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Upgrade Your View of the Web with Browser Extensions

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The background features a dark blue gradient with a starry space pattern. Overlaid on this are several technical diagrams, including circular gauges with numerical scales (e.g., 40, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260) and various circular arrows indicating rotation or flow. The main title is centered in large, white, sans-serif font.

UPGRADE YOUR VIEW OF THE WEB WITH BROWSER EXTENSIONS

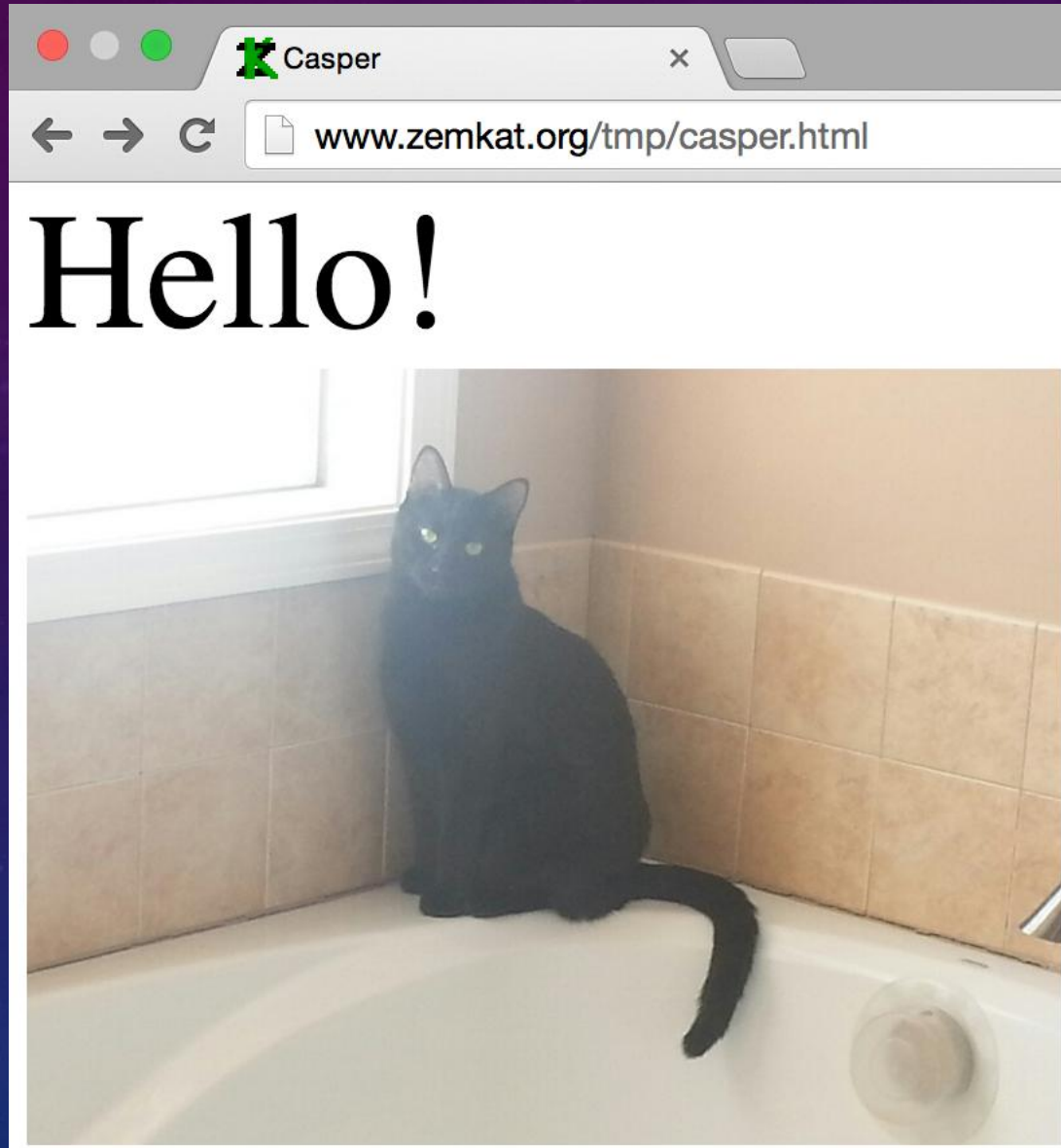
KATHRYN LYBARGER

@ZEMKAT

KLA/SLA JOINT SPRING CONFERENCE

#JSC2015

APRIL 15, 2015

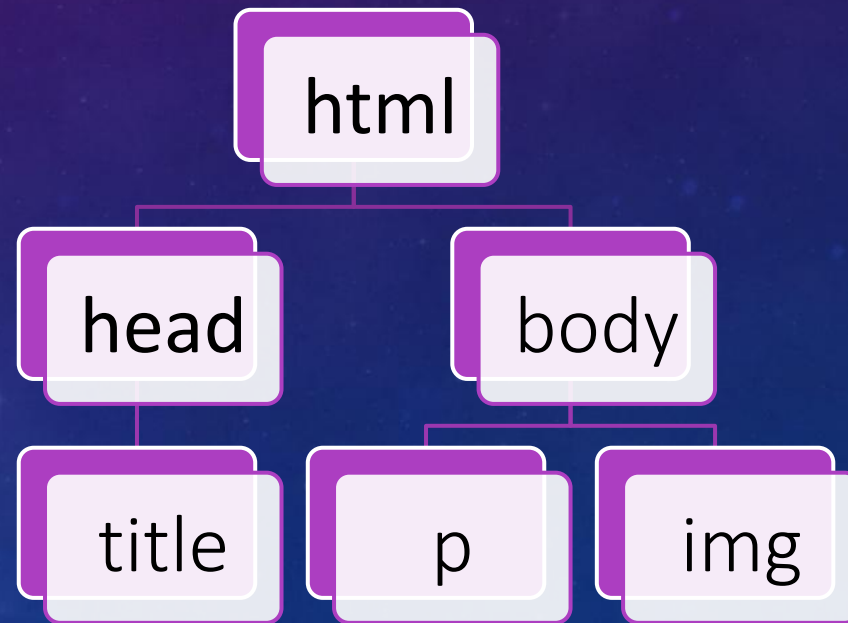


WEBSITES: UNDER THE HOOD

HTML

```
<html>  
  <head>  
    <title>Casper</title>  
  </head>  
  <body>  
    <p>Hello!</p>  
      
  </body>  
</html>
```

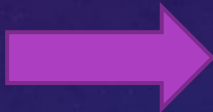
Document Object Model



BUILDING WEB CONTENT:

Static (HTML)

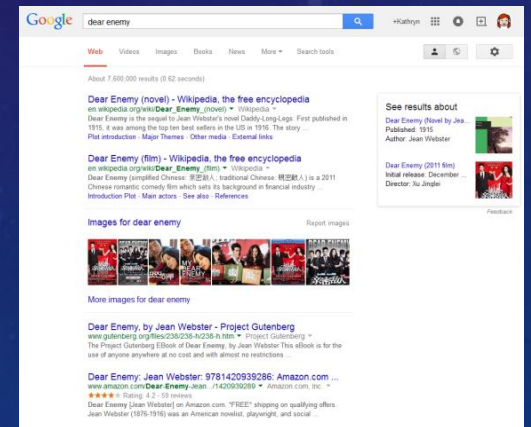
Document



Dynamic (Generated HTML)

