

# Web Programming

YJ – Aug 2015

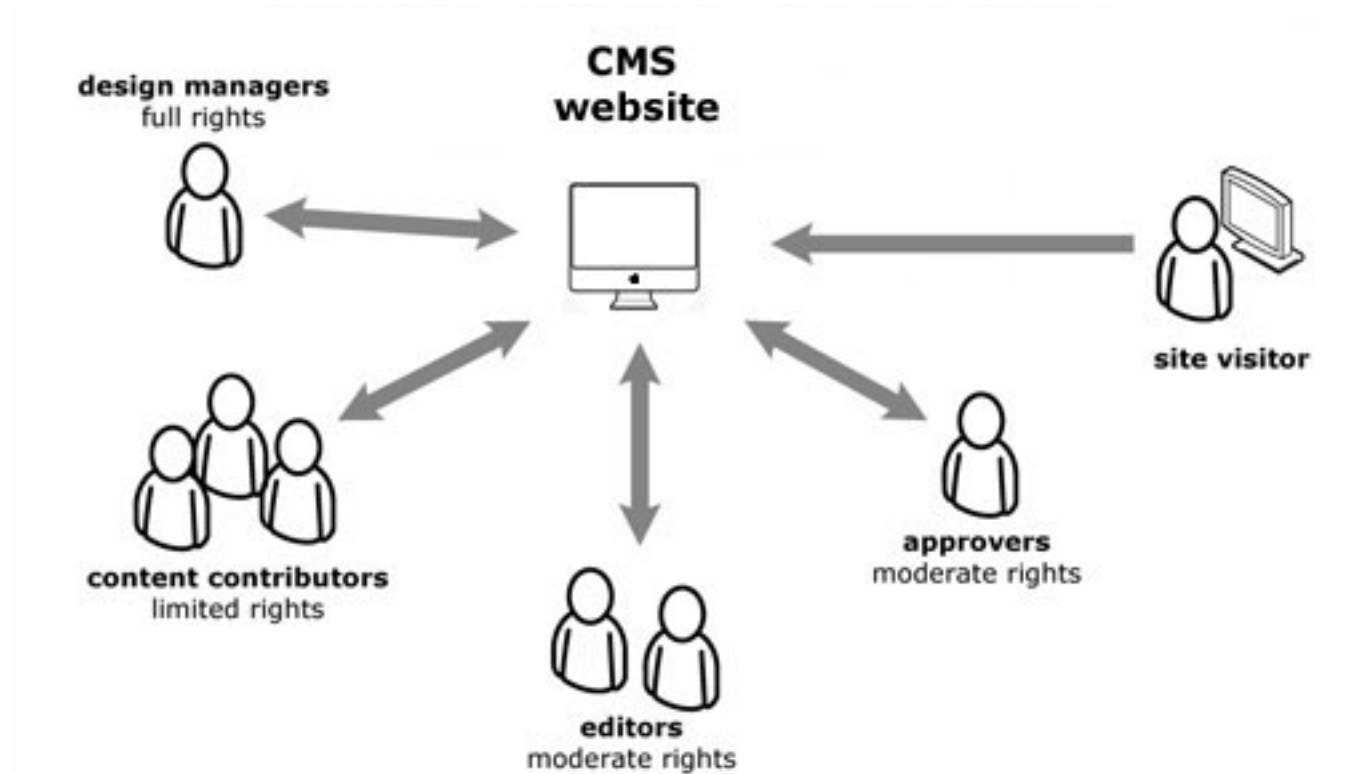
# Content Management System

- ❖ A content management system (Web Content Management System) is a bundled or stand-alone application to create, deploy, manage and store content on Web pages.
- ❖ CMS provides website authoring, collaboration, and administration tools designed to allow users with little knowledge of web programming languages or markup languages to create and manage website content with relative ease.
- ❖ Web content includes text and embedded graphics, photos, video, audio, and code (e.g., for applications) that displays content or interacts with the user.

