CiTO Annotation Javascript function

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# Usage

To use, download the javascript folder, and reference the CiTO files in your web page using the following code:  
  
<script type="text/javascript" src="./javascript/cito.js?reftype=REFTYPE"></script>  
<link rel="stylesheet" type="text/css" href="./javascript/cito.css">  
<script language="JavaScript" type="text/javascript" src="./javascript/jquery.min.js"></script>  
  
Replace REFTYPE with one of the following values, depending on the type of reference list:

* pubmed
  + PubMed Central and Europe PubMed Central
* elife
  + elife journal
* zookeys
  + Pensoft Zookeys journal
* plos
  + PLoS Currents journal

Open the host web page in a web browser.

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# Web Services

## CiTO Triples

A web service is available to view triples submitted using the JavaScript and Chrome functions. To view, visit <http://www.miidi.org/metaquery/cito>

# What happens when a user clicks on a CiTO property?

## CiTO property that was previously unselected

When a user clicks on a CiTO property that was previously unselected, the value is stored in the user’s web browser and also sent to an external web service and saved in a database.

### Value stored in user’s web browser

* A key-value pair is stored in the browser’s web storage facility<http://en.wikipedia.org/wiki/Web_storage> using the following statement: localStorage.setItem(key,value);
  + The **key** is set to a value created by concatenating the browser window’s url and the unique identifier for the HTML that forms the CiTO property ‘button’ in the web page.
  + The **value** is set to ‘1’.

### Value stored in external database

* An AJAX request is sent that inserts a record into a database hosted at www.miidi.org with the following fields:
  + unique id for database record (auto-increment)
  + userid - unique identifier for user - stored in browser’s web storage facility
  + timestamp - when action was taken
  + action = ‘add’
  + subject - url for the journal article == window.location.href
  + predicate - CiTO property
  + object - url (or citation text if url not available) parsed from reference item

record example:

| 294 | KDYXFJ4IM2RIAUBYRYUWPWO37BLNSD | Fri, 04 Jan 2013 17:25:34 GMT | add | <http://elife.elifesciences.org/content/1/e00248> | <http://purl.org/spar/cito/obtainsBackgroundFrom> | <http://dx.doi.org/10.1073/pnas.0700629104>

## CiTO property that was previously selected

When a user clicks on a CiTO property that was previously selected, the value is stored in the user’s web browser and also sent to an external web service and saved in a database.

### Value stored in user’s web browser

* A key-value pair is stored in the browser’s web storage facility<http://en.wikipedia.org/wiki/Web_storage> using the following statement: localStorage.setItem(key,value);
  + The **key** is set to a unique value created by concatenating the browser window’s url and the unique identifier for the HTML that forms the CiTO property ‘button’ in the web page.
  + The **value** is set to ‘0’.

### Value stored in external database

* An AJAX request is sent that inserts a record into a database hosted at [www.miidi.org](http://www.miidi.org) with the following fields:
  + userid - unique identifier for user - stored in browser’s web storage facility
  + timestamp - when action was taken
  + action = ‘remove’
  + subject - url for the journal article == window.location.href
  + predicate - CiTO property
  + object - url (or citation text if url not available) parsed from reference item

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# Browser support

With the browser-independent javascript file, the issue of browser support raises itself. There are two aspects of the code where this is relevant:

* the use of HTML5 Local Storage
* the use of XMLHttpRequest to make AJAX calls

### XMLHttpRequest

The code instantiates the XMLHttpRequest object with the following line:

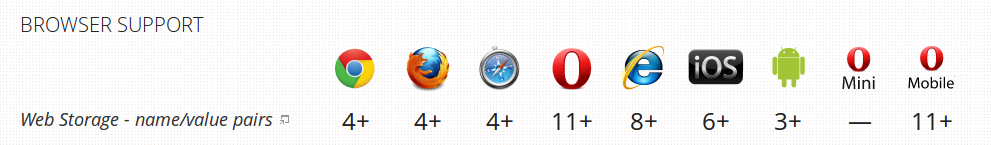
var xhr = new XMLHttpRequest();

This is supported by all modern web browsers including Chrome, Firefox, Safari, Opera and Internet Explorer 7+. It is not supported by IE6 and below.

### HTML5 Local Storage

The use of HTML5 Local Storage to store local name value pairs is supported by the latest versions of the most commonly-used web browsers, as listed at<http://www.html5rocks.com/en/features/storage>

These two features of the CiTO Javascript file mean that the web browser versions listed below are the oldest that are supported:



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