Documents

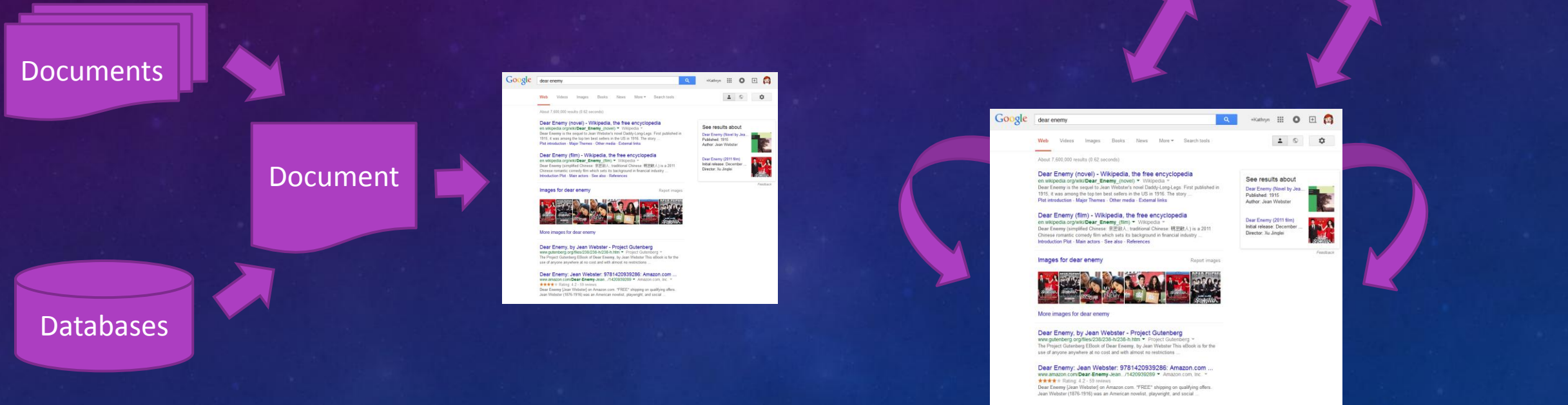
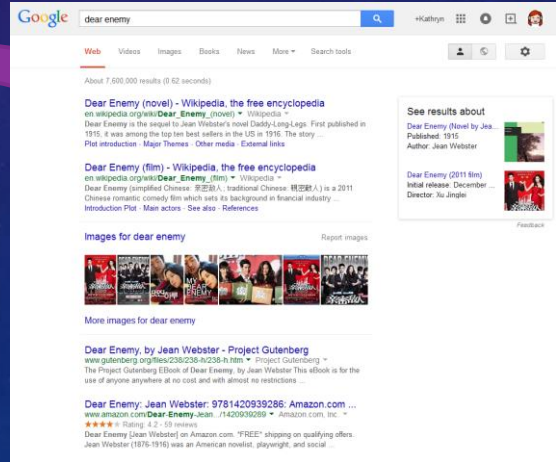
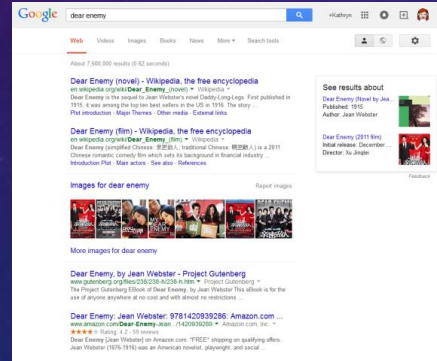
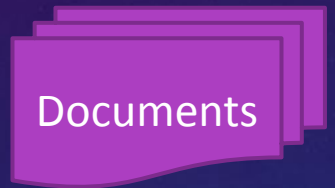
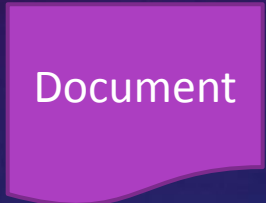
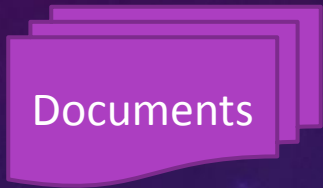
Databases



DYNAMIC WEB CONTENT

Server-side

Client-side



WEB PAGES CHANGE (BUT MAYBE NOT ENOUGH!)

- Web page maintainer may change:

- Correct or update data
- Different style/branding
- Offer a new service
- Focus for a new audience

- But you may need:

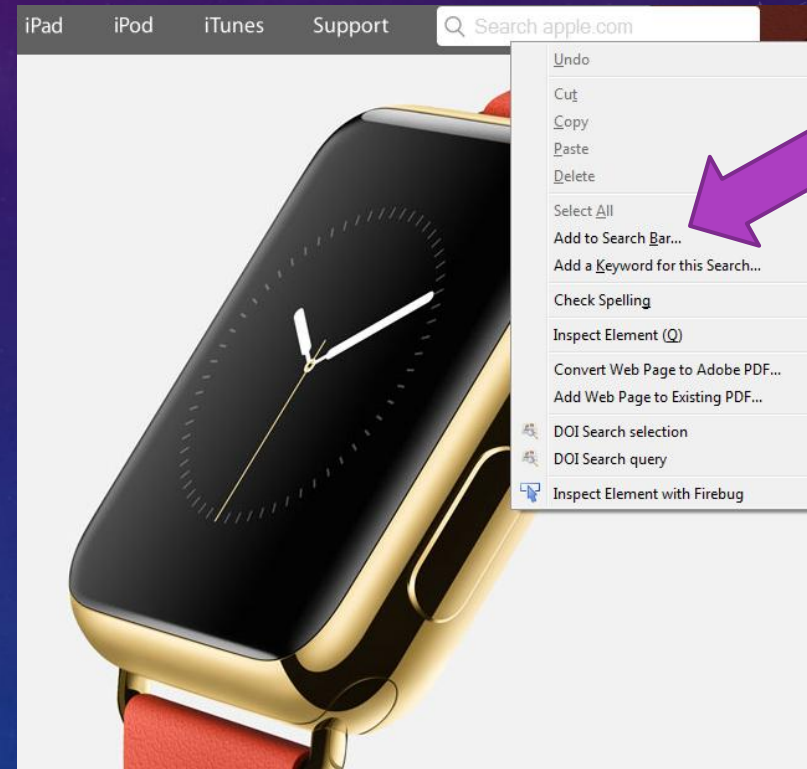
- Modified style
- Very specific data
- A service they didn't specifically intend
- Data relevant to your patrons

BROWSER SEARCH BARS

- Major web browsers allow searching directly through the browser interface
 - No need to visit sites like www.google.com
 - May be separate search box
 - Location bar (where you type URLs) works
 - You can specify default search
 - Google, Yahoo!, Bing
 - You can add other searches
 - YouTube, IMDb, AllMusic, Amazon.com, eBay
- Some of these may be more useful than others on computers in the library:
 - Google Scholar, Wikipedia, Databases
- What might be more useful?
 - Your library catalog?
 - Research guides?
 - Your digital repository?
- For library staff?
 - Cataloging resources?
 - Vocabularies?

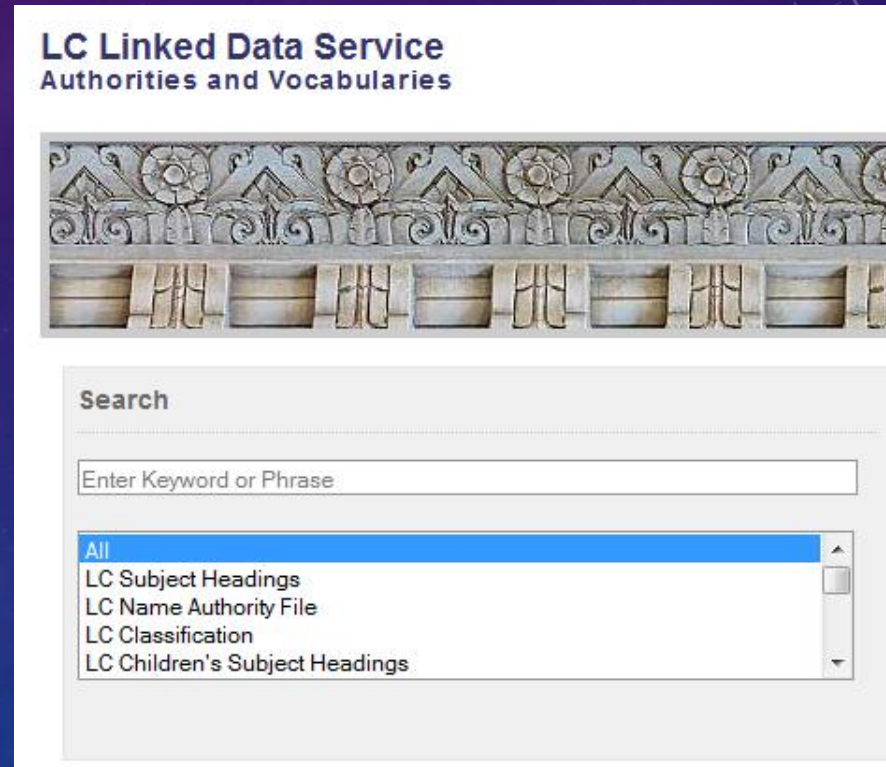
CUSTOMIZING WHICH SEARCH ENGINES ARE AVAILABLE

- You can remove any search engines that you don't recommend
- When selecting a search engine, look for "add more" to go to a library of them
- Add from the site itself
 - (Chrome adds some searches automatically!)
 - Firefox: Right-click the site search box




LC LINKED DATA SERVICE -- ID.LOC.GOV

- I now have search boxes to look up codes for:
 - MARC countries
 - MARC geographic areas
 - MARC languages
 - RDA content types
 - RDA media types
 - RDA carriers