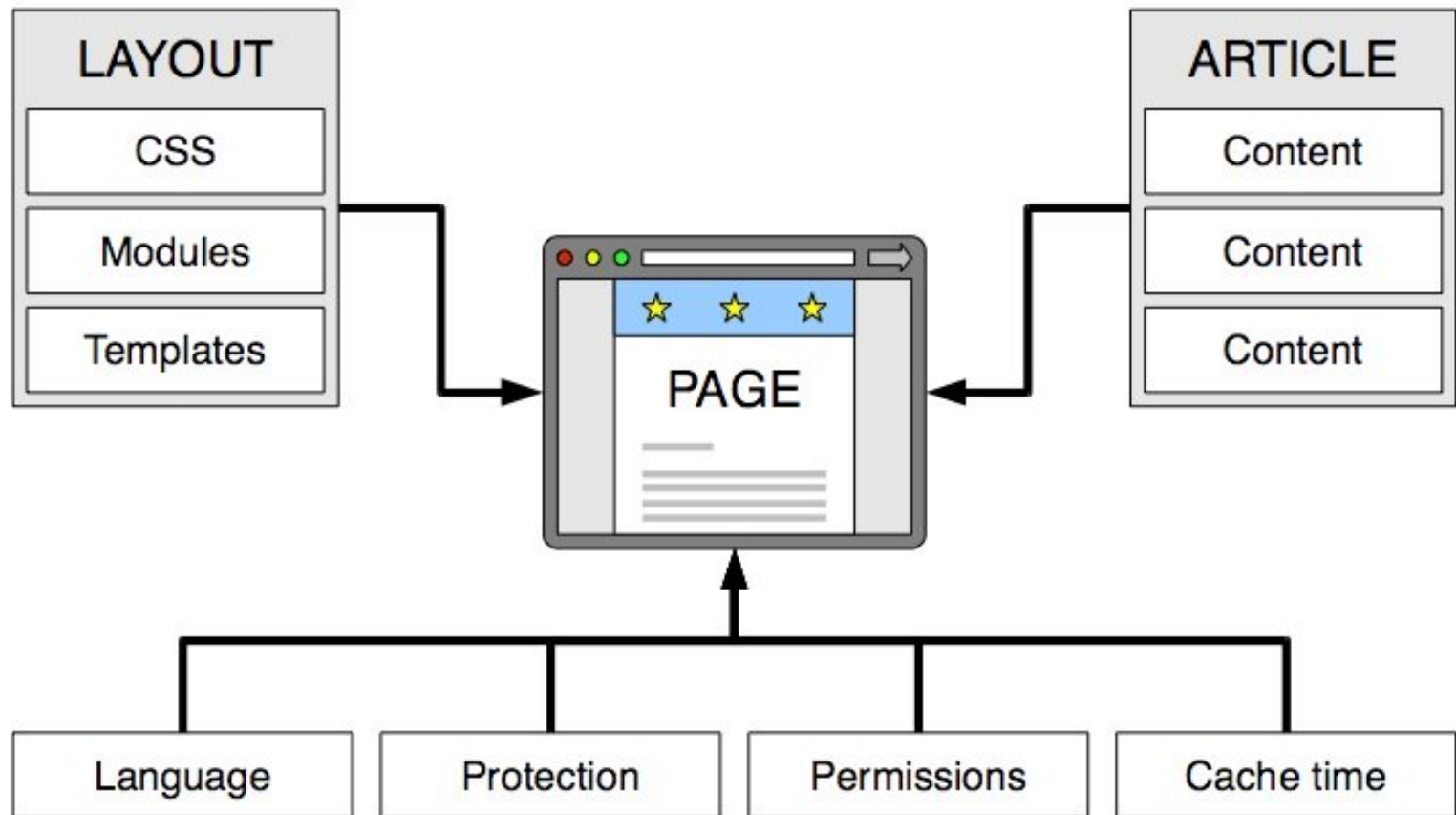
# Content Management System



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