

JQDataTablesPlugin

📅 31 Mar 2016 - 10:15 | 🚩 Version 4 | 👤 [Michael Daum](#)

%%\$SHORTDESCRIPTION%

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Overview

This plugin implements a widget to enhance normal HTML tables with extra navigation features such as sorting, filtering and paginating through datasets. The %DATATABLE macro is specifically tailored towards datasets created on the base of [DataForms](#). It lets you easily compile an overview of data of that kind stored in a web as well as select specific records for further use in wiki apps.

[JQDataTablesPlugin](#) can be used in two distinct ways:

- by means of the %DATATABLE macro
- by means of HTML5 and JSON to enhance HTML tables directly

%DATATABLE takes a pointer to a DataForm definition and then creates a table based on the known formfields in that definition to create columns of a kind matching the formfield types. It then uses a connector fetch the data from the backend. There are several kinds of connectors available at the moment based on the additional functionality installed on your Foswiki:

- `search`: this one uses the normal native search feature of Foswiki also used by the %SEARCH macro
- `dbcache`: this one uses [DBCACHEPlugin](#) which is implementing a faster still native search, also available via its %DBQUERY macro
- `solr`: this connector uses the [SolrPlugin](#) which uses a Solr fulltext search engine integrated into Foswiki.

A default connector can be defined as required. Note however, that even though %DATATGABLE tries to hide the differences of available connectors behind the scene, connectors will behave differently, i.e. when it comes to filtering. Also, performance is vastly different with the `search` connector being the slowest one. It is strongly recommended that you at least install [DBCACHEPlugin](#) for acceptable performance in every-day usage.

DATATABLE

Syntax: `%DATATABLE{"<query>" parameter="..." parameter="..." ...}%`

Parameter	Description	Default
<code><query></code> , <code>query</code>		
<code>class</code>		
<code>width</code>		
<code>web</code>		
<code>form</code>		
<code>paging</code> , <code>pager</code>		

Parameter	Description	Default
<code>scrolling,</code> <code>scroller</code>		
<code>searching</code>		
<code>searchmode</code>		
<code>reverse</code>		
<code>info</code>		
<code>ordering</code>		
<code>scrollx</code>		
<code>scrolly</code>		
<code>scrollcollapse</code>		
<code>searchdelay</code>		
<code>sort</code>		
<code>lengthmenu</code>		
<code>rows</code>		
<code>columns</code>		
<code>selecting</code>		

Parameter	Description	Default
<code>selectmode</code>		
<code>selectproperty</code>		
<code>selection</code>		
<code>responsive</code>		
<code>fixedheader</code>		
<code><field-name>_title</code>		
<code><field-name>_width</code>		
<code>connector</code>		

HTML5

Adds paging, searching and formatting to your tables automatically - just add `%JQREQUIRE{"datatables"}%` to your topic or template, and wrap your tables into a `.jqDataTablesContainer`.

```
<div class="jqDataTablesContainer">
| *Header* | *Header* | *Header* | *Header* |
| Data | Data | Data | Data |
| Data | Data | Data | Data |
| Data | Data | Data | Data |
| Data | Data | Data | Data |
</div>
```

Use `jquery.metadata {options}` to configure the DataTable. See <http://datatables.net/reference/index> for a full list of all options.

Some useful parameters are:

Name	Description	Default
aaSorting	an array specifying the columns to be sorted initially; e.g. <code>'aaSorting':[[2, 'asc']]</code> will sort the third column in ascending order	<code>'aaSorting':[[0, 'asc']]</code>
aLengthMenu	an array of integers to chose from in the length select control	<code>[5, 10, 25, 50, 100]</code>
bFilter	switch on/off the filter control	false
blInfo	switch on/off the info control	false
bLengthChange	switch on/off the length select	false
bPaginate	switch on/off the paginate widget	false
iDisplayLength	number of rows to display initially	10
sPaginationType	<code>'full_numbers'</code> - a more verbose pager, or <code>'two_buttons'</code> - only a forward and backwards arrow	<code>'full_numbers'</code>