LC Linked Data Service
Authorities and Vocabularies



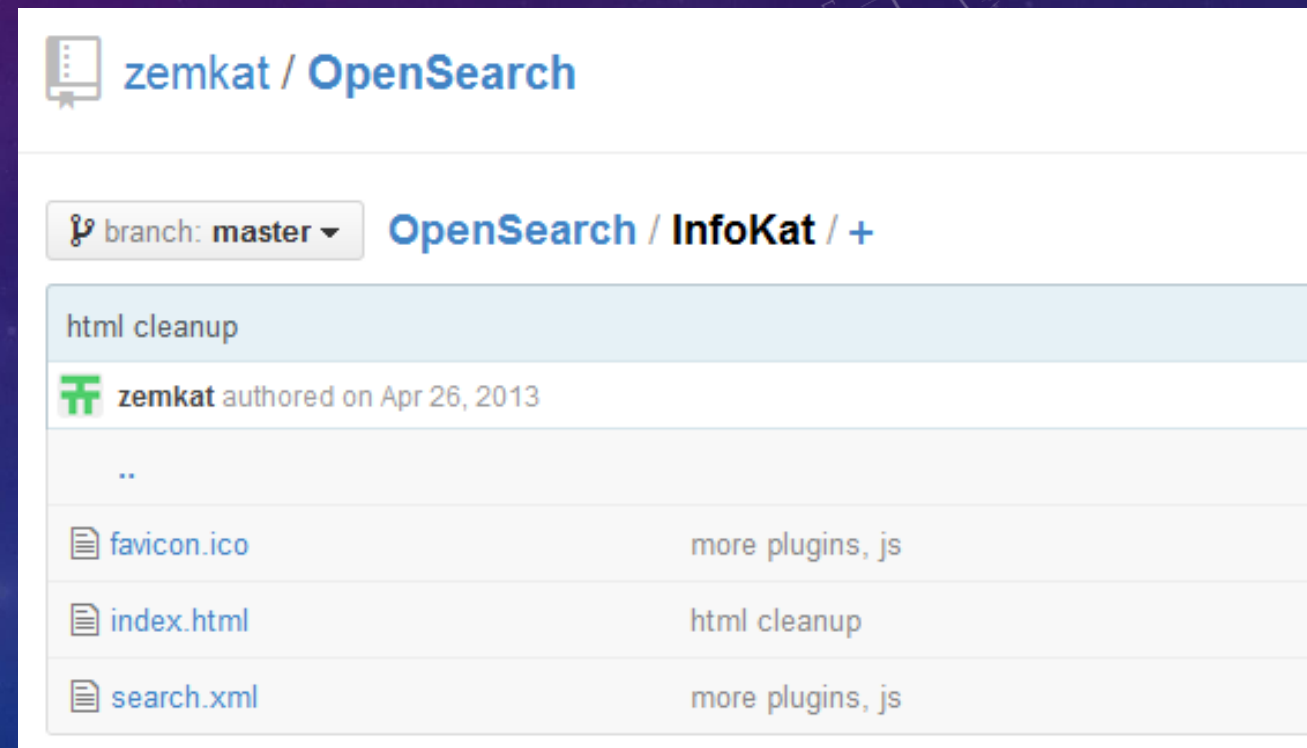
Search

Enter Keyword or Phrase

- All
- LC Subject Headings
- LC Name Authority File
- LC Classification
- LC Children's Subject Headings

CREATING CROSS-BROWSER OPENSEARCH EXTENSIONS

- Start with a simple one (check my GitHub)
 - It includes:
 - Favicon.ico - identify your search engine in a list
 - Index.html - allows auto-discovery, includes a button for installation if that's not supported
 - Search.xml - In "OpenSearch description format", describes the interface of the search engine
 - This one lets me search the Voyager catalog by record number



The screenshot shows a GitHub repository page for 'zemkat / OpenSearch'. The repository is on the 'master' branch. The file list includes:

File Name	File Type
html cleanup	
zemkat	authored on Apr 26, 2013
..	
favicon.ico	more plugins, js
index.html	html cleanup
search.xml	more plugins, js

OPENSEARCH DESCRIPTION FORMAT

```
<OpenSearchDescription xmlns="http://a9.com/-/spec/opensearch/1.1/">
  <ShortName>InfoKat (BIB ID)</ShortName>
  <Description>View this BIB ID in the InfoKat library catalog at the University of Kentucky</Description>
  <Tags>UKY</Tags>
  <Image height="16" width="16"
    type="image/x-icon">http://www.zemkat.org/CTS/OpenSearch/InfoKat/favicon.ico</Image>
  <Contact>infokat@zemkat.org</Contact>
  <Url type="text/html" template="http://infokat.uky.edu/vwebv/holdingsInfo?bibId={searchTerms}"/>
</OpenSearchDescription>
```

CONSTRUCT THE URL

- What you type into the search box will replace `{searchTerms}` in the pattern URL
- We have persistent links on our Voyager records, so I recognized that they all look the same except for the bib number. Example:
 - <http://infokat.uky.edu/vwebv/holdingsInfo?bibId=2237424>
- So the pattern URL is:
 - <http://infokat.uky.edu/vwebv/holdingsInfo?bibId={searchTerms}>

IF YOU DON'T KNOW THE PATTERN OTHERS MIGHT



zemkat @zemkat · 23 Jul 2013

Do you know how to make direct links to **#RDA** instructions? I can't get to the blog post about it: rdatoolkit.org/blog/185 **#cataloging**



jen young @jen_young · 23 Jul 2013

@zemkat access.rdatoolkit.org/17.10.1.3.html (17.10.1.3. being whatever number you need to refer to) **#RDA**

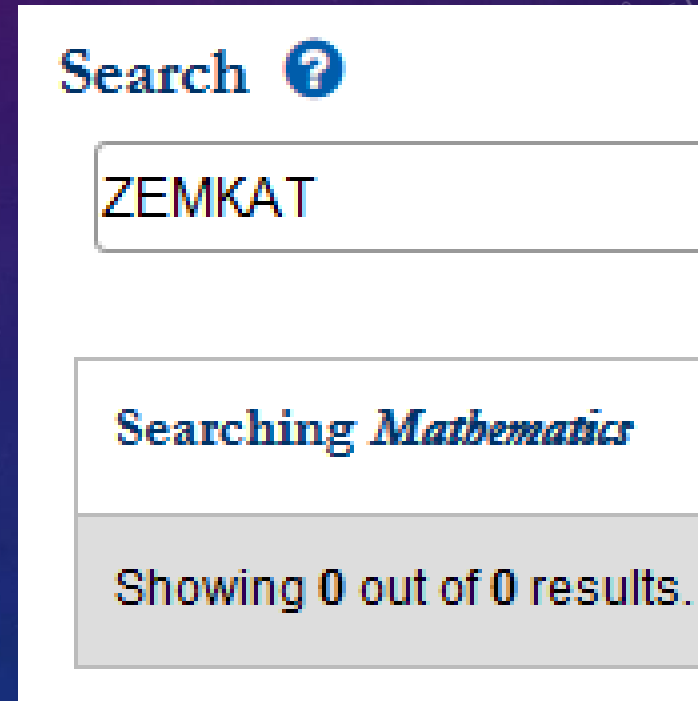
11:11 AM - 23 Jul 2013 · Details



[Hide conversation](#)