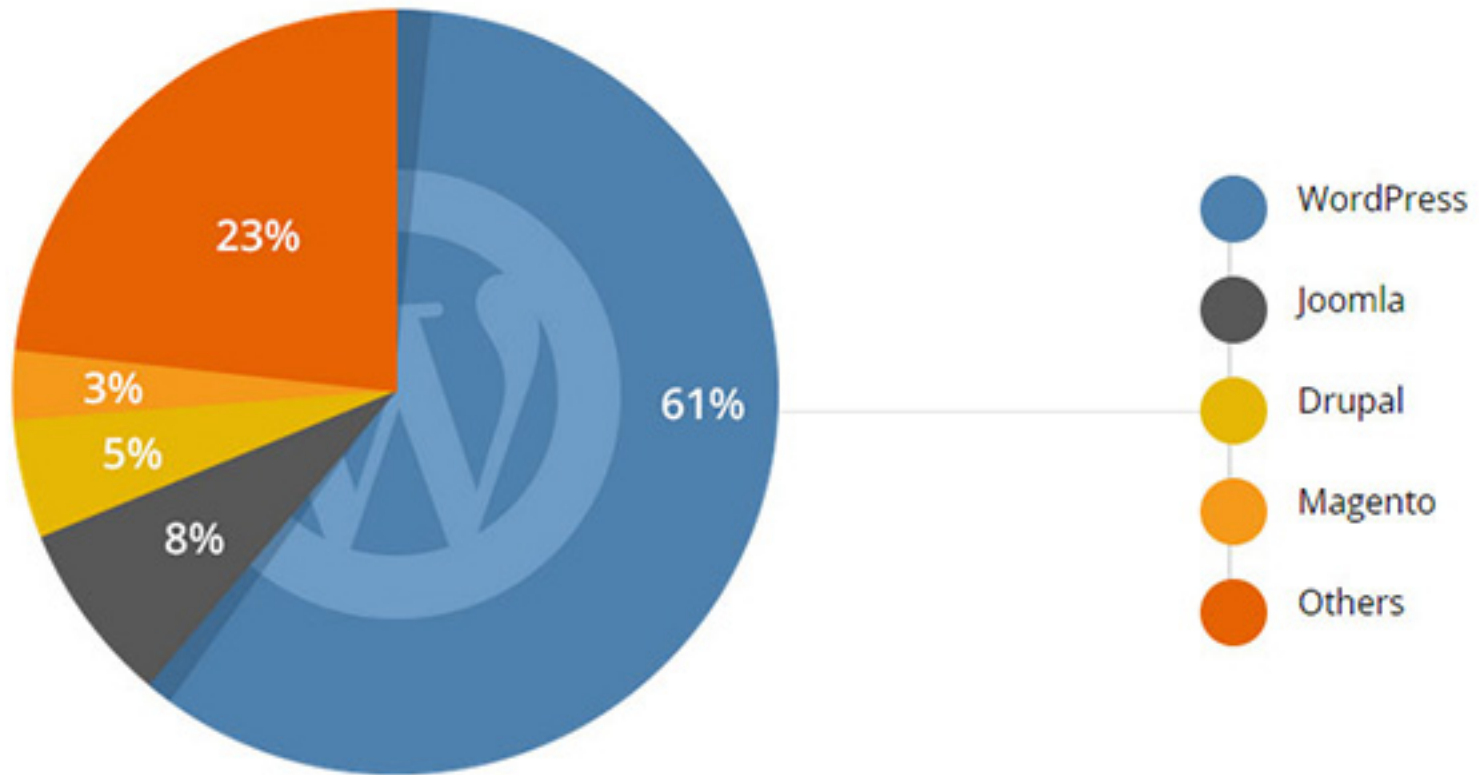
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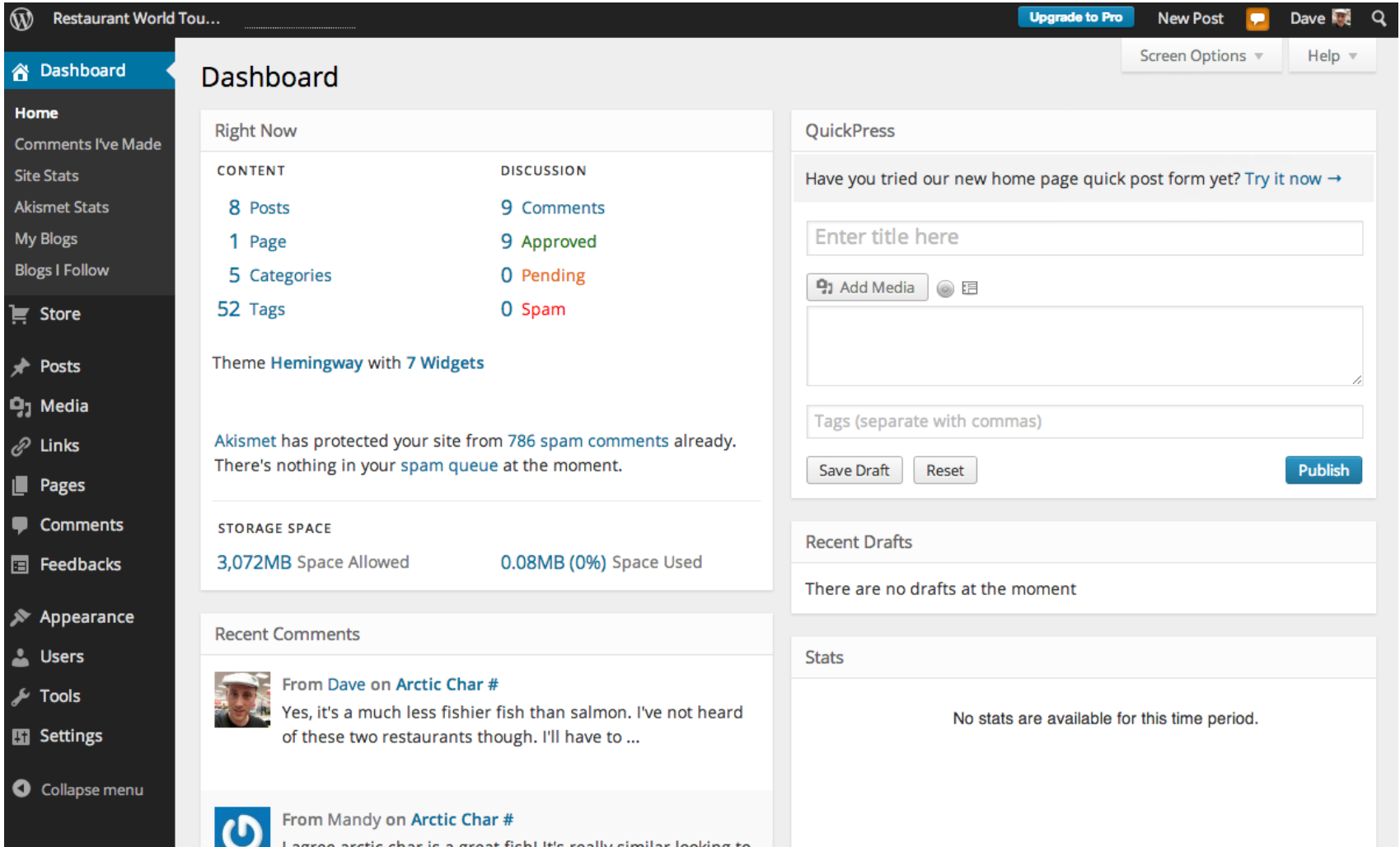


