



(Auto-)Create User Interface

- Max Planck libraries and users share a large pool of information resources.
- Though there is central content, views and services are required to vary considerably.
- To integrate central content, RESTful services have proved to be useful.
- The challenge: ...



... provide the opportunity to create all sorts of user interfaces



Contact Local

Max-Planck-Institut für Dynamik komplexer technischer Systeme

Library Start

Welcome to the Library

Quick Access

MetaSearch

- Find print and electronic books - Library Catalogs
- Find a full text - MPG-Citation Linker
- Find ejournals - Electronic Jour
- Find online resources - MPG Vi
- Find interesting articles - Wet

My library acco

```

<!-- snippet: add to html code of page -->
<center><dd><form method="get" action="http://vlib.mpg.de/start">
<input type="hidden" name="module" value="metasearch">
<input type="hidden" name="stype" value="search_single">
<input type="hidden" name="field1" value="WRD">
<input type="text" name="term1" id="term1">
<input type="submit" value="catalog search">
</form>
</center>
<!-- CONFIGURE: add single resource IDs -->
<input type="hidden" name="db" value="MPG01913">
<input type="hidden" name="db" value="MPG04760"></dd></center>
<!-- CONFIGURE -->
</form>
<!-- end of snippet -->

```

/V?func=meta-1-check&mode=advanced&find_code_2=WRD&find_request_2=...&ckbox=MPG01913&ckbox=MPG04760



There is a need for custom interfaces (example: Aleph)

MPI for Research on Collective Goods - Library

Sign-in | End Session | User | Preferences | Contact | Help
 Search | Results List | Previous Searches | My e-Shelf

Schnellsuche: [add to my browser search box](#)

Search | Multi-field | **Classification search** | Advance

Search / Browse

Field to search:
 All fields
 Title
 Person
 Corporate Author
 Subject heading
 Year

Type word or phrase:

Search tips:
 arch*
 ?ology
 ".....*"

electronic books. you mi

BAP / Bibliographischer Apparat

[BAP](#) [MPI](#) [JUR](#) [WIR](#) [PSY](#) [POL](#) [SOZ](#) [PHI](#) [STM](#) [UMW](#) [TEL](#) [ENG](#) [VER](#) [FIN](#)

nach einem Begriff **aus der Systematik** suchen (auch Hinweise & Erläuterungen):

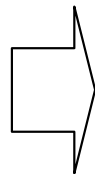
Beispiele:
[Spieltheorie](#) (Treffer < 25 = Direktanzeige)
[BAP](#) (Treffer > 25 = Übersicht)
[Recht*](#) (Treffer > 100 = zuviele Treffer)

[eu* gerichtshof OR eugh](#)

Bibliographien

BAP a 100 : Allgemeinbibliographien	dazu 8 Titel im Katalog gefunden
BAP a 200 : Biobibliographien	dazu 12 Titel im Katalog gefunden
BAP a 300 : Verzeichnisse amtlicher Akademie-, Druck- u. Hochschulschriften	dazu 11 Titel im Katalog gefunden
BAP a 400 : Serien-, Zeitschriften- u. Zeitungsbibliographien	dazu 2 Titel im Katalog gefunden
BAP a 500 : Fachbibliographien	dazu 1 Titel im Katalog gefunden
BAP a 510 : Fachbibliographien Recht	dazu 31 Titel im Katalog gefunden
BAP a 520 : Fachbibliographien Politik	dazu 2 Titel im Katalog gefunden

Aleph-X
(find, present)



AJAX
(Aleph-X)



Aleph opac, display recent acquisitions

Neuerwerbungen anzeigen:

Oktober 2009 (P)

Server:

Prod.server Entw.server (NUR ZUM TESTEN)

Systematikgruppe:

alle Gruppen auswählen

<input checked="" type="checkbox"/> BAP / Bibliographischer Apparat	<input type="checkbox"/> PHI / Philosophie
<input type="checkbox"/> MPI / Methoden, Paradigmen, Institutionen	<input type="checkbox"/> STM / Science, Te
<input type="checkbox"/> JUR / Rechtswissenschaften	<input type="checkbox"/> UMW / Umwelt
<input type="checkbox"/> WIR / Ökonomie	<input type="checkbox"/> TEL / Telekomm
<input type="checkbox"/> PSY / Psychologie	<input type="checkbox"/> ENG / Energie
<input type="checkbox"/> POL / Politikwissenschaften	<input type="checkbox"/> VER / Verkehr
<input type="checkbox"/> SOZ / Soziologie	<input type="checkbox"/> FIN / Finanzen