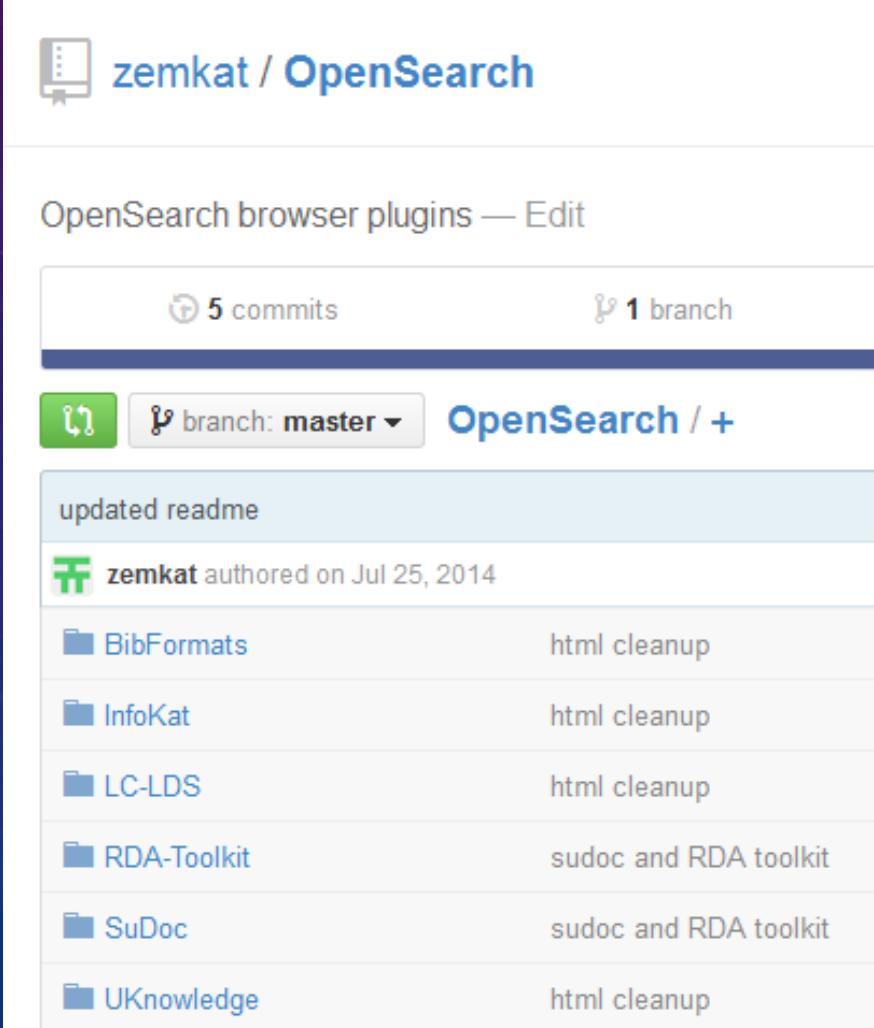
REVERSE-ENGINEERING THE URL

- Search the site for something you'll recognize
 - I usually use: ZEMKAT
- You may get no search results -- that's okay!
- Copy the URL from the location bar, and paste it into the URL tag of search.xml
- Replace your search term with:
 - {searchTerms}



OTHER SEARCH ENGINES AVAILABLE FROM GITHUB

- Available from my GitHub:
 - InfoKat - local catalog, by bib number
 - UKnowledge - institutional repository
 - LC Linked Data Service - (various)
 - RDA Toolkit - by rule number
 - OCLC BibFormats - by tag
 - SuDoc - search Monthly Catalog and Catalog of Government Publications by SuDoc number



The screenshot shows the GitHub repository page for 'zemkat / OpenSearch'. The repository has 5 commits and 1 branch. The current branch is 'master'. The repository contains a README file and a directory structure with the following files and folders:

File/Folder	Description
updated readme	
zemkat authored on Jul 25, 2014	
BibFormats	html cleanup
InfoKat	html cleanup
LC-LDS	html cleanup
RDA-Toolkit	sudoc and RDA toolkit
SuDoc	sudoc and RDA toolkit
UKnowledge	html cleanup

MONTHLY CATALOG OF U.S. GOVERNMENT PUBLICATIONS, 1895-1976

Monthly Catalog of U.S. Government Publications, 1895-1976

Quick Search: [Go!](#) [Need help?](#)

[HOME](#) [SEARCH](#) [BROWSE](#) [INFORMATION RESOURCES](#) [MY ARCHIVE](#) [HELP](#)

Search

Keyword: [Search](#)

Tip: enter SuDoc numbers in the format: "A 1.1:943" or "A 1.1". [Help](#)

Publication title: [select from a list >>](#)

Corporate/agency author: [select from a list >>](#)

Author: [select from a list >>](#)

Limit search to:

- All Content
- Monthly Catalog entries
 - Appendices
- Front/Back matter sections
 - Title page
 - List of Depository Libraries
 - Previews
 - Table of Contents
 - Abbreviations, Explanation
 - Shipments to Depositories
- Indexes
 - Subject
 - Author
 - Title
 - General Index
- Annual Indexes
 - Subject
 - Author
 - Title
 - General Index
- General Information
- How to Order Publications
- New Classification Numbers
- List of Government Authors
- Corrections

Publication date:

From: 01 Jan 1892

To: 30 Jun 1976

Include items dated approximately [Help](#)

[Marked List](#) (0 items)

[Search History](#)

[Durable URL](#)

SuDoc number:

Either search for a number: [select from a list >>](#)
E.g. "A 1.1:943", "A 1.1" [Help](#)

Or search for a range: From: [select from a list >>](#)
To: [select from a list >>](#)

Series number:

Notes:

Availability:

- Distribution made by issuing office +
- For sale by Superintendent of Documents *
- Not available for sale or distribution #
- For sale by National Technical Information Service @
- Sent to depository libraries •
- For sale by OTS, Commerce Dept Ø

Note that this limiter is only applicable to records where the symbol is used in Monthly Catalog. Early issues of Monthly Catalog did not include this information.

GPO item number: [select from a list >>](#)

Stock number: [select from a list >>](#)

Contract number: [select from a list >>](#)

L.C. card number: [select from a list >>](#)

Additional search options:

Monthly Catalog date:

From: Jan 1892

To: Jun 1976

Monthly Catalog issue number: [select from a list >>](#)

Monthly Catalog page number:

CATALOG OF GOVERNMENT PUBLICATIONS

Search the CGP / BASIC / **ADVANCED** / EXPERT / BROWSE / NEW TITLES / HELP / ABOUT

CATALOG OF U.S. GOVERNMENT PUBLICATIONS

Catalogs to Search:
[Congressional Serial Set](#) [Historic Shelflist](#) [Serials](#)
[Congressional Publications](#) [Internet Publications](#)

My Options:
[Bookshelf](#) [Results list](#)
[Preferences](#) [Previous Searches](#)

[Catalog of U.S. Government Publications Home Page](#) > National Bibliography of U.S. Government Publications

Advanced Search: Full Catalog

Search for word/"phrase" in...

Keyword(s) <input type="text"/>	<input type="text"/>	AND <input type="text"/>
Keyword(s) <input type="text"/>	<input type="text"/>	AND <input type="text"/>
Keyword(s) <input type="text"/>	<input type="text"/>	

or limit search by:

[Search Hints](#)

Limit search by:

Year/s: to: yyyy (Use ? for truncation when not using from/to)

Format:

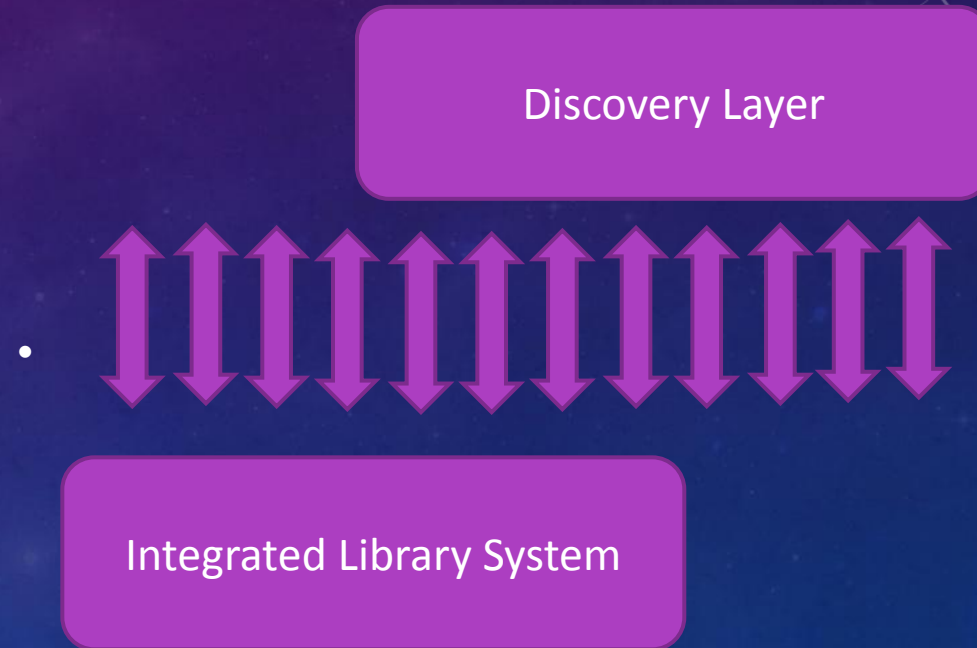
Language:

Catalogs:

- Many ways to search both resources
- I don't always remember which is for earlier titles, where the cut-off date is
- Almost always I consult these resources with the same question:
 - Is this SuDoc number valid?
- I created two OpenSearch plugins:
 - SuDoc 1895-1976
 - SuDoc 1976-now

