

Fundamentals of Joomla! Extension Development

The Filesystem & Database

Joomla! Extension Types

- Modules
- Components
- Plugins

Modules

News & Events

Latest Events

- APR 13** [HUBbub 2010](#)
Workshop for the HUBzero User Community
What's the hubbub? A platform fo ...

[More events >](#)

Latest News

- FEB 17** [Doing science on the hub](#)
International Science Grid This Week -
Feature The HUBzero platform will ...
- NOV 16** [Purdue Highlights Cloud Computing Tools at SC09](#)
Facebook for scientists -- but built to facilitate
serious research rather ...
- SEP 12** [Purdue receives \\$105M to lead earthquake engineering network](#)
Advancing research and education to reduce
the devastation and loss of ...

[More news >](#)

Components

<http://hubzero.org/events>

<http://hubzero.org/news>

You are here: Events · 2010 · 04

Events: 2010/04

[Add an event](#)

Year Month Week Day

01 Apr, 2010 **HUB Owners' Forum**

01:00 PM to 02:00 PM **Category:** Meeting

This regular meeting lets Hub owners interact with the HUBzero development team. The HUBzero team will start each meeting by giving an overview of recent developments. Hub owners will be asked for their feedback about outstanding issues and relative priorities.

All Categories

← → **2010**

← → **April**

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				1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

You are here: News Archive

News Archive

- FEB 17** [Doing science on the hub](#)
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- SEP 12** [Purdue receives \\$105M to lead earthquake engineering network](#)
Advancing research and education to reduce the devastation and loss of ...
- MAY 11** [Indiana translational medicine institute pioneers secure federated identity management](#)
Translational medicine researchers from across the country can now access ...
- FEB 13** [Purdue, IU consortium aims to drive new era for research, education online](#)
A powerful Web platform that allows scientists to share research modeling ...

Keyword(s)

- All Categories (192)**
- Resources (123)
 - Animations (2)
 - Courses (3)
 - Downloads (2)
 - Learning Modules (2)
 - Notes (17)
 - Online Presentations (60)
 - Publications (6)
 - Teaching Materials (8)
 - Tools (21)
 - Workshops (2)
 - Tags (12)
 - Events (8)
 - Topics (13)
 - Members (26)
 - Groups (2)
 - Articles (8)

Log in to IndianaCTSI

Institution not listed?

Sign in with your institutional credentials

Select your institution... ▼

Select your institution...

- Educational -
- IU: All IU Campuses
- Notre Dame University
- Purdue University
- Stanford University
- Ulowa: University of Iowa
- Public -
- Google
- IndianaCTSI
- Protect Network
- Research -
- NIH: National Institutes of Health

Joomla! Administration

Partners

</about/partners>



[NSF Network for Computational Nanotechnology](#)

The NCN's vision is to connect theory, experiment, and computation in a way that makes a difference to the future of nanotechnology - both in research and education. It brings together theorists and computational scientists in the physical disciplines, computer scientists, and experimentalists who address focused research projects that begin at the atomic level and proceed to the system scale. To support these efforts, a web-based infrastructure provides high-performance computing, visualization, web-based simulation and collaboration, and leadership meetings and workshops. Finally, the NCN is creating educational resources that use simulation to make abstract concepts come alive to students at all levels.



[MARCO Focus Center for Materials, Structures and Devices \(MSD\)](#)

The mission of the MSD Center is to explore the most promising paths for microelectronics in the next two to three decades by pursuing two overlapping approaches:

- Scaling of CMOS to its ultimate limit, and
- Interdisciplinary exploration of new-frontier devices

The Center has successfully launched entirely new materials combinations for high performance CMOS applications, while pushing new frontiers for the performance of CMOS devices, such as carbon nanotubes, to new heights. The combination of novel chemical synthesis of nanotubes with advanced front-end processes borrowed from silicon technology.

Article: [Edit]

Preview Save Apply Close Help

Title: Partners Published: No Yes

Alias: partners Front Page: No Yes

Section: About Category: About

Article ID: 254
State: Published
Hits: 12364
Revised: 22 Times
Created: Tuesday, 25 January 2009 17:22
Modified: Friday, 20 November 2009 18:25

Parameters (Article)

Author: Administrator
Author Alias:
Access Level: Public
Created Date: 2005-01-25 17:22:46
Start Publishing: 2005-01-25 00:00:00
Finish Publishing: Never

Parameters (Advanced)

Metadata Information

NCN [NSF Network for Computational Nanotechnology](#)

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[/administrator/?option=com_content&task=edit&cid\[\]=254](/administrator/?option=com_content&task=edit&cid[]=254)