Use this to enable additional controls for filtering and pagination:

```
<div class="jqDataTablesContainer {'bFilter':true, 'bInfo':true, 'bLengthChange': true, 'bPaginate':true }">
| *Header* | *Header* | *Header* | *Header* |
| Data | Data | Data | Data |
| Data | Data | Data | Data |
| Data | Data | Data | Data |
| Data | Data | Data | Data |
</div>
```

Here's an example generating a table dynamically and then add a filter and pagination on top:

```
%STARTSECTION{"example1"}%
<div class="jqDataTablesContainer {'bFilter':true, 'bPaginate':true, 'bInfo':true }">
%SEARCH{
  "1"
  type="query"
  topic="*Plugin"
  header="| *Name* | *Date* | *Author* |"
  format="| $topic | $date | $wikiname |"
  nonoise="on"
}%
</div>
%ENDSECTION{"example1"}%
```

Name	Date	Author
AccountPlugin	03 Sep 2015 - 12:05	ProjectContributor
ActionTrackerPlugin	27 Jan 2010 - 17:07	ProjectContributor
ActivityStreamPlugin	28 Sep 2015 - 08:48	UnknownUser

Name	Date	Author
AliasPlugin	23 Dec 2012 - 17:06	ProjectContributor
AngularPlugin	24 Nov 2014 - 13:44	ProjectContributor
AntiWikiSpamPlugin	08 Jul 2015 - 02:31	ProjectContributor
ApprovalPlugin	28 Sep 2015 - 08:48	UnknownUser
AttachContentPlugin	23 Sep 2005 - 11:09	ProjectContributor
AttachmentListPlugin	22 Jun 2009 - 22:57	AdminGroup
AutoTemplatePlugin	31 Aug 2015 - 12:01	ProjectContributor
AutoViewTemplatePlugin	08 Dec 2015 - 05:16	ProjectContributor
BlogPlugin	30 Jun 2015 - 14:15	ProjectContributor
BookPlugin	11 Dec 2015 - 12:35	ProjectContributor
BpmnPlugin	02 Jan 2015 - 19:08	ProjectContributor
BreadCrumbsPlugin	28 Apr 2008 - 18:53	ProjectContributor
CalDAVPlugin	31 Aug 2015 - 04:01	ProjectContributor
CalendarPlugin	31 Aug 2015 - 04:01	ProjectContributor
CaptchaPlugin	02 Dec 2014 - 09:27	ProjectContributor
ChartPlugin	17 Nov 2004 - 07:56	ProjectContributor

Name	Date	Author
<u>ClassificationPlugin</u>	17 Jul 2015 - 13:32	<u>ProjectContributor</u>
<u>CmisPlugin</u>	23 Dec 2012 - 17:06	UnknownUser
<u>CodeMirrorPlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>CommentPlugin</u>	03 Feb 2016 - 18:16	<u>ProjectContributor</u>
<u>CompareRevisionsAddonPlugin</u>	18 Jan 2015 - 17:51	<u>ProjectContributor</u>
<u>ConfigurePlugin</u>	03 Feb 2016 - 18:16	<u>ProjectContributor</u>
<u>ContributorsPlugin</u>	28 Sep 2015 - 08:48	UnknownUser
<u>ControlWikiWordPlugin</u>	23 Dec 2012 - 17:06	UnknownUser
<u>DBCachPlugin</u>	08 Mar 2016 - 16:52	<u>ProjectContributor</u>
<u>DateTimePlugin</u>	02 Jan 2015 - 19:08	<u>ProjectContributor</u>
<u>DigestPlugin</u>	17 Nov 2009 - 14:38	<u>ProjectContributor</u>
<u>DirectedGraphPlugin</u>	19 Jul 2015 - 04:39	<u>ProjectContributor</u>
<u>DisqusPlugin</u>	16 Dec 2014 - 13:21	<u>ProjectContributor</u>
<u>DocumentViewerPlugin</u>	28 Sep 2015 - 08:50	<u>ProjectContributor</u>
<u>DpSyntaxHighlighterPlugin</u>	04 Dec 2014 - 15:08	<u>ProjectContributor</u>
<u>EasyMacroPlugin</u>	03 Nov 2009 - 11:58	<u>ProjectContributor</u>