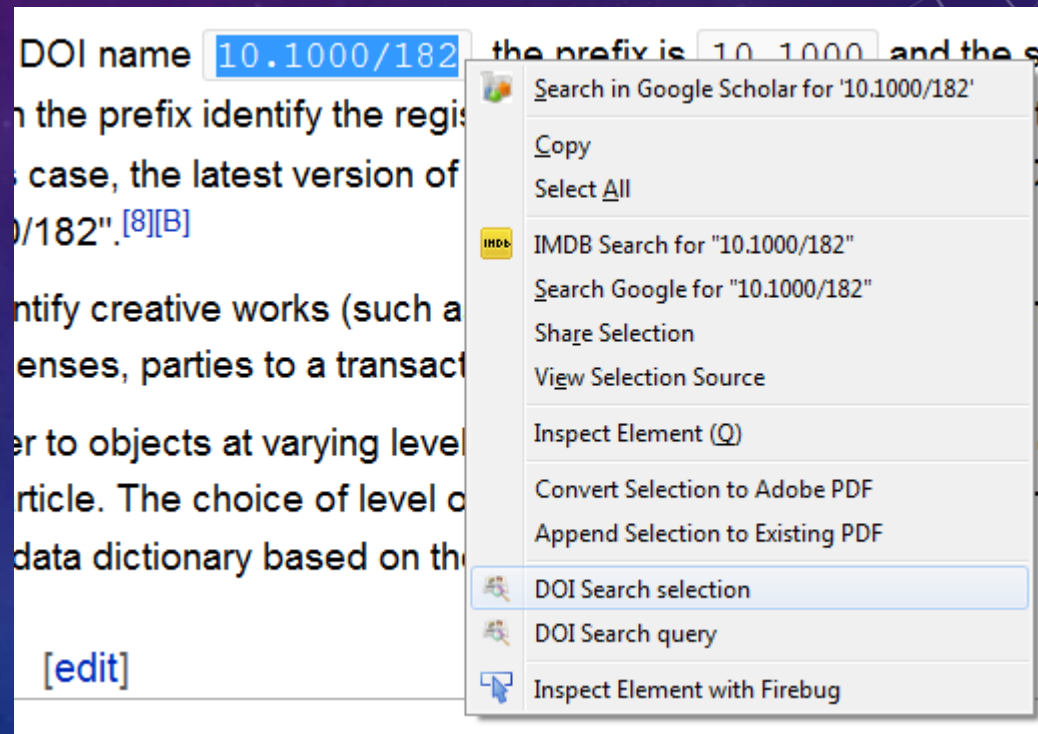
OPENSEARCH EXTENSIONS ARE JUST ASKING DIFFERENT QUESTIONS OF THE WEB SERVER

- Some servers answer more questions than others
- "web service" or "API"
- A discovery layer wants data that may or may not be available from an ILS



EXTENSIONS MAY MODIFY THE BROWSER INTERFACE

- Modify menus
 - Highlight words, look up definitions
 - Highlight words, look up in other references
 - Highlight DOI, look up reference
- Add buttons
 - More prominent than bookmarks, with icons
 - Can point to single sites
 - Can gather several into a nice interface





LibX for Google Chrome (TM)

from libx.org

★★★★★ (26)

[Search Tools](#)

55,179 users

+ ADD TO CHROME



OVERVIEW

REVIEWS

SUPPORT

RELATED

g+1 39

The screenshot shows a web browser window with the URL `en.wikipedia.org/wiki/Mars_Exploration_Rover`. The main content is the Wikipedia article for "Mars Exploration Rover". On the right side, a LibX search interface is overlaid, titled "Virginia Tech Edition". The search bar contains the text "nasa exploration mars rover" and shows "Found 14857 results in 2318ms." Below the search bar is a list of search results, each with a "NEWS" icon and a "Get VText" link. The results include titles like "NASA: NASA Mars Exploration Rover Team To Be Honored" and "NASA Mars Exploration Rover Team to be Honored". At the bottom of the LibX interface, there is a "Simple view" link and a "Timeline of the Mars Exploration Rover mission" chart.

LibX (libx.org) for Google Chrome (TM)

LibX is an extension that allows users to search their library's catalog or discovery system. Over 1000 libraries have created editions for their local communities.

For more information, see <http://libx.org>

[Report Abuse](#)

Version: 2.0.16525.0

Updated: March 31, 2015

Size: 779KB

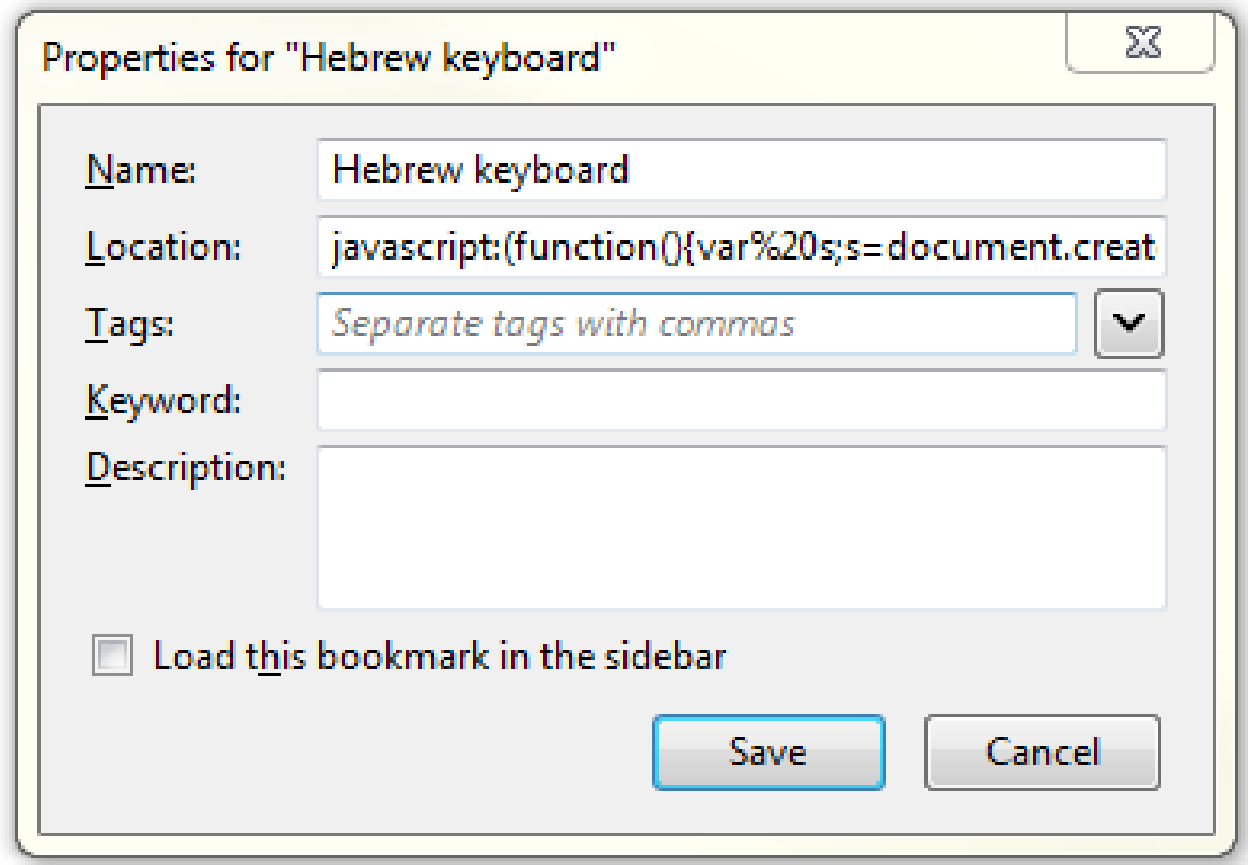
Languages: [See all 6](#)

BROWSER EXTENSIONS MAY MODIFY WEB CONTENT

- The extensions I have talked about so far mainly provide quick access to other sites, by:
 - Putting links and forms in convenient places
 - Asking servers specific questions
 - Asking servers questions for which no form is readily available
- Extensions may just work with the document currently shown by the web browser
 - May hide / delete content
 - May add content
 - May re-arrange content
 - May re-style content