Dieser Service erzeugt Liste

~~op=present&set_no=061736&treffer=11&anfrage=0910&server=aleph&fields=author-title-callno&sort=author&xserveradresse=http://aleph.mpg.de/X?op=find&request=(WAB=0910)AND(WNO=0+OR+on+OR+BAP)&ba...~~

Neuerwerbungen 10/2009: 11 Titel ausgewählt

Sie haben folgende Systematikgruppen ausgewählt:

BAP / Bibliographischer Apparat

(neue Suche)
sortiert nach Verfasser

- Aratyn, Henrik: A short course in mathematical methods with Maple**
World Scientific 2006. Signatur: BAP h 220: 31
- Eger, Thomas: Internationalisierung des Rechts und seine ökonomische Analyse**
Gabler 2008. Signatur: BAP d 200: 718
- Hauke, Petra: Bibliotheken bauen und ausstatten**
Bock + Herchen 2009. Signatur: BAP i 900: 4
- Kostal, Thomas: Organisation und Funktionen des Staates im Wandel**
Facultas.wuv Univ.-Verl. 2008. Signatur: BAP d 200: 717
- : Stadatlas Großraum Köln/Bonn**
Falk [circa 2008]. Signatur: BAP b 100: 15(16)
- : München**
Falk [ca. 2009]. Signatur: BAP b 100: 5(74)
- : Köln**
Falk [ca. 2009]. Signatur: BAP b 100: 2(62)



Generate code: Deep links to directly address a specific view

▶ Link creator

[requires JS 1.5, DOM 1.0]

Please select module and service type, and specify parameters if required:

metasearch [module] locate [stype]

[title] [none]

[publisher] predefined

[any] category

- Select - [type] locate

MPG01885 [resource_id] new

search_single

create link

Note: URLs translate to MetaLib's deep linking syntax:

[/V?func=meta1&INIT_TYPE=LocateList&F-IDN=MPG01885](#)

vLib deep link:

http://vlib.mpg.de/start?module=metasearch&stype=locate&resource_id=MPG01885



3. Search in fields ... [Search Tips](#)

All Fields And GO

Author

2. Select Resources. Locate has found 1 databases in total. [More...](#) about RSS

Database Name	Database Type
<input checked="" type="checkbox"/> MPI History Science #	MPG Library Catalog i

Turn Off Auto Refresh | [top of page](#)

Public opac view



Provide static code snippet to be used on library web pages

▶ MPG/SFX Citation Linker

The MPG/SFX link resolver offers a [citation linker](#) to request services for a known reference. This feature page:

journal: yr: vol: iss: pg:

The implementation can be achieved by adding following lines to the HTML code of a web page:

```
<form method="get" action="http://sfx.mpg.de/sfx_local">
<input type="hidden" name="url_ctx_fmt" value="info:ofi/fmt:kev:mtx:ctx"/>
<input type="hidden" name="ctx_ver" value="Z39.88-2004"/>
<input type="hidden" name="rft_val_fmt" value="info:ofi/fmt:kev:mtx:journal"/>
<input type="hidden" name="rft_id" value="info:sid/source:db"/>
<input type="hidden" name="genre" value="article"/>

journal: <input type="text" name="rft.title"/>
yr: <input type="text" size="4" name="rft.date"/>
vol: <input type="text" size="4" name="rft.volume"/>
iss: <input type="text" size="4" name="rft.issue"/>
pg: <input type="text" size="4" name="rft.spage"/>

<input type="submit" value="check"/>
</form>
```



...or enable dynamic creation of code – generate OpenURL, html snippet, COinS

▶ MPG/SFX OpenURL Generator

Für die Übertragung von Metadaten an den MPG/SFX Server wird der OpenURL-Standard verwendet. Eine Einführung in [ExLibris](#) zusammengestellt. Der OpenURL Generator unterstützt Sie bei der Erstellung von OpenURLs Version 1.0 für c

Server: sid: (s. [Anm.](#))

Genre: ID:

Artikeltitlel:

Zeitschrift: ISSN:

Buch: ISBN:

Jahr: Vol: Heft: Startseite: Art-Nr:

OpenURL:

HTML Code:

COinS:

...or a search form

Select

- Search interface (QuickSearch, MetaSearch)
- Search fields to be used
- QuickSets/Databases to be searched

quicksearch metasearch

Select search fields

Use 1 search field Use 2 search fields

All Fields

-Pre-Select-

-Pre-Select-

Select search resources

Meteorol & Geostrophys (CSA)

MicroPatents (CSA)