# WordPress

- ❖ WordPress is a completely free tool (based on PHP and MySQL) used to create dynamic websites. Originally, WordPress was developed as blogging software. In recent times, since WordPress is so robust everyone from web developers to average computer users have used it to build beautiful websites.
- ❖ WordPress was used by more than 23.3% of the top 10 million websites as of January 2015. WordPress is the most popular blogging system in use on the Web, at more than 60 million websites.



# WordPress



The screenshot shows the WordPress dashboard for a site named "Restaurant World Tou...". The interface includes a top navigation bar with links for "Upgrade to Pro", "New Post", a user profile for "Dave", and a search icon. A left sidebar contains a menu with options like "Dashboard", "Home", "Comments I've Made", "Site Stats", "Akismet Stats", "My Blogs", "Blogs I Follow", "Store", "Posts", "Media", "Links", "Pages", "Comments", "Feedbacks", "Appearance", "Users", "Tools", "Settings", and a "Collapse menu" button. The main content area is titled "Dashboard" and features several widgets. The "Right Now" widget displays statistics for content (8 Posts, 1 Page, 5 Categories, 52 Tags) and discussion (9 Comments, 9 Approved, 0 Pending, 0 Spam). It also mentions the theme "Hemingway with 7 Widgets" and a message from Akismet stating that 786 spam comments have been protected. The "Storage Space" widget shows 3,072MB of space allowed and 0.08MB (0%) used. The "Recent Comments" widget lists two comments: one from Dave on "Arctic Char #" and another from Mandy on "Arctic Char #". The "QuickPress" widget provides a form for quickly creating a new post, including fields for title, content, tags, and buttons for "Add Media", "Save Draft", "Reset", and "Publish". The "Recent Drafts" widget indicates that there are no drafts at the moment. The "Stats" widget shows that no stats are available for the current time period.

Restaurant World Tou... Upgrade to Pro New Post Dave Search

Dashboard Screen Options Help

**Right Now**

CONTENT	DISCUSSION
8 Posts	9 Comments
1 Page	9 Approved
5 Categories	0 Pending
52 Tags	0 Spam

Theme **Hemingway** with 7 Widgets

Akismet has protected your site from 786 spam comments already. There's nothing in your spam queue at the moment.

**STORAGE SPACE**

3,072MB Space Allowed	0.08MB (0%) Space Used
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**Recent Comments**

- From Dave on Arctic Char #  
Yes, it's a much less fishier fish than salmon. I've not heard of these two restaurants though. I'll have to ...
- From Mandy on Arctic Char #  
I agree arctic char is a great fish! It's really similar looking to

**QuickPress**

Have you tried our new home page quick post form yet? [Try it now](#) →

Enter title here

Add Media

Tags (separate with commas)