Module Storage - Database

Site Menus Content Components **Extensions** Tools Help Preview 0 1 Logout

Module Manager

Site Administrator

- Install/Uninstall
- Module Manager**
- Plugin Manager
- Template Manager
- Language Manager

Enable Disable Copy Delete Edit New Help

Filter: Go Reset - Select Template - - Select Position - - Select Type - - Select State -

#	<input type="checkbox"/>	Module Name▲	Enabled	Order	Access Level	Position	Pages	Type	ID
1	<input type="checkbox"/>	About	✓	3	Public	left	Varies	mod_mainmenu	17

```
mysql> select title, published, ordering, access, position, (select group_concat(menuid) from jos_modules_menu where moduleid = id) as pages, module, id from jos_modules where module not in ('mod_menu', 'mod_submenu', 'mod_dashboard') order by title limit 10;
```

title	published	ordering	access	position	pages	module	id
About	1	3	0	left	9,17,20,21,22,57,58,59,60	mod_mainmenu	17
Announcements	1	3	0	frontLeft	4	mod_events_latest	99
default	0	2	0	left	0	mod_mainmenu	51
Events Announcements	0	1	0	frontRight	4	mod_news	56
Events Calendar	0	1	0	frontLeft	4	mod_events_cal	53
Extended Statistics	1	4	0	userInfo	NULL	mod_xstats	77
Extended Who is Online	1	3	0	userInfo	NULL	mod_xwhosonline	62
Featured Profile	1	3	0	feature	0	mod_featuredmember	88
Featured Question	1	4	0	feature	4	mod_featuredquestion	93
Featured Resource	1	2	0	feature	0	mod_featuredresource	89

10 Featured Resource ✓ 2 Public feature All mod_featuredresource 89

Module Storage - Filesystem

```
user@hub001:/www/myhub$ ls modules/ administrator/modules/  
administrator/modules/  
index.html  mod_dashboard  mod_footer  mod_logged  mod_menu  mod_popular  mod_stats  mod_submenu  mod_toolbar  
mod_custom  mod_feed       mod_latest  mod_login   mod_online mod_quickicon mod_status  mod_title   mod_unread  
  
modules/  
index.html  mod_findresources  mod_mymessages  mod_poll  mod_reportproblems  mod_whosonline  
mod_archive  mod_footer         mod_mypoints    mod_polltitle  mod_resourcemenu  mod_wishvoters  
mod_banners  mod_latestnews    mod_myprofile   mod_popularfaq  mod_search         mod_wrapper  
mod_breadcrumbs  mod_latestusage  mod_myquestions  mod_popularquestions  mod_sections      mod_xflash  
mod_custom  mod_login         mod_mysessions  mod_quicktips   mod_slideshow     mod_xlogin  
mod_events_cal  mod_mainmenu     mod_my submissions  mod_quotes      mod_sliding_panes  mod_xlogin_mini  
mod_events_latest  mod_mostread    mod_mytickets   mod_random_image  mod_spotlight     mod_xpoll  
mod_featuredmember  mod_mycontributions  mod_mytools     mod_randomquote  mod_stats         mod_xsearch  
mod_featuredquestion  mod_myfavorites    mod_mywishes    mod_rapid_contact  mod_syndicate     mod_xwhosonline  
mod_featuredresource  mod_mygroups      mod_newsflash   mod_recentquestions  mod_toptags  
mod_feed       mod_my meetings  mod_notices     mod_related_items  mod_whatsnew
```


Module Administration - mod_custom

Module: [Edit]

Save
 Apply
 Close
 Help

Details

Module Type: **mod_custom**

Title:

Show Title: No Yes

Enabled: No Yes

Position:

Order:

Access Level:
Registered
Special

ID: 57

Description: This Module allows you to create your own HTML Module using a WYSIWYG editor.

Parameters

Module Parameters

Module Class Suffix:

Menu Assignment

Menus: All None Select Menu Item(s) from the List

Menu Selection:
 About Us
 - Contact Us
 - How to Cite HUBzero
 -
 - Notable Quotes
 - Usage Statistics
 -
 - Copyright Infringement Notification
 - Feedback
 - Our Cyberinfrastructure
 - Employment Opportunities
default
 default
legal

Custom Output

```

<div class="four columns first">
  <h3>The Platform</h3>
  <ul>
    <li><a href="/documentation">Documentation</a></li>
    <li><a href="/tour/features">Features</a></li>
    <li><a href="/tour/hosting">Hosting</a></li>
  </ul>
</div>
<div class="four columns second">
  <h3>The Organization</h3>
  <ul>
    <li><a href="/about">About us</a></li>
    <li><a href="/about/contact">Contact us</a></li>
    <li><a href="/legal/terms">Terms of Use</a></li>
  </ul>
</div>

