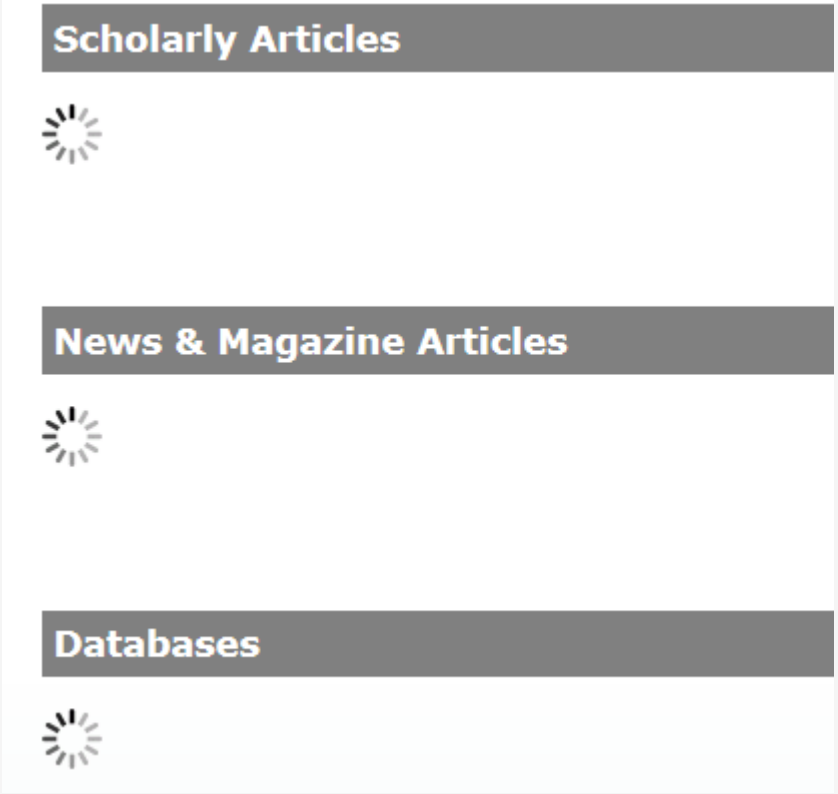
- Pulls all of the above together into Drupal
- Uses Drupal functions to run queries, store and display the data
- Two main elements bento.module and bento.js
- Other tools to parse the XML returned from the APIs
- Available on Github

**Thanks to NCLIVE for sharing their Drupal code & Summon API tools.*



DRUPAL: JS

- Takes search terms entered by user and queries all the data sources.
- Shows and hides the appropriate parts of the page. Parts are hidden until the application has obtained data to put in those containers.
- Some results can quickly begin to appear on the page.
- Sends data to bento.module to parse for display.



DRUPAL DISPLAY: FRAME

```
// COLUMN 2
//
  '<div class="bento-results-col bento-results-col2">

    <div id ="bento-results-books" class="bento-results">
      <div class="bento-results-header">
        <h5>Books & eBooks</h5>
      </div>
      <div class="bento-results-content bento-results-content-books bento-results-columns bento-dynamic">
        <img src="' . $system_pointer . '/sites/all/modules/bento/images/loading.gif"/>
      </div>
      <div class="bento-results-footer">
        <img class="bento-see-all"/>
        <a class="bento-see-all-link" href="#" target="_blank"></a>
        <img class="bento-more-options"/>
        <a class="bento-more-options-link" href="#" target="_blank"></a>
      </div>
    </div>

    <div id ="bento-results-videos" class="bento-results">
      <div class="bento-results-header">
        <h5>Videos & Music</h5>
      </div>
      <div class="bento-results-content bento-results-content-videos bento-results-columns bento-dynamic">
        <img src="' . $system_pointer . '/sites/all/modules/bento/images/loading.gif"/>
      </div>
      <div class="bento-results-footer">
        <img class="bento-see-all"/>
        <a class="bento-see-all-link" href="#" target="_blank"></a>
        <img class="bento-more-options"/>
        <a class="bento-more-options-link" href="#" target="_blank"></a>
      </div>
    </div>
  </div>' .
```