Save Draft Reset Publish

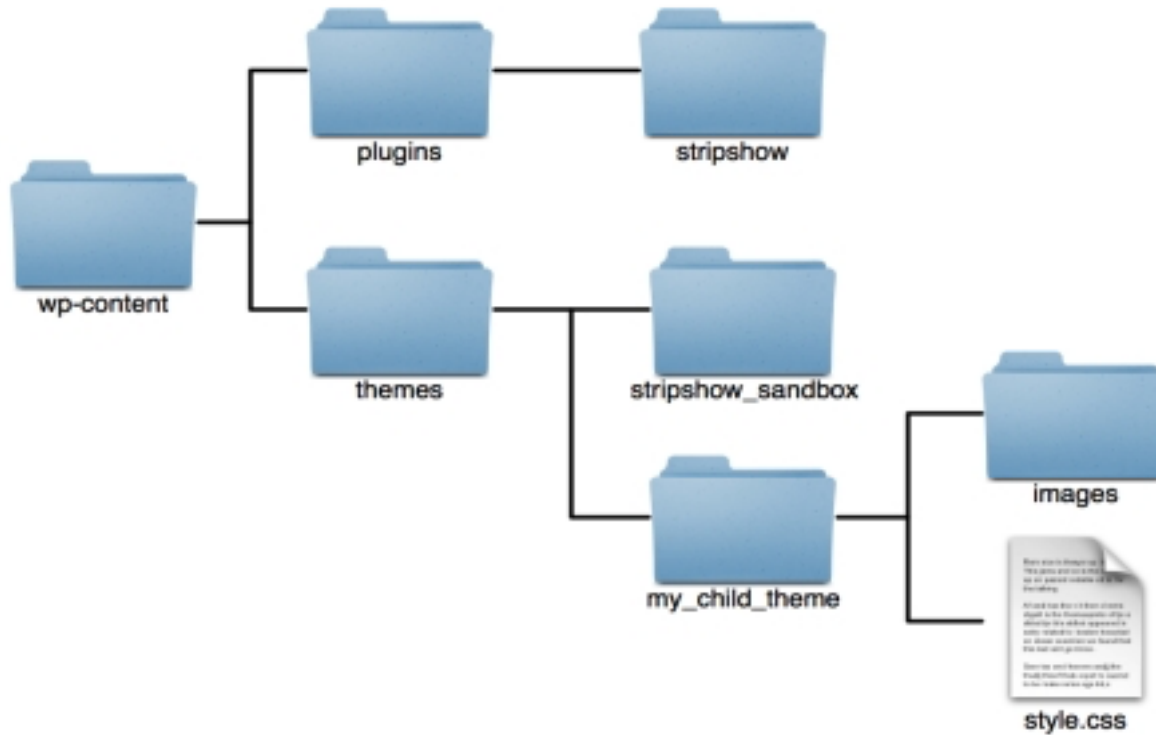
**Recent Drafts**

There are no drafts at the moment

**Stats**

No stats are available for this time period.