Name	Date	Author
<u>EditChapterPlugin</u>	17 Jul 2015 - 18:22	<u>ProjectContributor</u>
<u>EditRowPlugin</u>	20 Mar 2016 - 02:01	<u>ProjectContributor</u>
<u>EditTablePlugin</u>	20 Sep 2015 - 04:05	<u>ProjectContributor</u>
<u>EmptyPlugin</u>	09 Mar 2016 - 05:04	<u>ProjectContributor</u>
<u>ExpandTopicContentPlugin</u>	28 Sep 2015 - 08:48	UnknownUser
<u>ExplicitNumberingPlugin</u>	20 Jan 2010 - 02:37	<u>ProjectContributor</u>
<u>ExportPlugin</u>	20 Jan 2010 - 02:37	<u>ProjectContributor</u>
<u>ExternalLinkPlugin</u>	23 Apr 2006 - 23:35	<u>ProjectContributor</u>
<u>FeedPlugin</u>	16 Mar 2016 - 17:05	MichaelDaum
<u>FilesysVirtualPlugin</u>	02 Mar 2015 - 16:26	<u>ProjectContributor</u>
<u>FilterPlugin</u>	17 Jul 2015 - 18:28	<u>ProjectContributor</u>
<u>FindElsewherePlugin</u>	16 Dec 2014 - 13:37	<u>ProjectContributor</u>
<u>FlexFormPlugin</u>	16 Dec 2014 - 13:37	<u>ProjectContributor</u>
<u>FlexPaperPlugin</u>	06 Dec 2010 - 15:31	<u>ProjectContributor</u>
<u>FlexWebListPlugin</u>	17 Jul 2015 - 18:33	<u>ProjectContributor</u>
<u>FlowchartPlugin</u>	17 Jul 2015 - 18:33	<u>ProjectContributor</u>

Name	Date	Author
<u>FootNotePlugin</u>	28 Apr 2015 - 11:02	UnknownUser
<u>FoswikirefsPlugin</u>	18 Aug 2014 - 22:21	<u>ProjectContributor</u>
<u>FriendFeedPlugin</u>	18 Aug 2014 - 22:21	<u>ProjectContributor</u>
<u>FunctionPlotPlugin</u>	02 Jan 2015 - 19:08	<u>ProjectContributor</u>
<u>GenPDFOfficePlugin</u>	16 Dec 2014 - 13:48	<u>ProjectContributor</u>
<u>GenPDFPrincePlugin</u>	16 Dec 2014 - 13:48	<u>ProjectContributor</u>
<u>GenPDFWeasyPlugin</u>	29 Sep 2015 - 12:12	MichaelDaum
<u>GenPDFWebkitPlugin</u>	12 Feb 2010 - 18:39	<u>ProjectContributor</u>
<u>GlobalReplacePlugin</u>	16 Dec 2014 - 13:48	<u>ProjectContributor</u>
<u>GluePlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>GnuPlotPlugin</u>	30 Apr 2014 - 20:15	<u>ProjectContributor</u>
<u>GoogleMapsPlugin</u>	12 Oct 2015 - 13:28	MichaelDaum
<u>GraphvizPlugin</u>	07 Oct 2015 - 14:30	<u>ProjectContributor</u>
<u>GridLayoutPlugin</u>	01 Sep 2015 - 14:40	<u>ProjectContributor</u>
<u>HarvestPlugin</u>	16 Dec 2014 - 14:00	<u>ProjectContributor</u>
<u>HeadlinesPlugin</u>	11 Aug 2014 - 03:09	<u>ProjectContributor</u>