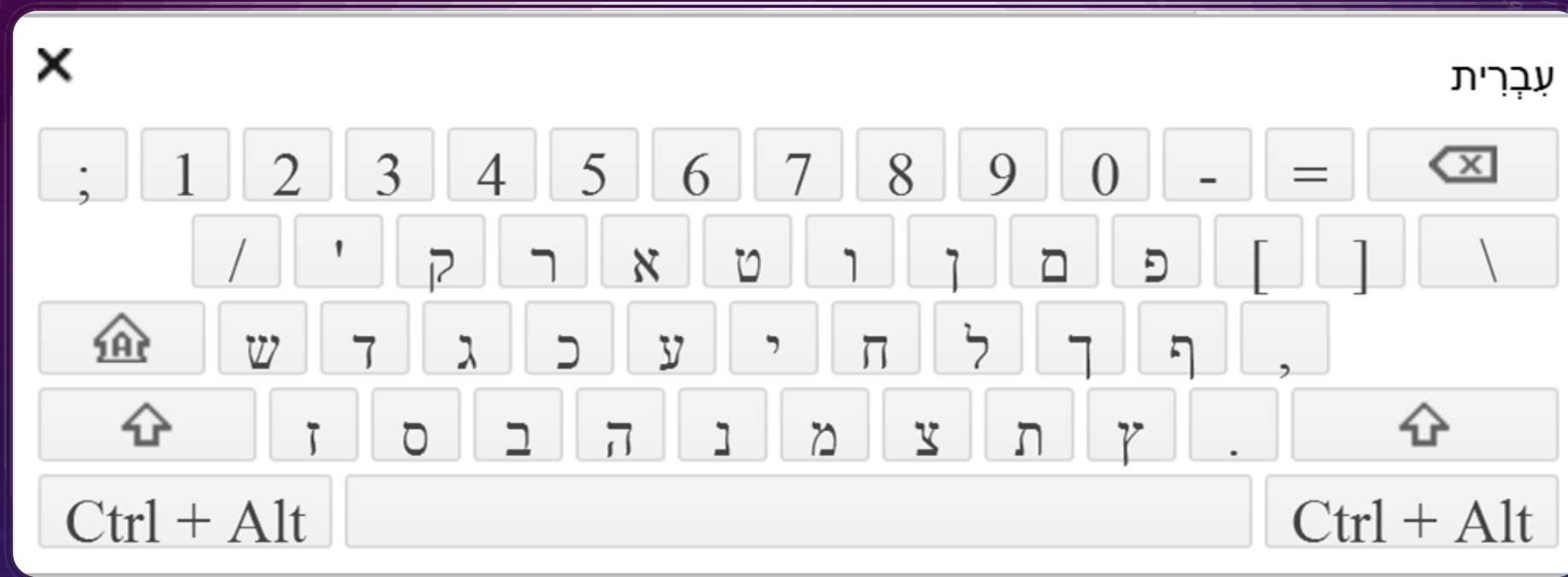
BOOKMARKLETS

- Very similar to bookmarks
- Instead of a web address, Javascript code
- Click to trigger:
 - Browser does not leave the current page
 - Code runs on current page
- May modify content of the web page
- An older style, still useful

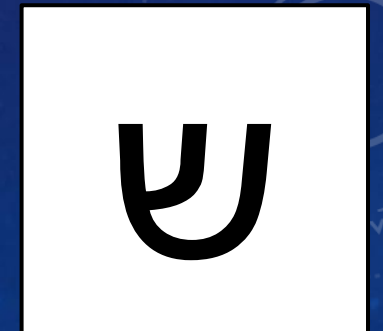


The image shows a dialog box titled "Properties for 'Hebrew keyboard'". It contains several input fields and a checkbox. The "Name" field is filled with "Hebrew keyboard". The "Location" field contains the JavaScript code: `javascript:(function){var%20s=document.creat`. The "Tags" field is filled with *Separate tags with commas* and has a dropdown arrow. The "Keyword" and "Description" fields are empty. At the bottom, there is a checkbox labeled "Load this bookmark in the sidebar" which is unchecked. There are "Save" and "Cancel" buttons at the bottom right.

<u>N</u> ame:	Hebrew keyboard
<u>L</u> ocation:	javascript:(function){var%20s=document.creat
<u>T</u> ags:	Separate tags with commas
<u>K</u> eyword:	
<u>D</u> escription:	
<input type="checkbox"/>	Load <u>t</u> his bookmark in the sidebar



- We received a large gift of Hebrew materials for cataloging
- We suspected that much of it could be copy cataloged
- None of us are good at Hebrew, but we are very good at matching up characters!
- Fortunately, OCLC records in Hebrew tend not to be Romanized (due to vowel difficulties)
- We did our typing in Google Translate whose keys were sans serif
- We wrote a bookmarklet to convert the font family on its keys to serif




USER SCRIPTS

- A popular solution these days
- Scripts run all the time (no user clicking needed)
- Install using a extension framework
 - Firefox: GreaseMonkey
 - Chrome: TamperMonkey
- You can specify which pages your scripts run on
- (Only install scripts you trust!)

Add "Tampermonkey"?

It can:

- Read and change all your data on the websites you visit
- Manage your apps, extensions, and themes



Malicious scripts can violate your privacy and act on your behalf without your knowledge.

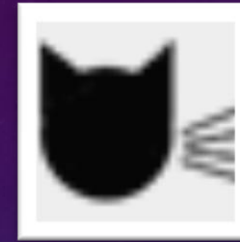
You should only install scripts from sources that you trust.

WHO CAN YOU TRUST?

- Popular extensions may have reviews from libraries who have used them successfully
- Many extensions are open source, so you can just review the code (or ask a colleague to)
- You may just know (and trust) the author



MY FIRST USER SCRIPT: CAT ACCENT!

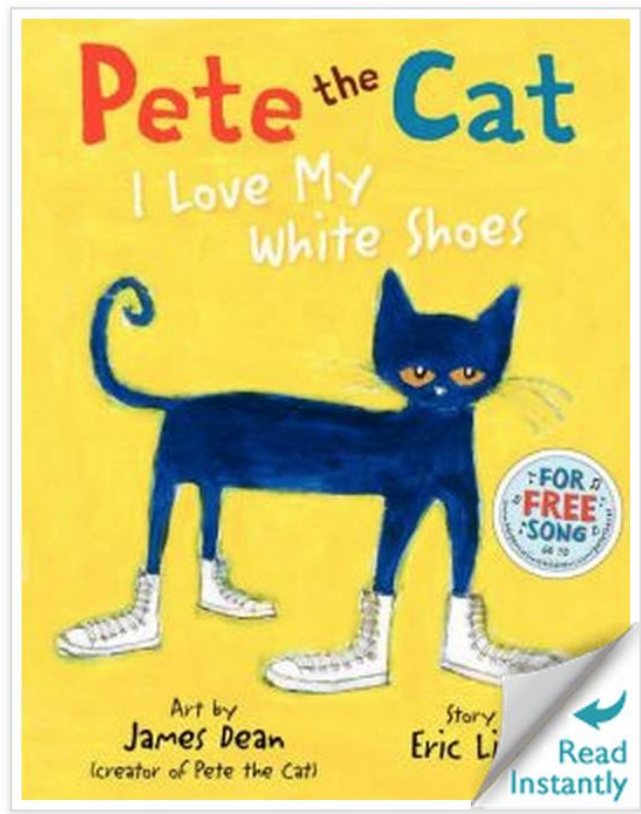


- When enabled, searches the contents of a web page for certain words, and changes them to more cat-like words:
- now -> meow
- new -> mew
- his -> hiss
- perfect -> purrfect
- ...



Search Over 30 Million Products | All Products | Search | Shopping Bag (0 items) | Spend \$25, Get **FREE SHIPPING**

Books | NOOK Books | nook | Textbooks | Bargain | Newsstand | Teens | Kids | Toys & Games | Hobbies & Collectibles | Home & Gifts | Movies & TV | Music | Gift Cards



Pete the Boss: I Love My White Shoes

by James Dean (Created by), Eric Litwin, James Dean (Illustrator)

★★★★★ (180)

Add to List +

Pin it

g+1 2

Like Share

Overview - Pete the Boss goes walking down the street wearing his brand new white shoes. Along the way, his shoes change from white to red to blue to brown to WET as he steps in piles of strawberries, blueberries, and other big messes! But no matter what color his shoes are, Pete keeps movin' and groovin' and singing his song...because it's all good. **Pete the Boss: I Love My White Shoes** asks the reader questions about the colors of different foods and objects. Don't miss Pete's other ... [See more details below](#)

Hardcover

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Add to Bag

Pick Up In Store ▾

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Usually ships within 24 hours [details](#)
Same Day delivery in Manhattan [details](#)

What Do You Do with An Idea? Only \$7.99
with the Purchase of Any Kids' Book [details](#)