MLA Bibliography (CSA)

MOML Legal Treatises (Gale)

MOML U.S. Supreme Court Re

MPG e-Books Index

MPG eDoc Server

MPG Journal Index

MPI Astronomy

MPI Bioinorganic Chemistry

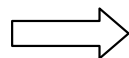
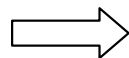
MPI Biochemical Chemistry

RSS

```
<item>
<title>MPG e-Books Index</title>
<link>http://aleph.mpg.de/F?func=file&file_
<description>The Max Planck e-Books Index prov:
<guid isPermaLink="false">http://vlib2.mpg.de/
<pubDate>31 Mar 2008 00:00:00 +0000</pubDate>
<vlib:searchable_flag>Y</vlib:searchable_flag>
</item>
```

Get

- Preview of search form
- Code of search form



```
<form action="http://vlib2.mpg.de/start">
<input type="hidden" name="module" value="metasearch">
<input type="hidden" name="stype" value="search_single">
<input type="hidden" name="field1" value="WRD">
<input type="text" name="term1">
<input type="submit" value="vLib search">
<input type="hidden" name="db" value="MPG04760">
<input type="hidden" name="db" value="MPG01913">
</form>
```




Quick and dirty: send Javascript – create form to search local sets

Quick Javascript solution

All Fields in vLib search

Users will be searching Predefined Set: address. The actual search will be carried out in the vLib search environment.

To integrate the above search box, add the following code to your HTML:

```

<script language="Javascript"
  type="text/javascript"
  src="http://vlib2.mpg.de/aleph-cgi/create_search_box.cgi">
</script>
<noscript>
  Please activate Javascript in your browser
  to display vLib search box.
</noscript>
<script>
document.write('<p><form action="http://vlib2.mpg.de/start" target="_blank">');
document.write('<input type="hidden" name="module" value="quicksearch">');
document.write('<input type="hidden" name="stype" value="search">');
document.write('<select name="field1">');
document.write('<option value="WRD">All Fields</option>');
document.write('<option value="WTI">Title</option>');
document.write('<option value="WSU">Keyword</option>');
document.write('<option value="WAU">Author</option>');
document.write('<option value="ISSN">ISSN</option>');
document.write('<option value="ISBN">ISBN</option>');
document.write('<option value="WYR">YEAR</option>');
document.write('</select>');
document.write('&nbsp;<input type="text" name="term1">');
document.write('&nbsp;<input type="text" name="group_number">');
document.write('<option value="000007589">IT Resources</option>');
document.write('<option value="000007621">Library Catalogs</option>');
document.write('<option value="000007688">OA Resources</option>');
document.write('<option value="000007799">MPG Library Catalog</option>');
document.write('</select>');
document.write('&nbsp;<input type="submit" value="vLib search"></form></p>');
  </script>

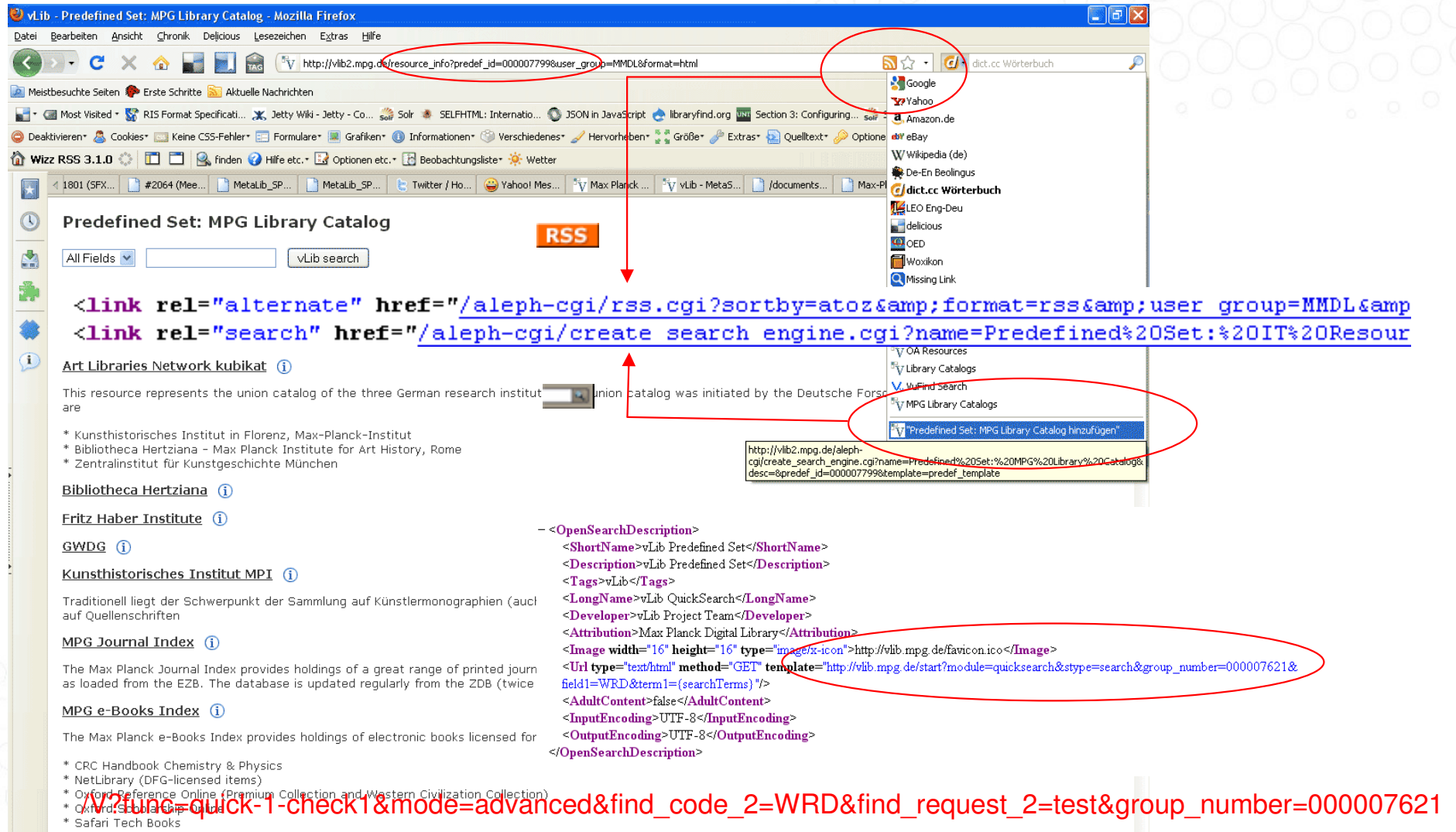
```