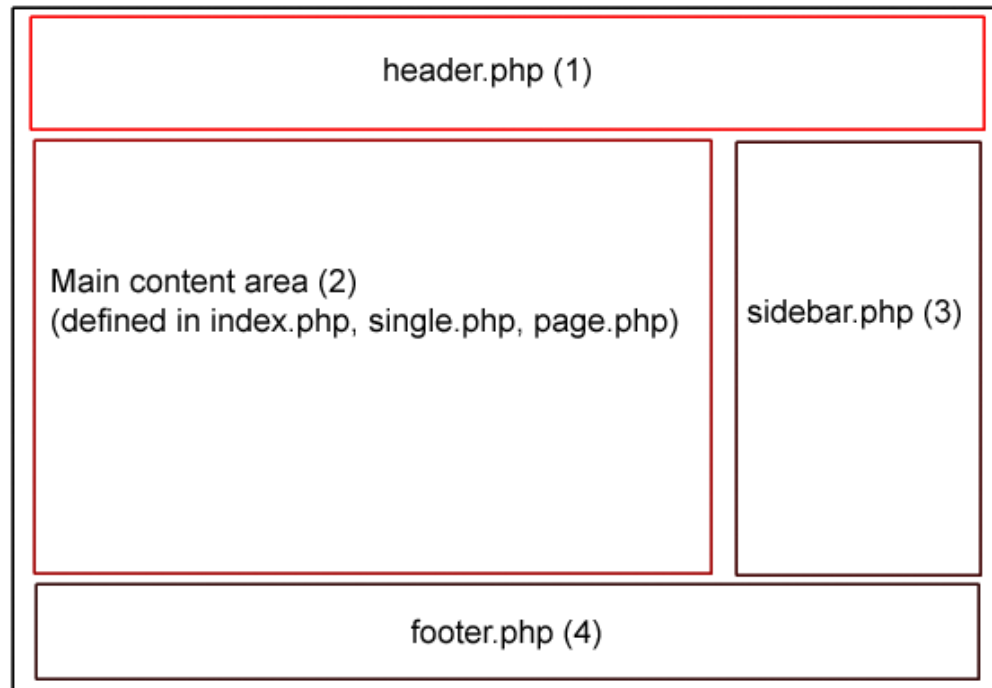
# WordPress



# WordPress

## ❖ Themes

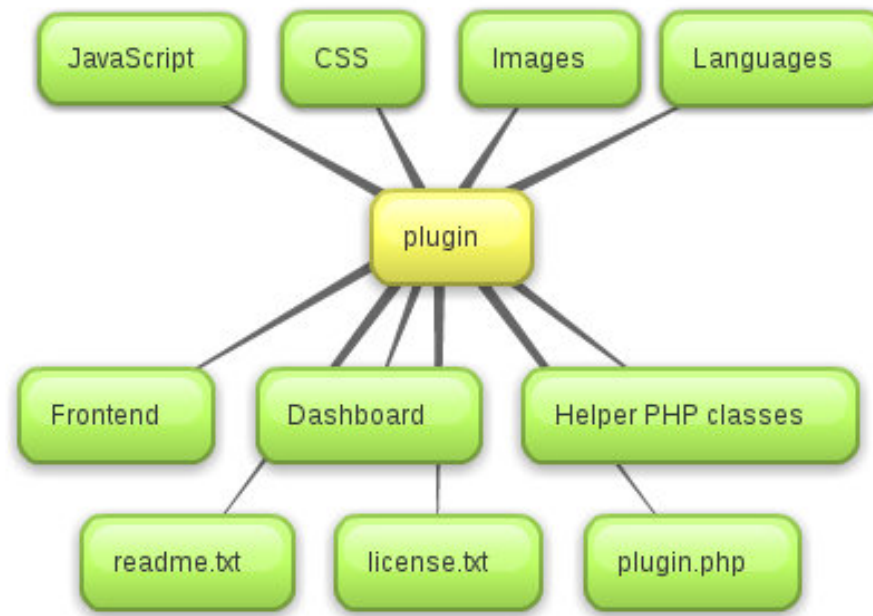
- > WordPress users may install and switch between themes.
- > Themes allow users to change the look and functionality of a WordPress website and they can be installed without altering the content or health of the site.
- > Every WordPress website requires at least one theme to be present and every theme should be designed using WordPress standards with structured PHP, valid HTML and CSS.