LIBTECHWOMEN

- LibTechWomen is a supportive space for women and their friends to network, develop skills, build confidence, and lead positive change.
- <http://libtechwomen.org>
- Also a presence on:
 - IRC
 - Twitter
 - Tumblr
- (Join us!)
- Code Reading Groups:
 - Groups of us gather online each week and read code (usually someone else's)
 - We have read several browser extensions
 - I wrote the initial version of Cat Accent, and we used it to practice working on code together
 - Members of the group forked the repo, made modifications, and submitted pull requests
- We are always on the lookout for good (short) library-related code to read!

```

13     heb_2009=9, spa_2012=21, spa_2009=10, rus_2012=25, rus_2009=12,
14     ita_2012=22)
15
16
17 def getNgrams(query, corpus, startYear, endYear, smoothing, caseInsensitive):
18     params = dict(content=query, year_start=startYear, year_end=endYear,
19                 corpus=corpora[corpus], smoothing=smoothing,
20                 case_insensitive=caseInsensitive)
21     if params['case_insensitive'] is False:
22         params.pop('case_insensitive')
23     if '?' in params['content']:
24         params['content'] = params['content'].replace('?', '*')
25     if '@' in params['content']:
26         params['content'] = params['content'].replace('@', '=>')
27     req = requests.get('http://books.google.com/ngrams/graph', params=params)
28     res = re.findall('var data = (.?);\n', req.text)
29     data = {qry['ngram']: qry['timeseries'] for qry in literal_eval(res[0])}
30     df = DataFrame(data)
31     df.insert(0, 'year', range(startYear, endYear+1))
32     return req.url, params['content'], df
33
34
35 def runQuery(argumentString):
36     arguments = argumentString.split()
37     query = ' '.join([arg for arg in arguments if not arg.startswith('-')])
38     if '?' in query:
39         query = query.replace('?', '*')
40     if '@' in query:
41         query = query.replace('@', '=>')
42     params = [arg for arg in arguments if arg.startswith('-')]
43     corpus, startYear, endYear, smoothing = 'eng_2012', 1800, 2000, 3

```

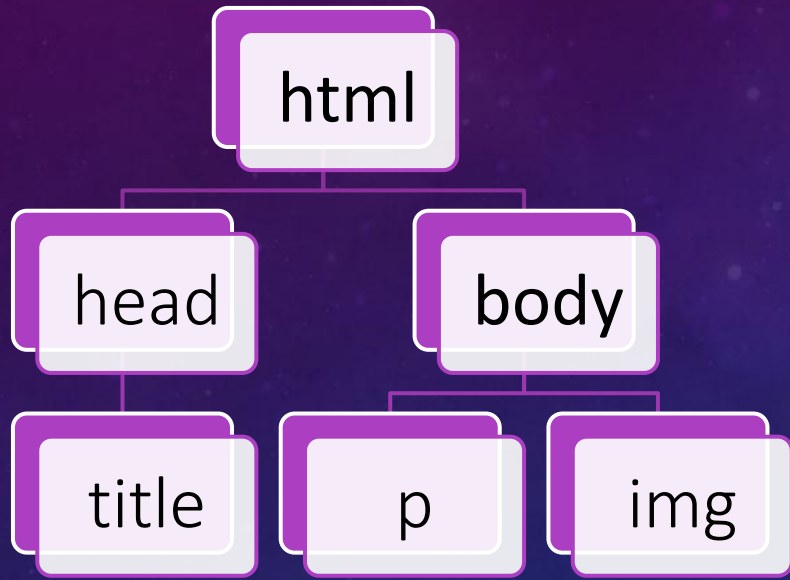


Group chat

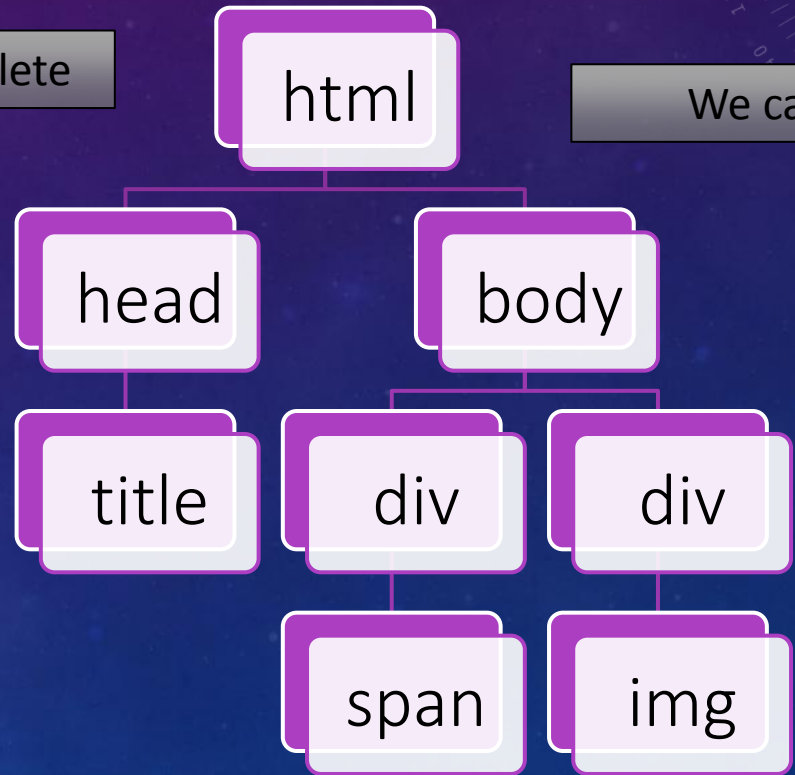
- So you can do something like "pip install -r requirements.txt" and it will get everything in the file, that version, all its dependencies
- Dorothea Salo** 5:15 PM wow
- Andromeda Yelton** 5:16 PM virtualenv overrides your path, so you use the versions of things in the virtualenv instead of system versions. So now you can have the same version of everything as all the other developers on your project, or whatever it is the best
- Dorothea Salo** 5:16 PM oh nice, because path editing is hell on wheels
- Andromeda Yelton** 5:16 PM yeppers
- me** 5:18 PM comments ftw another option would just be to put the arguments in quotes... but that might get tiresome for the user 😊
- Andromeda Yelton** 5:22 PM I'm thinking there's a lot of argument improving that could be done, seeing as they are using sys.argv instead of argparse

Enter chat message or link here

WE CAN DO MORE THAN EDIT EXISTING ELEMENTS

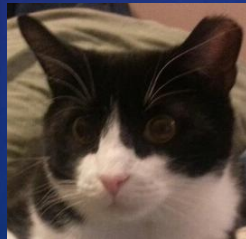


We can delete



We can rearrange

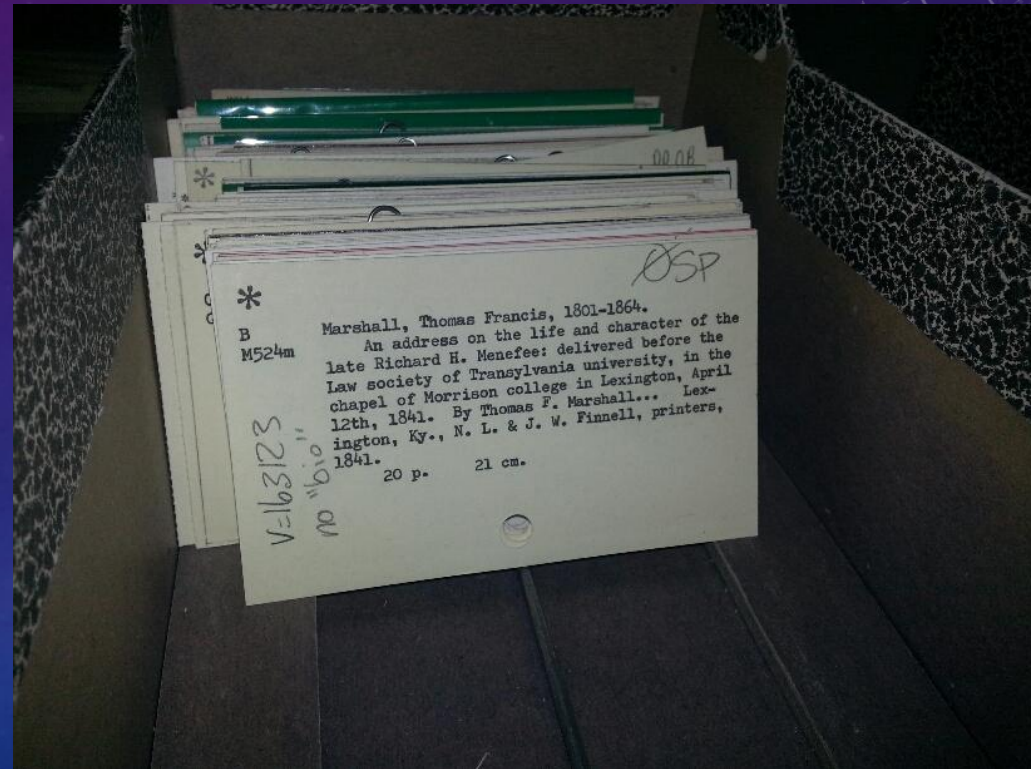
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.