Name	Date	Author
<u>HighchartsPlugin</u>	11 Aug 2014 - 03:09	<u>ProjectContributor</u>
<u>HistoryPlugin</u>	08 Sep 2015 - 18:18	<u>ProjectContributor</u>
<u>HolidaylistPlugin</u>	28 Sep 2015 - 08:48	UnknownUser
<u>HomePagePlugin</u>	19 Mar 2015 - 01:51	<u>ProjectContributor</u>
<u>HttpsRedirectPlugin</u>	28 Apr 2009 - 03:29	StephaneLenclud
<u>ICalPlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>IfDefinedPlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>ImageGalleryPlugin</u>	16 Dec 2014 - 14:20	<u>ProjectContributor</u>
<u>ImagePlugin</u>	17 Jul 2015 - 19:05	<u>ProjectContributor</u>
<u>ImapPlugin</u>	23 Dec 2012 - 17:06	UnknownUser
<u>InterwikiPlugin</u>	07 Jul 2015 - 03:58	<u>ProjectContributor</u>
<u>JQDataTablesPlugin</u>	31 Mar 2016 - 10:15	MichaelDaum
<u>JQFullCalendarPlugin</u>	04 Jan 2016 - 16:03	MichaelDaum
<u>JQGridPlugin</u>	15 Jul 2015 - 18:06	<u>ProjectContributor</u>
<u>JQTablePlugin</u>	24 Nov 2014 - 19:02	<u>ProjectContributor</u>
<u>JQWidgetsPlugin</u>	24 Sep 2015 - 08:49	<u>ProjectContributor</u>

Name	Date	Author
<u>JQueryPlugin</u>	18 Mar 2016 - 10:52	<u>ProjectContributor</u>
<u>LazyLoadPlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>LdapNgPlugin</u>	16 Dec 2014 - 14:50	<u>ProjectContributor</u>
<u>LikePlugin</u>	16 Oct 2015 - 19:57	MichaelDaum
<u>ListyPlugin</u>	01 Oct 2015 - 09:42	MichaelDaum
<u>LoremIpsumPlugin</u>	28 Jan 2015 - 14:56	<u>ProjectContributor</u>
<u>MXGraphPlugin</u>	29 Oct 2014 - 16:37	<u>ProjectContributor</u>
<u>MailerContribPlugin</u>	05 May 2015 - 20:00	<u>ProjectContributor</u>
<u>MathJaxPlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>MathModePlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>MediaElementPlugin</u>	12 Dec 2014 - 15:23	<u>ProjectContributor</u>
<u>MediaPlugin</u>	08 Mar 2009 - 01:30	<u>ProjectContributor</u>
<u>MediaWikiTablePlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>MetaCommentPlugin</u>	27 Feb 2015 - 15:42	<u>ProjectContributor</u>
<u>MetaDataPlugin</u>	29 Apr 2014 - 10:59	<u>ProjectContributor</u>
<u>MimeIconPlugin</u>	17 Jul 2015 - 19:44	<u>ProjectContributor</u>

Name	Date	Author
<u>MoreFormfieldsPlugin</u>	09 Feb 2016 - 15:21	MichaelDaum
<u>MoviePlugin</u>	16 Dec 2009 - 17:57	<u>ProjectContributor</u>
<u>MsOfficeAttachmentsAsHTMLPlugin</u>	16 Dec 2009 - 17:57	<u>ProjectContributor</u>
<u>MultiLingualPlugin</u>	16 Dec 2014 - 16:36	<u>ProjectContributor</u>
<u>NatEditPlugin</u>	06 Jan 2016 - 23:07	<u>ProjectContributor</u>
<u>NatSkinPlugin</u>	17 Jul 2015 - 19:56	<u>ProjectContributor</u>
<u>NewUserPlugin</u>	24 Dec 2014 - 21:37	<u>ProjectContributor</u>
<u>NotificationPlugin</u>	28 Sep 2015 - 08:48	UnknownUser
<u>OEmbedPlugin</u>	16 Dec 2014 - 16:50	<u>ProjectContributor</u>
<u>PageOptimizerPlugin</u>	23 Feb 2015 - 15:19	<u>ProjectContributor</u>
<u>PasswordPlugin</u>	23 Dec 2012 - 17:06	UnknownUser
<u>PatchFoswikiContribPlugin</u>	02 Oct 2015 - 21:59	<u>ProjectContributor</u>
<u>PingBackPlugin</u>	23 Dec 2012 - 17:06	UnknownUser
<u>PiwikPlugin</u>	16 Dec 2014 - 16:54	<u>ProjectContributor</u>
<u>PreferencesPlugin</u>	15 Jun 2015 - 02:26	<u>ProjectContributor</u>