# WordPress

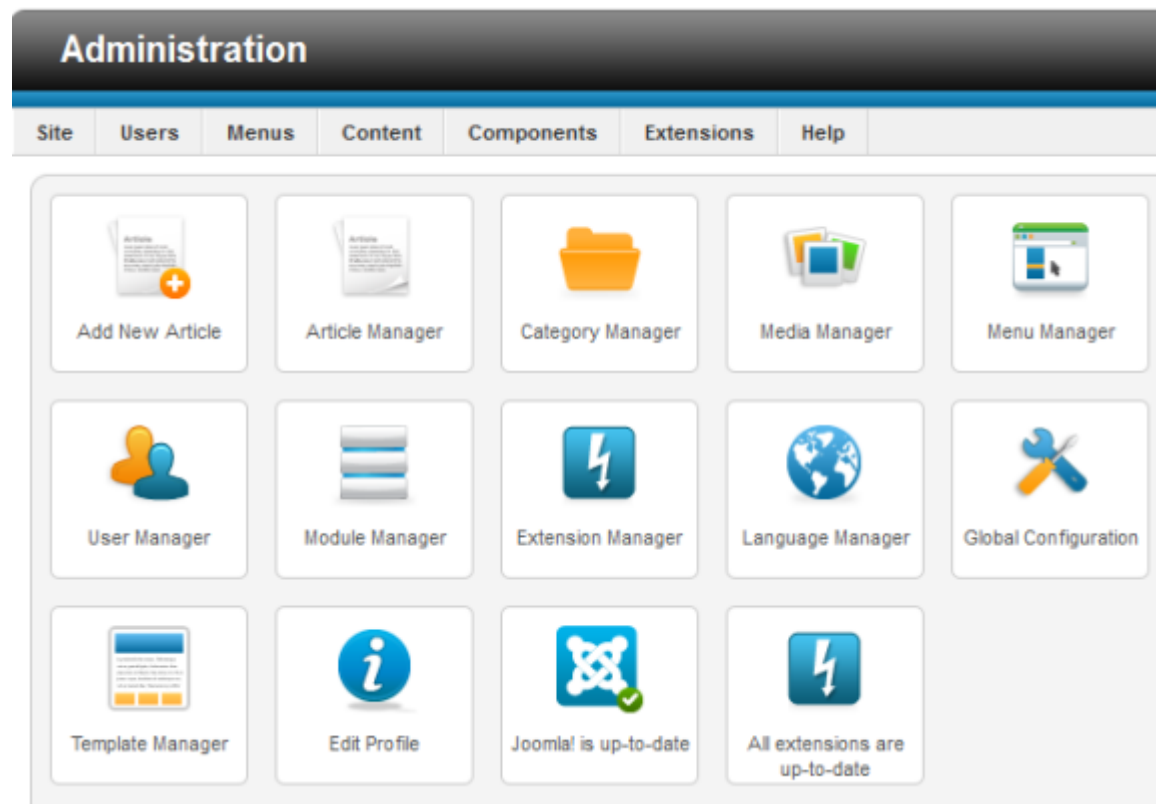
## ❖ Plugins

- > WordPress's plugin architecture allows users to extend the features and functionality of a website or blog. WordPress has huge amount of plugins, each of which offers custom functions and features enabling users to tailor their sites to their specific needs.
- > These customizations range from search engine optimization, to client portals used to display private information to logged in users, to content displaying features, such as the addition of widgets and navigation bars.

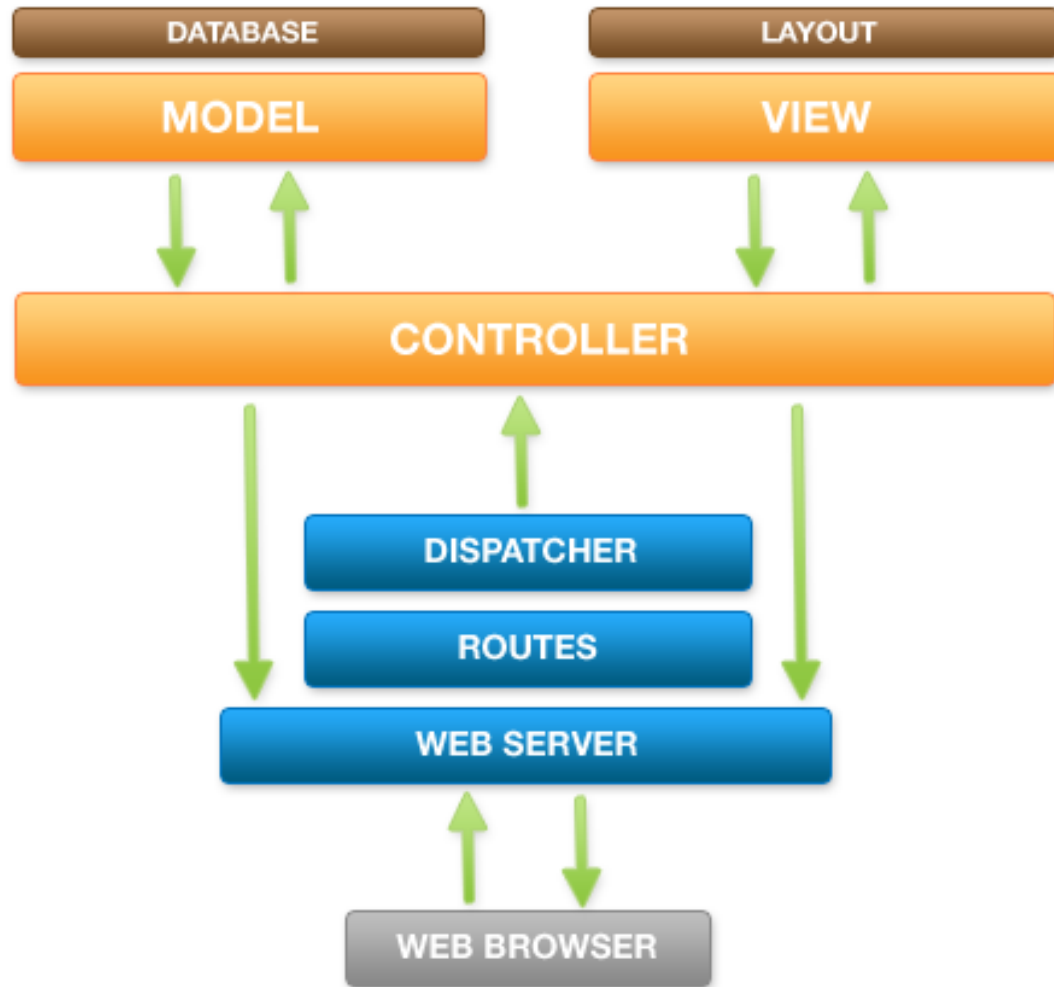


# Joomla

- ❖ Joomla is written in PHP, uses object-oriented programming (OOP) techniques and software design patterns stores data in a MySQL, MS SQL , or PostgreSQL database, and includes features such as page caching, RSS feeds, printable versions of pages, news flashes, blogs, search, and support for language internationalization.