PLEASE NOTE: This is a quick and easy solution, however, it is not secure and which may not comply with the security standards of your site.

Problems

- Supported by Browsers?
- XSS

Simple html representation – enabling more interfaces for end users



Predefined Set: MPG Library Catalog

All Fields vLib search

RSS

```
<link rel="alternate" href="/aleph-cgi/rss.cgi?sortby=atoz&format=rss&user_group=MMDL&
<link rel="search" href="/aleph-cgi/create_search_engine.cgi?name=Predefined%20Set:%20IT%20Resour
```

Art Libraries Network kubikat ⓘ

This resource represents the union catalog of the three German research institut
are

- * Kunsthistorisches Institut in Florenz, Max-Planck-Institut
- * Bibliotheca Hertziana - Max Planck Institute for Art History, Rome
- * Zentralinstitut für Kunstgeschichte München

Bibliotheca Hertziana ⓘ

Fritz Haber Institute ⓘ

GWDG ⓘ

Kunsthistorisches Institut MPI ⓘ

Traditionell liegt der Schwerpunkt der Sammlung auf Künstlermonographien (auch auf Quellenschriften

MPG Journal Index ⓘ

The Max Planck Journal Index provides holdings of a great range of printed jourm
as loaded from the EZB. The database is updated regularly from the ZDB (twice

MPG e-Books Index ⓘ

The Max Planck e-Books Index provides holdings of electronic books licensed for

- * CRC Handbook Chemistry & Physics
- * NetLibrary (DFG-licensed items)
- * Online Reference Online (Premium Collection and Western Civilization Collection)
- * Oxford Journals Online
- * Safari Tech Books

```
<OpenSearchDescription>
<ShortName>vLib Predefined Set</ShortName>
<Description>vLib Predefined Set</Description>
<Tags>vLib</Tags>
<LongName>vLib QuickSearch</LongName>
<Developer>vLib Project Team</Developer>
<Attribution>Max Planck Digital Library</Attribution>
<Image width="16" height="16" type="image/x-icon">http://vlib.mpg.de/favicon.ico</Image>
<Url type="text/html" method="GET" template="http://vlib.mpg.de/start?module=quicksearch&stype=search&group_number=000007621&
field1=WRD&term1=(searchTerms)"/>
<AdultContent>>false</AdultContent>
<InputEncoding>UTF-8</InputEncoding>
<OutputEncoding>UTF-8</OutputEncoding>
</OpenSearchDescription>
```

http://vlib2.mpg.de/aleph-cgi/create_search_engine.cgi?name=Predefined%20Set:%20MPG%20Library%20Catalog&desc=&pref_id=000007799&template=prefdef_template

http://vlib2.mpg.de/aleph-cgi/quick-1-check1&mode=advanced&find_code_2=WRD&find_request_2=test&group_number=000007621

