

What's new in Adlib API

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Wwwopac.ashx JSON Data Format support

- Why JSON?
 - Lighter data format *on the wire* and faster to process than XML
 - Allowed in the cross domain AJAX requests
- XML vs JSON

XML (917 chars)

```
<adlibXML>
<recordList>
  <record prirref="6" selected="False">
    <prirref>6</prirref>
    <Production>
      <creator>Engleheart, George</creator>
      <creator.role>miniaturist</creator.role>
    </Production>
    <title>
      <value lang="">William Hayley 1745-1820</value>
    </title>
  </record>
</recordList>
<diagnostic>
  <hits>1</hits>
  <xmltype>Grouped</xmltype>
  <first_item>1</first_item>
  <search>creator Equals 'eng'</search>
  <sort/>
  <limit>10</limit>
  <hits_on_display>1</hits_on_display>
  <response_time unit="ms">546.861</response_time>
  <xml_creation_time unit="ms">156.246</xml_creation_time>
  <link_resolve_time unit="ms">31.2492</link_resolve_time>
  <dbname>collect</dbname>
  <dsname/>
  <cgistring>
    <param name="database">collect.inf</param>
  </cgistring>
</diagnostic>
</adlibXML>
```

JSON (525 chars)

```
{
  "adlibXML": {
    "recordList": {
      "record": {
        "@attributes": {
          "prirref": "6", "selected": "False", "prirref": "6",
          "Production": { "creator": "Engleheart, George", "creator.role": "miniaturist",
            "Title": { "title": { "value": "William Hayley 1745-1820" } } },
          "diagnostic": { "hits": "1",
            "xmltype": "Grouped",
            "first_item": "1",
            "search": "creator Equals 'eng'", "sort": "", "limit": "10",
            "hits_on_display": "1", "response_time": "546.861", "xml_creation_time": "156.246",
            "link_resolve_time": "31.2492", "dbname": "collect", "dsname": "", "cgistring": { "param": "collect.inf" } } } } } } }
```



Wwwopac.ashx JSON request example

- Argument
 - output= json
- Example
 - [http://test.adlibsoft.com/adlibapi/api/wwwopac.ashx?database=collect.inf&search=preref>10&output =json](http://test.adlibsoft.com/adlibapi/api/wwwopac.ashx?database=collect.inf&search=preref>10&output=json)



JSON useful links

- Introducing JSON
 - <http://www.json.org/>
- JSON in JavaScript
 - <http://www.json.org/js.html>
- How to Use JSON with jQuery AJAX
 - <http://pinoytech.org/blog/post/How-to-Use-JSON-with-jQuery-AJAX>



Adlib jQuery plugin

- What is jQuery?
 - JavaScript Library
 - Lightweight (24 KB minified and gzipped)
 - Powerfull, yet easy to learn and use
 - Easy to extend
 - Well documented
 - Big developer community
 - Great plugins collection
 - Supported by Microsoft
 - Visual Studio includes the jQuery framework and intellisense functionality.





Adlib jQuery plugin

- Why jQuery?
 - Speed of execution
 - Simple and clean code
 - Promotes the development of unobtrusive code and a clear separation of concerns (HTML vs CSS vs Javascript)
 - Powerfull DOM manipulation
 - Cross-browse compatibility
 - Excellent support for AJAX requests
 - Brings back the fun of client scripting!
 - Live Demo:
 - [RKD - Art & Architecture Thesaurus](#)



Adlib jQuery plugin

- Example: Show/Hide the old way

```
<a href="#" onclick="toggle_visibility('foo');">Click here to toggle visibility of #foo</a>
```

```
function toggle_visibility(id) {  
    var e = document.getElementById(id);  
    if (e.style.display == 'block')  
        e.style.display = 'none';  
    else  
        e.style.display = 'block';  
}
```

- Example: Show/Hide with jQuery

```
$(document).ready(function () {  
    $("a").click(function () {  
        $("#more").toggle("slow");  
    });  
});
```



Adlib jQuery plugin

- Why an Adlib jQuery plugin?
 - Improve user experience in web applications
 - Call `wwwopac.ashx` directly to get data in JSON format and manipulate HTML in one step
 - Simple to use
 - Abstract the complexity of url requests to the `wwwopac.ashx`



Adlib jQuery plugin

- Syntax

```
$.adlibdata(<wwwopac.ashx url>, {<args>}, <call back function> );
```

- Example

- Retrieve the first 4 records from the collect.inf database

```
$.adlibdata("http://test.adlibsoft.com/adlibapi/api/wwwopac.ashx",  
            { database: "collect.inf", search: "all", startFrom: 1, limit: 4 },  
            Page.LoadList);
```



jQuery useful links

- jQuery homepage
 - www.jquery.com
- jQuery documentation
 - <http://docs.jquery.com/>
- jQuery API
 - <http://api.jquery.com/>