

# Joomla plugin

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# What is a plugin?

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- A plugin is a kind of Joomla! extension.
- Plugins provide functions which are associated with trigger events.
- Joomla provides a set of core plugin events, but any extension can fire (custom) events.
- When a particular event occurs, all plugin functions of the type associated with the event are executed in sequence.
- This is a powerful way of extending the functionality of Joomla.
- It also offers extension developers a way to allow other extensions to respond to their actions, making extensions extensible.

## Cont....

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- The Joomla! plugin architecture follows the Observer design pattern. The JPlugin class provides the means to register custom plugin code with core or custom events.
- The JEventDispatcher class is an event handler which calls all plugins registered for a particular event, when that event is triggered.
- In Joomla 4.x this has been moved to the \Joomla\Event\Dispatcher class in Joomla, and additionally follows the Mediator design pattern.

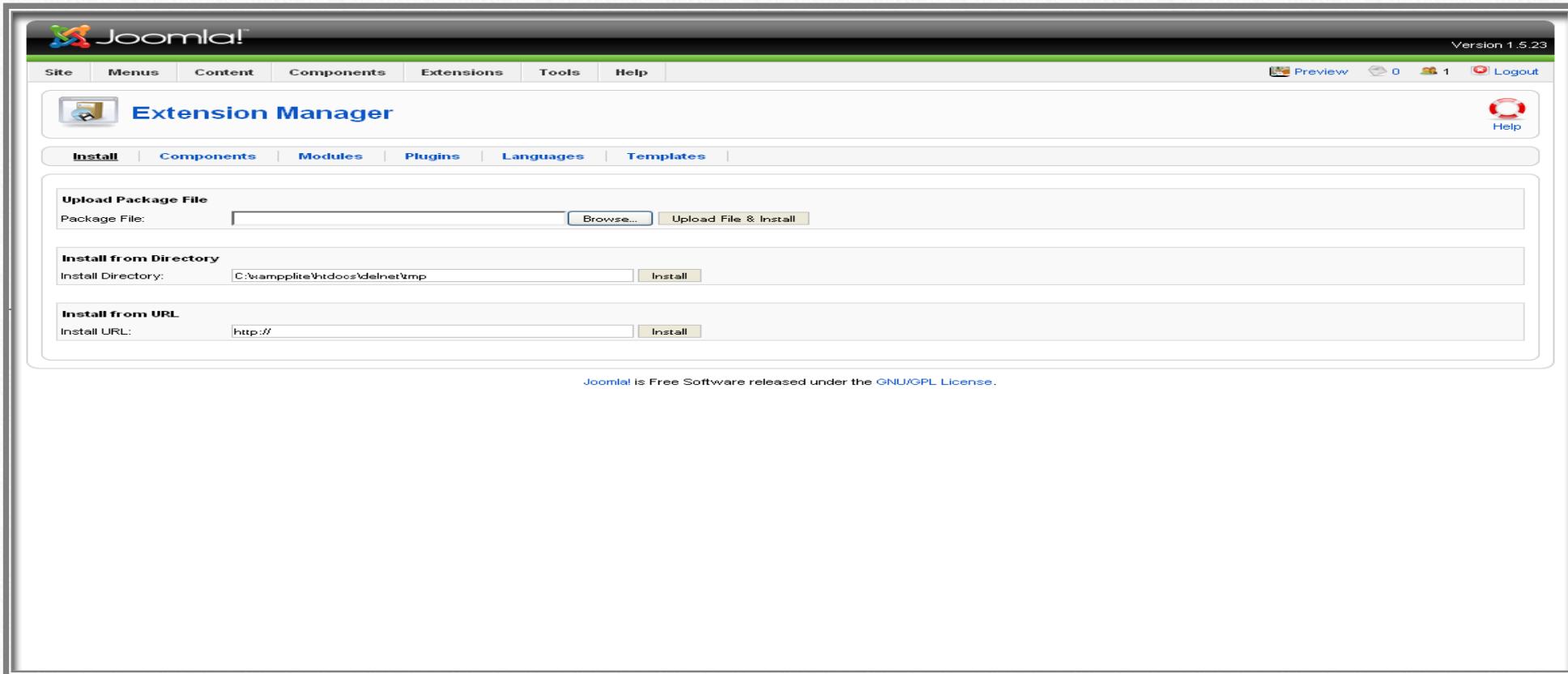
# **Essential Joomla Extensions to run your Joomla Site smoothly**

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- Joomla is considered to be the most powerful CMS and the best friend for every web developer across the globe.
  - It is a free open source content management system which is used for everything from simple websites to complex one.
  - It is very popular as it is easy to install, reliable, flexible as well as user friendly.
  - Today let's look at some of the essentials Joomla extensions to make your website user as well as admin friendly.