Use of external web services – web page instructing librarians

Tool	Google AJAX Feed API *	Yahoo! Pipes badge *	JavaScript RSS Box Viewer *
Notes	The setup requires a Google AJAX API key and a few lines of JavaScript, readily provided and documented by the Google team. The layout and positioning of the resource box is defined by some additional statements in the CSS style used by this web page. Google cuts the item description after 120 characters.	Yahoo! offers several JavaScripts which transform the output of a Y! pipe to HTML code, thus a pipe needs to be created first. The badge layout can be adapted by providing additional properties or by overriding the CSS names used by Yahoo!	Creating a mashup with the JavaScript RSS Box Viewer is very simple and does not require any kind of registration. The built-in customization options are limited, but the layout can be further influenced by a local CSS style.
Example	<p>Resources recently added</p> <p>eHRAF World Cultures 02 Juli 2009 More than 200 peoples and ethnic groups are indexed on the basis of different sources. Underlying data are results of field ...</p>	<p>vLib - new resources</p> <p>eHRAF World Cultures More than 200 peoples and ethnic groups are indexed on the basis of different sources. Underlying data are results of field research, published as ethnographic monographies, essays or manuscripts which are used as "primary data" and subject-indexed by applying a highly complex and</p>	<p>vLib - Resources 2009-11-02, 15:38h</p> <p>eHRAF World Cultures More than 200 peoples and ethnic groups are indexed on the basis of different sources. Underlying data are results of field</p>
	<pre>// vLib resource box var feedControlvlibresources = new google.feeds.FeedControl(); feedControlvlibresources.addFeed("http://vlib.mpg.de/rss/vlib_resource_feed_by_date.rss", "Resources recently added"); feedControlvlibresources.setNumEntries(8); feedControlvlibresources.draw(document.getElementById("feedControlvlibresources"));</pre>		
	<p>Archive of 10 periodicals and proceedings published by Trans Tech Publications during the period between 1984 and 2008. ...</p> <p>Vestnik Evrope e-Journals (East View) 29 Mai 2009 The journal Vestnik Evropy is among the earliest and most influential literary and political journals of Russia. The founder of ...</p> <p>JDB-EDU Social Sci & Humanities e-Journals (East View) 26 Mai 2009 The goal of this database is to provide researchers with an opportunity to cross-search the contents of major Russian ...</p> <p>Check the vLib portal for more information.</p>	<p>Integrum World Wide Integrum World Wide is the largest full text database of Russia and the CIS. Among other content, the database comprises hourly updated texts from the Russian and English press (regional and national newspapers and periodicals, monitoring services from TV and radio, press agencies), statistics (Goskomstat), legal texts, governmental publications, patents (Rospatent), belletristics, bibliographic databases of the Russian Academy of Sciences (INION), internet sources, address and phone directories, Yellow...</p> <p>Powered by Y! Pipes™</p>	<p>* Dutch Pamphlets (1486-1853): the Knuttel Collection - contains 34,000 pamphlets and is thus the most comprehensive collection of the Netherlands. The collection is hosted by the Koninklijke Bibliotheek in Den Haag. * Dutch Pamphlets (1542-1853): the Van Alphen Collection - comprises 2,800 pamphlets and is hosted by the University Library of Groningen.</p> <p>Additional keywords: history, Dutch studies</p> <p>Integrum World Wide Integrum World Wide is the largest full text database of Russia and the CIS. Among other content, the database comprises hourly updated texts from the Russian and English press (regional and national newspapers and periodicals, monitoring services from TV and radio, press agencies), statistics (Goskomstat), legal texts, governmental publications, patents (Rospatent), belletristics, bibliographic databases of the Russian Academy of Sciences (INION), internet sources, address and phone directories, Yellow Pages, etc.</p>



Conclusion

- There is always some service URL involved
- which is supported, maintained, kept stable
- by the API/application in the background.



Quotations from Librarians, Colleagues, well-known, ...

- “The more API, the better“
- “URL is user interface“
- “[It’s desirable that] everything has a URL“
- “Cool URLs don’t change“



<http://vlib.mpg.de/aboutvlib.html#feature>

Thank you for your attention