```

<p>The Platform</p> <ul style="list-style-type: none"> Documentation Features Hosting 	<p>The Organization</p> <ul style="list-style-type: none"> About us Contact us Terms of Use 	<p>The Community</p> <ul style="list-style-type: none"> Members Groups Questions & Answers 	<p>This site is powered by HUBzero, a Purdue project. Copyright © 2009 HUBzero.org</p>
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Component Storage - Database

Components	Extensions	Tools
* 404 SEF		
* Answers		
📁 Banner	▶	
* Citations	▶	
📁 Contacts	▶	Contacts Categories
* Contribtool		
* Contributors		
* Documentation		
* Events	▶	
* Feedback		
* Groups		
* Hub	▶	
* Knowledge base		
* Manage Points	▶	
* Meetings		
* Members		
* Middleware		
* MyHUB		
📁 News Feeds	▶	
📁 Podcast		
📁 Polls		

```
mysql> select name, `option`, ordering, NULL as params, id from jos_components where
`option` != 'com_account' group by `option` order by ordering, name limit 10;
```

name	option	ordering	params	id
404 SEF	com_sef	0	NULL	135
Answers	com_answers	0	NULL	77
Articles	com_content	0	NULL	20
Banners	com_banners	0	NULL	1
Cache Manager	com_cache	0	NULL	32
Citations Manager	com_citations	0	NULL	92
Configuration Manager	com_config	0	NULL	21
Contacts	com_contact	0	NULL	7
Contribtool	com_contribtool	0	NULL	103
Contribute	com_contribute	0	NULL	78

Component Storage - Filesystem

```

user@hub001:/www/myhub$ ls components/ administrator/components/
administrator/components/
com_admin      com_contact    com_frontpage  com_massmail   com_plugins    com_support    com_users      com_xsearch
com_answers    com_content    com_groups     com_media       com_poll       com_tags       com_weblinks   index.html
com_banners    com_contribtool com_hub         com_members    com_resources  com_templates  com_whatsnew
com_cache      com_contribute com_installer  com_menus      com_search     com_tools      com_whois
com_categories com_cpanel     com_jobs       com_messages   com_sections   com_topics     com_wishlist
com_checkin    com_events     com_kb         com_modules    com_sef        com_trash      com_xflash
com_citations com_features   com_languages  com_myhub      com_services   com_usage      com_ximport
com_config     com_feedback  com_login      com_newsfeeds  com_store      com_userpoints com_xpoll

components/:
com_answers    com_contribute com_infrastructure com_myhub      com_sef        com_usage      com_xflash
com_banners    com_events     com_jobs          com_newsfeeds  com_store      com_user       com_ximport
com_citations  com_features   com_kb            com_poll       com_support    com_weblinks   com_xpoll
com_contact    com_feedback   com_mailto       com_register   com_tags       com_whatsnew   com_xsearch
com_content    com_groups     com_media        com_resources  com_tools      com_wishlist   index.html
com_contribtool com_hub        com_members      com_search     com_topics    com_wrapper
  
```

Component Administration - com_events

Event: [Edit]
Save Cancel

Manage Events
Manage Events Categories
Edit Config

Event

Title: * HUBbub 2010

Category: Workshop

Activity: Workshop for the HUBzero User Community

What's the hubbub? A platform for creating web sites that support scientific research, education, and collaboration, released as open source during this workshop! The HUBzero Platform is the basis of nanoHUB.org and 20 other sites, delivering hundreds of scientific tools and seminars to more than 350,000 visitors each year. HUBzero is supported by a consortium of universities

Where: IUPUI Conference Center

Contact:

Website: http://hubzero.org/hubbub2010

Tags:

Status

State	Published
Hits	0
Created	2010-01-19 13:46:40
Created by	Beth Schroeder
Last modified	2010-03-14 16:44:47
Modified by	Michael McLennan

You are here: Events > 2010 > 04 > 13 > HUBbub 2010

Events: 2010/04/13 [Add an event](#)

Year Month Week Day

HUBbub 2010

Category: Workshop

Description: Workshop for the HUBzero User Community

What's the hubbub? A platform for creating web sites that support scientific research, education, and collaboration, released as open source during this workshop! The HUBzero Platform is the basis of nanoHUB.org and 20 other sites, delivering hundreds of scientific tools and seminars to more than 350,000 visitors each year. HUBzero is supported by a consortium of universities including Purdue, Indiana, Clemson, and Wisconsin.