# Joomla Extensions

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- Extensions are add-ons that expand the functionality of Joomla!. Extensions are used to add capabilities to Joomla! that do not exist in the standard package. Hundreds of Extensions are available for Joomla!, with more being developed all of the time.
- Self-contained archived file (zip) that a non-programmer can install by simply using the Joomla menu driven install options
  - Components (additional functionality to site)
  - Modules (mostly provide interface to components e.g menus, lists, forms)
  - Bots (search capability, content editing, additional css formatting, embedding code)
  - Plug-ins (additional functionality to core)



Select the **Install** menu item in the *Extension manager* screen that appears.

# Extensions for Libraries

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- **Library Manager of Joomla!**

Joomla! Library Manager (JLibMan) provides the ability to install and uninstall custom third party libraries into Joomla! 1.5 with uninstall provided by the component and installation through the Joomla! 1.5 universal installer (like the Core supported extensions, components, etc).

URL: <http://extensions.joomla.org/extensions/core-enhancements/installers/3299>

- **Alexandria Book Library:**

Alexandria Book Library is a Joomla component that make you the ability to manage your personal book library or a public library. Alexandria Book Library is free and open source.

URL : <http://extensions.joomla.org/extensions/living/education-a-culture/books-a-libraries/14935>

- **Professional Library Management component (PLMC) :**

PLMC is designed you to manage your books and articles with cool features. PLMC provides a full-featured book library (or collection) management environment on a Joomla website.

URL Address:

[http://www.bestofjoomla.com/component?option=com\\_mtree/task,viewlink/link\\_id,105/Itemid,95/](http://www.bestofjoomla.com/component?option=com_mtree/task,viewlink/link_id,105/Itemid,95/)

# Extensions for Libraries

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- **BookLibrary Basic :**

BookLibrary provides a full-featured book library or book collection management environment on a Joomla-based website. It allows you to manage large book libraries. The component can also be used to easily set up a book selling shop using Amazon if you want. With an Amazon Associates ID (as an Amazon affiliate) you can earn credits with book sales through Amazon, while Amazon takes care of the handling and shipping.

**URL:** <http://extensions.joomla.org/extensions/living/education-a-culture/books-a-libraries/3728>

Many more.....

# Google analytics plugin

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- Normally we would embed the Google Analytics tracking code in to the template of each of the sites that we are build. In some circumstances we'd find that the end user would want more control over the Google Analytics code and would prefer to switch it on and off or insert new tracking code at their own will. So we've compiled this little plugin that allows for just that.
- This new updated version of the plugin allows for the implementation of Google Analytics in all three methods that have been known over the years from, asynchronous, universal and the new gtag methods. It is advised that you use the latest gtag method.

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- **It does not track the administrator area of your site** and embeds the required Javascript the way that Google recommends, just before the closing tag. Simple install the plug-in, add in the tracking code in to the parameters and enable the plug-in.

# Steps to asynchronous google analytics plugin joomla

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- **Asynchronous Google Analytics**
- It comes with both a free and paid version. However, for adding GA code, you only need the free version. Please follow these steps to use this plugin.
- **Step 1:** [Download](#) the plugin, and install it in your Joomla site.
- **Step 2:** Go to **Extensions/ Plugins**, search for: **System - Google Analytic**.
- **Step 3:** In the **Options tab**, fill in your GA tracking ID.
- Note: you can find the tracking ID when getting GA tracking code.
- **Step 4: Enable the Plugin.**

## ⚡ Plugins: System - Google Analytics

Save     Save & Close     Close

[Plugin](#)   [Options](#)

Code type

Universal  
 Asynchronous

Google Analytics Web Property ID.

UA-131303864-1

Domain

auto

Google Webmaster Tools META Verification (optional)

# Verify your tracking code set up

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- To see if it works or not, you can check in the active user visitor in your control panel. In the meantime, also open your website in another browser tab. If you see your real-time visitors increasing, then it works.