Name	Date	Author
PubLinkFixupPlugin	14 Sep 2015 - 02:51	ProjectContributor
PublishPlugin	27 Aug 2014 - 12:51	UnknownUser
RandomTopicPlugin	17 Jun 2015 - 08:57	UnknownUser
RedDotPlugin	17 Jul 2015 - 19:50	ProjectContributor
RedirectPlugin	22 Jun 2007 - 23:25	ProjectContributor
RenderFormPlugin	11 Aug 2014 - 03:07	ProjectContributor
RenderListPlugin	09 Mar 2016 - 05:04	ProjectContributor
RenderPlugin	23 Dec 2012 - 17:06	ProjectContributor
RevCommentPlugin	30 Aug 2015 - 02:12	ProjectContributor
RevisionLinkPlugin	11 Aug 2014 - 03:09	ProjectContributor
RocketBoardsPlugin	15 Apr 2013 - 15:55	ProjectContributor
SecureDownloadPlugin	16 Dec 2014 - 13:37	ProjectContributor
SecurityHeadersPlugin	02 Jan 2015 - 19:08	ProjectContributor
SendEmailPlugin	08 Jan 2010 - 23:54	ProjectContributor
SetVariablePlugin	08 Jan 2010 - 23:54	ProjectContributor
SlideShowPlugin	09 Mar 2016 - 05:04	ProjectContributor

Name	Date	Author
SmiliesPlugin	17 Sep 2015 - 19:22	ProjectContributor
SoapPlugin	05 Sep 2012 - 21:12	ProjectContributor
SocialFormfieldsPlugin	18 Sep 2014 - 12:38	ProjectContributor
SocialSharePlugin	02 Jan 2015 - 19:08	ProjectContributor
SolrPlugin	18 Oct 2015 - 12:00	ProjectContributor
SpreadSheetPlugin	16 Feb 2016 - 14:19	ProjectContributor
SqlPlugin	28 Sep 2015 - 09:51	ProjectContributor
SubscribePlugin	07 Nov 2015 - 03:14	ProjectContributor
TWikiCompatibilityPlugin	15 Mar 2015 - 18:07	ProjectContributor
TablePlugin	03 Feb 2016 - 18:16	ProjectContributor
TagCloudPlugin	15 May 2014 - 13:51	ProjectContributor
TestFixturePlugin	11 Oct 2011 - 01:59	ProjectContributor
TimeSincePlugin	17 Nov 2014 - 14:05	ProjectContributor
TinyMCEPlugin	21 Jul 2015 - 19:42	ProjectContributor
TocPlugin	28 Sep 2015 - 08:48	UnknownUser
TopicDataHelperPlugin	12 Apr 2005 - 14:03	ProjectContributor