We can add more structure

SPECIAL COLLECTIONS CARD CATALOG PROJECT

- Confirming that Special Collections card catalog information is in the online catalog:
 - any hand-written notes
 - particular locations/collections
 - want description to match
- Details:
 - Data is mostly correct
 - Project workers may not have Voyager access
 - We have TONS of cards



Search

My Searches

My List

My Account

[Log in](#) to account

Daddy Long Legs ; and, Dear enemy /

Title: Daddy Long Legs ; and, Dear enemy / Jean Webster ; edited with an introduction and notes by Elaine Showalter.

Author: [Webster, Jean, 1876-1916.](#)

Holdings Information

Location: Young Library - 5th Floor
Call Number: PS3545.E365 D3 2004
Status: Not Checked Out

Other author/contributors: [Showalter, Elaine.](#)
[Webster, Jean, 1876-1916. Dear enemy.](#)

Other Title: [Dear enemy](#)

Publisher: New York : Penguin Books, 2004.

Description: xx, 357 p. : ill. ; 20 cm.

Subjects: [Women college students--Fiction.](#)
[Philanthropists--Fiction.](#)
[Women authors--Fiction.](#)
[Young women--Fiction.](#)

This item

Record View

- [Staff View](#)

Actions

- [Make a Request](#)

(Select Book & Media Express-if "Not Checked Out". Otherwise, select Hold for Wait List or Recall to have item returned immediately.)

- [Print](#)

- [Export](#)

- [E-mail](#)

- [Add to My List](#)

More About This Item From

Google Books:



["About This Book"](#)

This is not usually here!

Only project workers can see it!

CARD VIEW

- "Card View" button displays relevant parts of the record in roughly "card order".
- Details of Bib and MFHD both displayed
- Bolded fields in particular should be checked against the card
- "Mark Found" adds bib number to a database
 - (update Voyager periodically)

Voyager MARC record: **2237424**

Options

[Return to InfoKat](#)

Mark found

020 __ ‡a 0143039067

100 1_ ‡a Webster, Jean, ‡d 1876-1916.

245 10 ‡a **Daddy Long Legs ; ‡b and, Dear enemy / ‡c Jean Webster ; edited with an introduction and notes by Elaine Showalter.**

246 3_ ‡a **Dear enemy**

260 __ ‡a **Mew York : ‡b Penguin Books, ‡c 2004.**

300 __ ‡a **xx, 357 p. : ‡b ill. ; ‡c 20 cm.**

504 __ ‡a **Includes bibliographical references (p. [xix]-xx).**

590 __ ‡a **Honoree: Kathryn Lybarger**

650 _0 ‡a **Women college students ‡v Fiction.**

650 _0 ‡a **Philanthropists ‡v Fiction.**

650 _0 ‡a **Women authors ‡v Fiction.**

650 _0 ‡a **Young women ‡v Fiction.**

650 _0 ‡a **Orphans ‡v Fiction.**

655 _7 ‡a **Epistolary fiction. ‡2 gsafd**

655 _7 ‡a **Bildungsromans. ‡2 gsafd**

655 _7 ‡a **Love stories. ‡2 gsafd**

700 1_ ‡a **Showalter, Elaine.**

700 12 ‡a **Webster, Jean, ‡d 1876-1916. ‡t Dear enemy.**

Holdings record #2540666

852 0_ ‡b **yl,5 ‡h PS3545.E365 ‡i D3 2004**

OTHER USER SCRIPTS



For the general web:

- Search contents of the page for ISBNs/ ISSNs
 - Add a search link to your library catalog
 - (only if title is in your catalog?)
 - Add a search link to WorldCat
- Search contents of page for electronic resource links
 - Prepend your institution's proxy prefix

For particular sites:

- It seems against the spirit of intellectual freedom to modify particular sites
- Are there any where we want to guide patrons in appropriate use?

WIKIPEDIA: LIBRARY RESOURCES BOX

- Encourage a "GWR" workflow
 - Google -> Wikipedia -> References
- Insert a "library resource" box among the external links in Wikipedia articles
- Reception varied from positive to critical
 - A helpful resource to get readers to available references
 - "Sidebox" format reserved for Wikipedia sister projects
 - Wikipedia policy says not to link to search results pages


Library resources about
Aristotle


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[Resources in your library](#)
[Resources in other libraries](#)


By Aristotle


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Find more about
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at Wikipedia's sister projects


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 [Greek Wikisource has original text related to this article:](#)
Αριστοτέλης

WHAT TO DO?

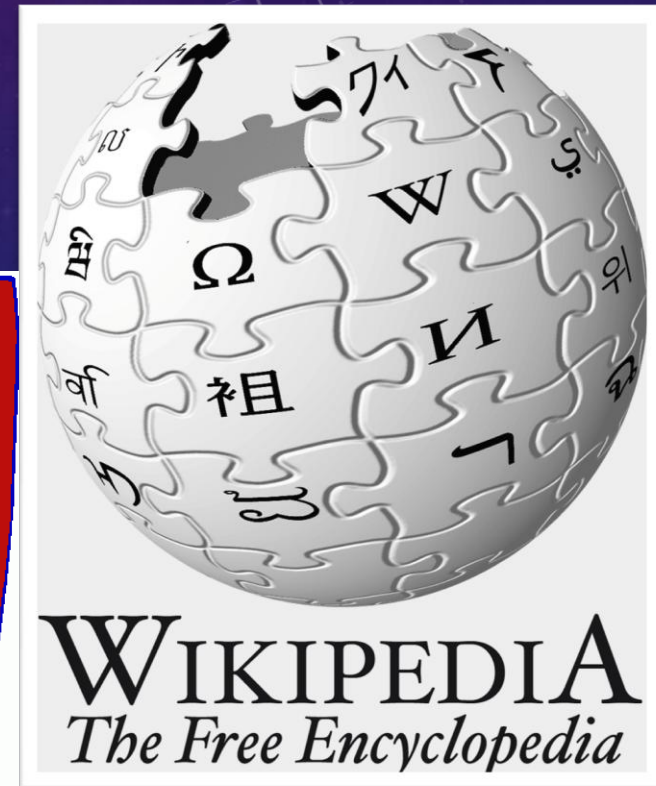
- This is a case where:
 - We want to provide particular localized access
 - The site maintainer does not want the change
- Wikipedia encourages the addition of VIAF (and other) identifiers to biographical articles
 - Already appears in over 280,000 records
 - We could focus our efforts here, where they will have broader effect

Authority control

WorldCat [↗](#) · VIAF: 31432428 [↗](#) ·
LCCN: n86140996 [↗](#) · ISNI:
0000 0001 2095 8599 [↗](#) · GND:
11876439X [↗](#) · SELIBR: 241381 [↗](#) ·
SUDOC: 027333140 [↗](#) · BNF:
cb11928912p [↗](#) (data) [↗](#) · ULAN:
500126198 [↗](#) · NLA: 35592539 [↗](#) ·
NDL: 00621629 [↗](#) · NKC:
jn19990008936 [↗](#) · RLS: 000025437 [↗](#)

CAN WE REINVENT THIS IDEA AS A BROWSER EXTENSION?

- Add specific functionality for our patrons
 - Install on computers in the library
 - Also make the extension available for download
- Trigger automatically (and seamlessly) only Wikipedia articles
- Take advantage of Authority Control already done in Wikipedia
 - Not duplicate effort in adding it twice
 - Not muddy articles with controversial info



REFERENCES

I have written blog posts about these topics:

Clear your bookmarks bar with OpenSearch browser plugins

- <http://pc.blog.zemows.org/2013/04/26/opensearch/>

Your form is too complicated; mine is faster

- <http://library-computer.tumblr.com/post/92835811896>

More general technical references:

OpenSearch: <http://www.opensearch.org/Home>

GreaseSpot: http://wiki.greasespot.net/Main_Page

User Scripts:

- GreasyFork: <https://greasyfork.org/en>

CONTACT INFORMATION

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University of Kentucky Libraries

Twitter: @zemkat

GitHub: <https://github.com/zemkat/>



- Tumblr:
 - <http://problem-cataloger.tumblr.com>
 - <http://may-subd-geog.tumblr.com>
 - <http://library-computer.tumblr.com>
 - [http:// cataloging-taught-me.tumblr.com](http://cataloging-taught-me.tumblr.com)