All accounts > testjoomlashine  
All Web Site Data ▾



Search reports and help

Home

Customization

REPORTS

Real-Time

Audience

Acquisition

Behavior

Conversions

Google Analytics Home

INSIGHTS

Users Sessions Bounce Rate Session Duration

0 0 0 0

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Export CSV Add All Keywords

15 16 17 18 19 20 21

Last 7 days ▾

AUDIENCE OVERVIEW ▾

Active Users right now

1

Page views per minute



Top Active Pages

/about-us

Active Users

1

REAL-TIME REPORT ▾

# Administration of a Plugin in Joomla

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- A plugin is one of the five core Joomla! extension (Components, Modules, Plugins, Template and Languages) and is used to add extra functionality which might not be inbuilt in your template, thus a plugin adds more features into a component or module. For example it might add an extra form into a component (like the Profile Plugin), add shortcuts in for URLs or other code (like a BBCode Parser) or even give more advanced functionality like provide an extra authentication method (like the ability to login with Facebook Login).

# Installing a Plugin

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- A plugin is installed like other extensions (templates, components and modules) are installed. To find out how to install extensions.

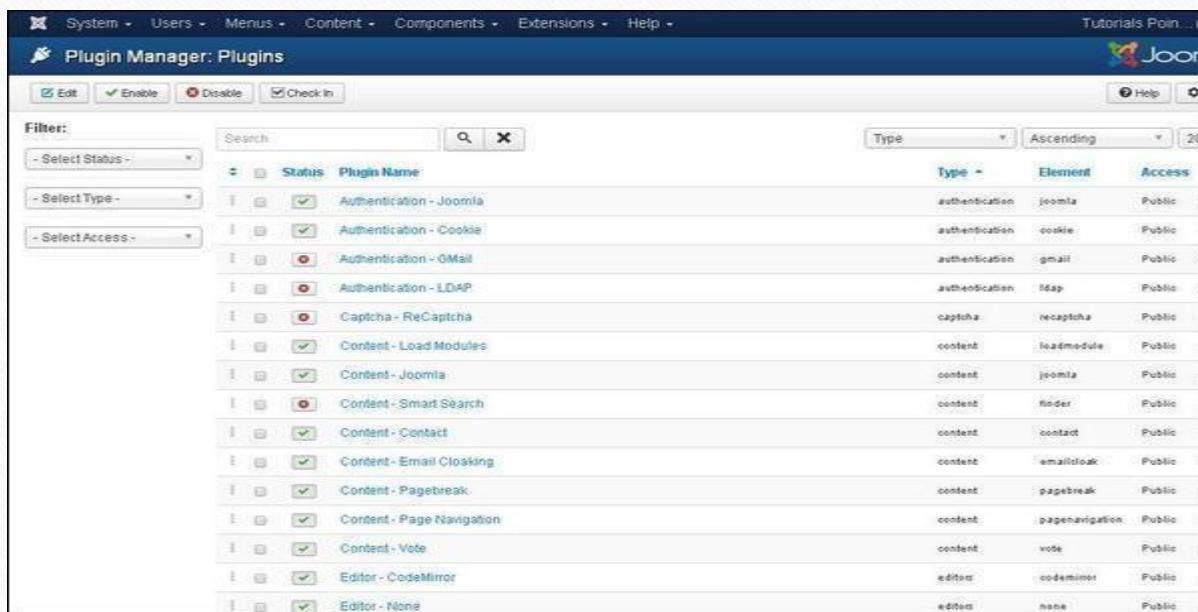
# Joomla Plugin Manager

- Following are the simple steps to set or edit existing Joomla Plugins –
- **Step 1** – Click on **Extension → Plugin Manager** in Joomla administrator as shown below.



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- **Step 2 –** After clicking on the **Plugin Manager**, an existing Joomla plugins will be displayed as shown below.



The screenshot shows the Joomla Admin Panel's "Plugin Manager: Plugins" page. The interface includes a top navigation bar with links like System, Users, Menus, Content, Components, Extensions, and Help. Below the navigation is a toolbar with buttons for Edit, Enable, Disable, and Check In. On the left, there are filter dropdowns for Status, Type, and Access. A search bar is located above the main list. The main area displays a table of installed plugins, each with a checkbox, a status icon, a plugin name, its type, element, and access level. The table is sorted by Type in ascending order with 20 items visible.