April

S	M	T	W	T	F	S
				1	2	3
		6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Publishing

Start date: 2010-04-13 Start Time: 08:00 AM

End date: 2010-04-14 End Time: 05:00 PM

Repeat type: Day

Every day

1 * per Week

n * per Week

Week(s) of a month repeat type week

Week 1

Week 2

Week 3

Week 4

Week 5

every other week

every 3rd week

Month

1 * per Month

Each end of the month

Year

1 * per Year

Plugin Storage - Database

Site Menus Content Components **Extensions** Tools Help Preview 0 1 Logout

Plugin Manager

- Install/Uninstall
- Module Manager
- Plugin Manager**
- Template Manager
- Language Manager

Filter: Go Reset - Select Type - - Select State -

#	<input type="checkbox"/>	Plugin Name	Enabled	Order	Access Level	Type	File	ID
1	<input type="checkbox"/>	Authentication - GMail		5	Public	authentication	gmail	3
10	<input type="checkbox"/>	Content - Page Navigation		2	Public	content	pagenavigation	17

```
mysql> select name, published, ordering, access, folder, element, null as params, id from jos_plugins order by name limit 10;
```

name	published	ordering	access	folder	element	params	id
Authentication - GMail	0	5	0	authentication	gmail	NULL	3
Authentication - Joomla	1	2	0	authentication	joomla	NULL	1
Authentication - LDAP	0	3	0	authentication	ldap	NULL	2
Authentication - OpenID	0	4	0	authentication	openid	NULL	4
Authentication - xHUB	1	1	0	authentication	xauth	NULL	57
Content - Code Hightlighter (GeShi)	0	5	0	content	geshi	NULL	15
Content - Email Cloaking	1	5	0	content	emailcloak	NULL	14
Content - Imbed PHP	1	10	0	content	kl_php	NULL	143
Content - Load Module	1	6	0	content	loadmodule	NULL	16
Content - Page Navigation	1	2	0	content	pagenavigation	NULL	17

Plugin Storage - Filesystem

```
user@hub001:/www/myhub$ ls plugins/ administrator/plugins/  
ls: cannot access administrator/plugins/: No such file or directory  
plugins/  
authentication  editors-xtd  members  search  tageditor  usage  xauthentication  xmlrpc  
content         groups      mw        support  tags        user   xhub             xsearch  
editors         index.html  resources system    tmp         whatsnew  xmessage
```

Generic Extension Administration - Parameters

```
<params>
  <param name="enabled" type="radio" default="1" label="Enable Plugin" description="PARAMENABLED">
    <option value="0">No</option>
    <option value="1">Yes</option>
  </param>
  <param name="title" type="radio" default="1" label="Site Title" description="PARAMSITETITLE">
    <option value="0">No</option>
    <option value="1">Yes</option>
  </param>
  <param name="multipage_toc" type="radio" default="1" label="Table of Contents" description="PARAMSITETOC">
    <option value="0">Hide</option>
    <option value="1">Show</option>
  </param>
  <param name="showall" type="radio" default="1" label="Show All" description="PARAMSITESHOWALL">
    <option value="0">Hide</option>
    <option value="1">Show</option>
</params>
```

Plugin: [Edit]

Save
 Apply
 Close
 Help

Details

Name:	Content - Pagebreak
Enabled:	<input type="radio"/> No <input checked="" type="radio"/> Yes
Type:	content
Plugin File:	pagebreak.php
Access Level:	Public Registered Serial

Parameters

▼ Plugin Parameters

Enable Plugin	<input type="radio"/> No <input checked="" type="radio"/> Yes
Site Title	<input type="radio"/> No <input checked="" type="radio"/> Yes
Table of Contents	<input type="radio"/> Hide <input checked="" type="radio"/> Show
Show all	<input type="radio"/> Hide <input checked="" type="radio"/> Show

```
mysql> select params from jos_plugins where folder = 'content' and element = 'pagebreak';
+-----+-----+
| params |
+-----+-----+
| enabled=1
title=1
multipage_toc=1
showall=1
```

Exercise! XML Install Manifests

- Download http://hubzero.org/com_hubbub.tar
 - » Extract to a temporary directory
 - ✓ `wget http://hubzero.org/com_hubbub.tar && tar xvf com_hubbub.tar /www/myhub/tmp/`
- Edit `hubbub.xml`
 - » Personalized header tags to suit yourself
 - » Check out the rest of the tags to see what facilities are available

Exercise! XML Install Manifests

- Check out the entries in `jos_components` in MySQL
 - » Credentials are in `/www/myhub/configuration.php`
 - » Do you see how the fields there match up with tags in the XML manifest?
 - » Guess what a row for the Hubhub component would contain
- Visit your hub's `/administration/` back-end and install the component from the temporary directory
 - » Visit your hub's `/hubhub/` path to verify installation
 - » Check `jos_components` again