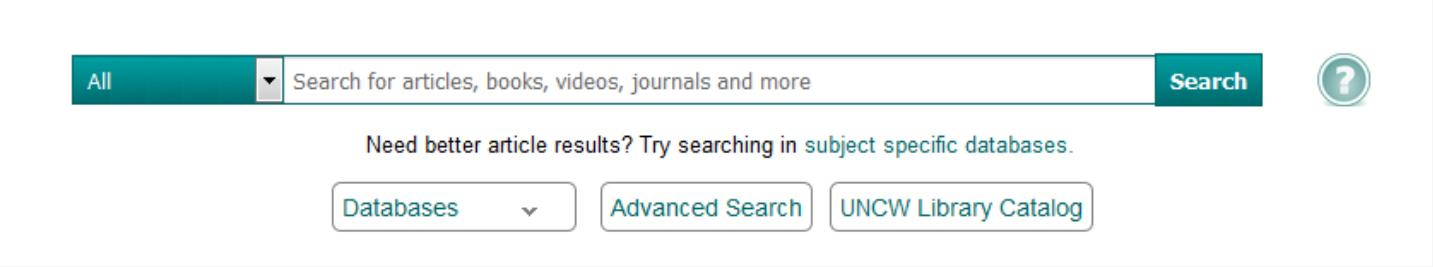
DRUPAL DISPLAY: INNARDS

```
// BOOKS

$('.bento-results-content-books').html(loading);
var booksUrl = systemPointer + '/bento_catalog_books';

$.ajax({
  type: 'POST',
  url: booksUrl,
  dataType: 'json',
  data: {'searchTerms': searchTerms},
  success: function(response) {
    var results = $.trim(response.reply);
    $('.bento-results-content-books').html(results);
    if (results === 'No results found') {
      var differentSearch = 'http://libcat.uncw.edu/search/X?SEARCH=(' + encodeURIComponent(searchTerms) + ')&searchscope=4';
      var worldcatSearch = 'http://www.worldcat.org/search?q=' + encodeURIComponent(searchTerms);
      var nhcplSearch = 'http://srvlibweb.nhcgov.com/?config=pac#section=search&term=' + encodeURIComponent(searchTerms);
      var cfccSearch = 'http://encore.cfcc.edu/iii/encore_cfcc/search?lang=eng&target=' + encodeURIComponent(searchTerms);
      var alternativeSearches = '. Try a different search in the <a href="' + differentSearch;
      alternativeSearches += '" target="_blank"> UNCW Library Catalog</a>.<br><br>';
      alternativeSearches += 'Or search <a href="' + worldcatSearch  + '" target="_blank">WorldCat.org</a>, ';
      alternativeSearches +=  '<a href="' + nhcplSearch  + '" target="_blank">New Hanover County Public Library</a>, ';
      alternativeSearches +=  'or <a href="' + cfccSearch  + '" target="_blank">Cape Fear Community College</a>.<br><br>';
      alternativeSearches += 'Can\'t find what you need? <a href="/ask" target="_blank">Ask Us!</a>';
      $('.bento-results-content-books').append(alternativeSearches);
    }
    else {
      var viewAll = 'http://libcat.uncw.edu/search/X?SEARCH=(' + searchTerms + ')&searchscope=4&SORT=D&m=a&m=c&m=h&b=wg&b=wj&b=wr&b=wf&b=wh&b=wb&b=wc&b=we&b=wi&b=wl&b=wn&
      if ((response.resultsCount !== '1') && (response.resultsCount !== 'X')) {
        $("#bento-results-books .bento-results-footer img.bento-see-all").attr("src", externalLink);
        $("#bento-results-books .bento-results-footer img.bento-more-options").attr("src", moreOptions);
        $("#bento-results-books .bento-results-footer img").show();
        $("#bento-results-books .bento-results-footer a.bento-see-all-link").attr("href", viewAll);
        $("#bento-results-books .bento-results-footer a.bento-see-all-link").text("See all " + numberWithCommas(response.resultsCount) + " results");
        $("#bento-results-books .bento-results-footer a.bento-more-options-link").attr("href", catalogAdvancedPart1 + searchTerms + catalogAdvancedPart2 + searchTerms);
        $("#bento-results-books .bento-results-footer a.bento-more-options-link").text("More search options");
        $("#bento-results-books .bento-results-footer a").show();
      }
    }
  },
  error: function() {
    $('.bento-results-content-databases').html('<span class="bento-error">This search of the Library Catalog could not be completed.</span>');
  }
});
```

IMPLICATIONS & FUTURE

IMPLICATIONS

- Changes to bib codes (e.g., eBooks) to be able to limit search
- Affected Summon implementation choices (e.g., MARC mapping)
- Homepage search box



FUTURE CONSIDERATIONS

- Response time
- Move away from screen scraping
- Missing collections
- More usability testing
- EBooks
- Audiobooks
- Alternatives like Blacklight or VuFind

QUESTIONS?

IMAGE CREDITS

- https://www.tastemade.com/articles/8-throwback-facts-about-lunchables-to-make-you-super-nostalgic
- http://www.molevol.org/the-buffet-and-the-sushi-conveyor/
- https://www.youtube.com/watch?v=7TvVxPzyGTY