Type	Element	Access
authentication	joomla	Public
authentication	cookie	Public
authentication	gmail	Public
authentication	ldap	Public
captcha	recaptcha	Public
content	loadmodule	Public
content	joomla	Public
content	finder	Public
content	contact	Public
content	emailcloak	Public
content	pagebreak	Public
content	pagenavigation	Public
content	vote	Public
editor	codemirror	Public
editor	none	Public

# Toolbar

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- Following are the toolbar options in the Plugin –
- **Edit** – Edit the plug-in.
- **Enable** – Enable the plug-in to use on the website.
- **Disable** – Disable the plug-in which are not necessary on the website.
- **Check In** – Used to check in the plug-in and after completing the process displays the successful message.

# Installing an extension

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- The procedure will be:
  1. Download the extension to your local machine as a zip file package.
  2. From the backend of your Joomla site (administration) select Extensions → Install/Uninstall.
  3. Click the Browse button and select the extension package on your local machine.
  4. Click the Upload File & Install button.
  5. Some extensions may provide further instructions on installation.
  6. Note that modules and plugins must be enabled before they will work.

# Manual Installation

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- First, unzip all of the files in a local directory (for instance com\_installer ).
- Then transfer the directory (using FTP) to a folder under the install directory (for instance administrator/components).
- appropriate for the type of extension you are installing (visible in its xml file, a line like <extension type="component“ .
- Then use the installer, but select "install from directory" indicating the correct folder name.
- This folder name should be an absolute path from the root of the filesystem.

# Editing a Plugins Parameters

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- Many plugins have parameters that allows you to customise their functionality without having to edit any code. We'll investigate some of these features. Navigate to the plugin manager by going to "**Extensions**" in the menu in the backend of Joomla. Then click on "**Plugin Manager**". You will now see a list of all plugins available on your site. To see the full information on what you can do on this screen click on the "Help" button.

# EXAMPLE : The Page Navigation Plugin

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- In this case we will visit the "Content - Page Navigation" plugin. This particular plugin will allow you to add a Table of Contents (TOC) format to articles created in the content component if desired. By clicking on basic options you can see there are two parameters for this plugin. One chooses whether the 'contents' table is displayed above or below the main body of text, whilst the second lets you choose whether the position is above the title and other information for the article (Full Display) just above the start of the main body of text (Text).
- Here all we have is two simple dropdown selections. Which we can select and then press "Save" in the toolbar to save the configuration

# JOOMLA VS WORDPRESS

## JOOMLA

- Joomla CMS is an excellent content management system allowing easy management and maintenance of your website, with little or no programming knowledge needed.
- Adding or removing post dates, need not to be changed in design mode because menus are controlled via the control panel and attributes like dates, author name etc, can be turned on and off per article or for the whole site in one go.
- Joomla will handle membership functionality. If we want members to access your videos on a subscription basis and have members in various levels of permission (depending on their subscription level), Joomla is your best bet.

## WORDPRESS

- The WordPress content management system is an ideal platform for bloggers as it is easy to install and use.
- Adding or removing post dates, need to be changed in design mode and it requires knowledge of WP scripting.
- You can add membership functionality in WordPress.

# REFERENCES

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- <https://pbwebdev.com/blog/google-analytics-plugin-for-joomla>
- <https://www.joomlashine.com/blog/install-google-analytics-in-joomla.html#:~:text=Asynchronous%20Google%20Analytics&text=Step%201%3A%20Download%20the%20plugin,when%20getting%20GA%20tracking%20code.>
- [https://docs.joomla.org/Administration\\_of\\_a\\_Plugin\\_in\\_Joomla](https://docs.joomla.org/Administration_of_a_Plugin_in_Joomla).
- <https://websitesetup.org/build-website-with-joomla/>

# Question Bank

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- Q1) What is Joomla plugin ?
- Q2) Explain google analytics plugin ?
- Q3) Distinguish between Joomla and WordPress ?
- Q4) What are Steps of asynchronous google analytics plugin Joomla ?
- Q5) What are extension libraries in Joomla ?
- Q6) Write steps of installation on Joomla extension ?
- Q7) Explain some examples of Joomla plugin ?

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THANK YOU