Name	Date	Author
<u>TopicInteractionPlugin</u>	17 Jul 2015 - 19:32	<u>ProjectContributor</u>
<u>TopicNameValidationPlugin</u>	23 Dec 2012 - 17:06	<u>ProjectContributor</u>
<u>TrashPlugin</u>	07 Aug 2013 - 14:15	<u>ProjectContributor</u>
<u>TreeBrowserPlugin</u>	03 Sep 2015 - 04:53	<u>ProjectContributor</u>
<u>TreePlugin</u>	02 Sep 2015 - 21:11	<u>ProjectContributor</u>
<u>TwistyPlugin</u>	21 Jul 2015 - 19:42	<u>ProjectContributor</u>
<u>TwitterPlugin</u>	16 Dec 2014 - 19:00	<u>ProjectContributor</u>
<u>UpdateAttachmentsPlugin</u>	21 Jul 2015 - 02:53	<u>ProjectContributor</u>
<u>UpdateInfoPlugin</u>	26 Jul 2006 - 18:57	<u>ProjectContributor</u>
<u>UpdatesPlugin</u>	24 Jul 2015 - 20:07	<u>ProjectContributor</u>
<u>UploadPlugin</u>	23 Jun 2009 - 18:23	<u>ProjectContributor</u>
<u>UserInfoPlugin</u>	16 Feb 2006 - 13:45	<u>ProjectContributor</u>
<u>VisioPlugin</u>	02 Jan 2015 - 19:08	<u>ProjectContributor</u>
<u>VotePlugin</u>	11 Aug 2014 - 03:05	<u>ProjectContributor</u>
<u>WebDAVLinkPlugin</u>	16 Jul 2015 - 08:38	UnknownUser
<u>WebLinkPlugin</u>	29 Nov 2010 - 15:45	<u>ProjectContributor</u>

Name	Date	Author
WebSocketPlugin	20 Nov 2015 - 11:04	MichaelDaum
WikiDrawPlugin	24 Oct 2010 - 05:43	AdminUser
WorkflowPlugin	06 Nov 2015 - 11:02	MichaelDaum
WysiwygPlugin	11 Feb 2016 - 16:20	ProjectContributor
ZonePlugin	15 Feb 2010 - 10:11	ProjectContributor

JQDataTablesPlugin comes with additional sorting features for specific types of data:

- numeric
- string
- date (extended to be able to parse Foswiki's default date format)
- currency
- metrics (e.g. killo, mega, giga, tera, ...)

Click on the table headers to sort the columns according to their data type.

```
%STARTSECTION{"example2"}%
<div class="jqDataTablesContainer">
| ** | *String* | *Date* | *Number* | *Currency* | *Size* |
| 3 | ActionTrackerPlugin | 27 Jan 2010 - 17:07 | 1 | 1,00 | 10KB |
| 1 | AntiWikiSpamPlugin | 03 Jan 2013 - 09:07 | 10 | 10,00 | 3GB |
| 2 | BibtexPlugin | 13 May 2012 - 02:59 | 0.01 | 1,01 | 100MB |
| 5 | CommentPlugin | 10 Apr 2011 - 23:39 | 100 | 0,10 | 2024kB |
| 4 | FindElsewherePlugin | 23 Dec 2012 - 17:06 | 20 | 100,- | 0.1kB |
| 6 | FindElsewherePlugin | | 0 | -100,- | 1024TB |
</div>
%ENDSECTION{"example2"}%
```

#	String	Date	Number	Currency	Size
3	ActionTrackerPlugin	27 Jan 2010 - 17:07	1	1,00	10KB
1	AntiWikiSpamPlugin	03 Jan 2013 - 09:07	10	10,00	3GB
2	BibtexPlugin	13 May 2012 - 02:59	0.01	1,01	100MB
5	CommentPlugin	10 Apr 2011 - 23:39	100	0,10	2024kB
4	FindElsewherePlugin	23 Dec 2012 - 17:06	20	100,-	0.1kB
6	FindElsewherePlugin		0	-100,-	1024TB

Installation

%%\$INSTALL_INSTRUCTIONS%

Dependencies

%%\$DEPENDENCIES%

Change History

18 Mar 2014:	remove <code>console.log()</code> leftover; improve sorting date columns
09 Nov 2013:	implemented sorting for currency, and metrics
08 Nov 2013:	make it work under <code>{NoConflict}</code> ; enable jquery-ui theming by default now; created a non-goofy default look and feel to play nicely with a skin's table design; only add DataTables support to specific tables, not all; make it configurable with declarative metadata; compress and minify plugin assets; remove files not required by the plugin; clean up controls and css classes added by TablePlugin's; added type detector for foswiki date columns
18 Jan 2013:	Initial version