# Joomla



# Joomla

## ❖ Extensions

- 1. Components** are the largest and most complex extensions. Most components have two parts: **a site part** and **an administrator part**. Every time a Joomla page loads, one component is called to render the main page body. Components produce the major portion of a page because a component is driven by a menu item.
- 2. Plugins** are advanced extensions and are, in essence, event handlers. In the execution of any part of Joomla, a module or a component, an event may be triggered. When an event is triggered, plugins that are registered to handle that event execute.  
For example, a plugin could be used to block user-submitted articles and filter text.

# Joomla

## ❖ Extensions

3. **Templates** describe the main design of a Joomla website. While the CMS manages the website content, templates determine the style or look and feel and layout of a site.
4. **Modules** render pages in Joomla. They are linked to Joomla components to display new content or images. Joomla modules look like boxes, such as the search or login module. However, they don't require html in Joomla to work.
5. **Languages** are very simple extensions that can either be used as a core part or as an extension. Language and font information can also be used for PDF or PSD to Joomla conversions.

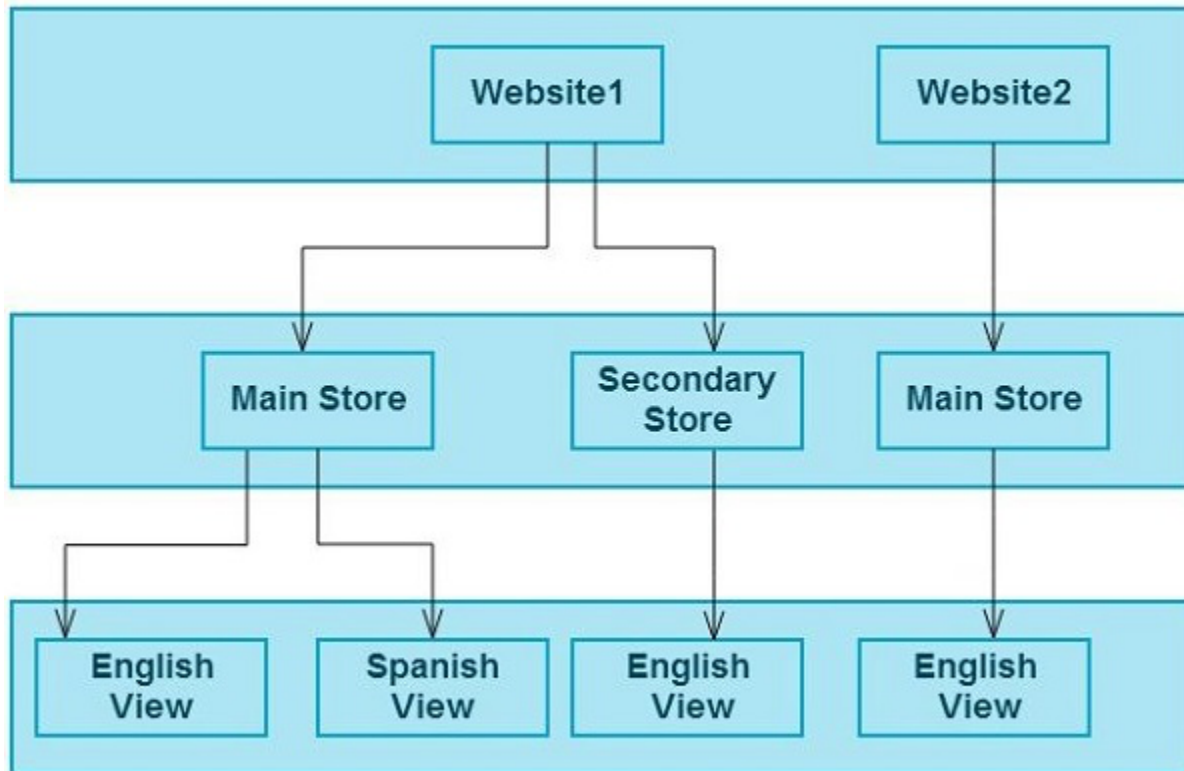


# Magento

- ❖ Magento is an open source application that is build upon Zend Framework.
- ❖ Magento was originally designed to give businesses a platform on which they could provide an online solution for their commercial aspirations while also providing a highly extensive “Back Office” to administer the site from site design to product and order management.
- ❖ There are two versions of Magento:
  1. Community version
  2. Enterprise edition version

# Magento

Multiple Website, Multiple Store Views



# Magento

## ❖ Theme

### 1. **The Template Directory** contains layout, template.

**The Layout** directory contains theXML files which are use to create the basic block structure of themes.

**The Template** directory contains all the PHTML (PHP + HTML) files which are use to create the actual HTML of themes. Template files also allows PHP code so that we may create dynamic HTML pages

**The Locale** directory contains CSV files which are mainly used for storing multiple languages related strings to support multiple languages to store.

### 2. **The Skin Directory** contains CSS, JavaScript, and images.

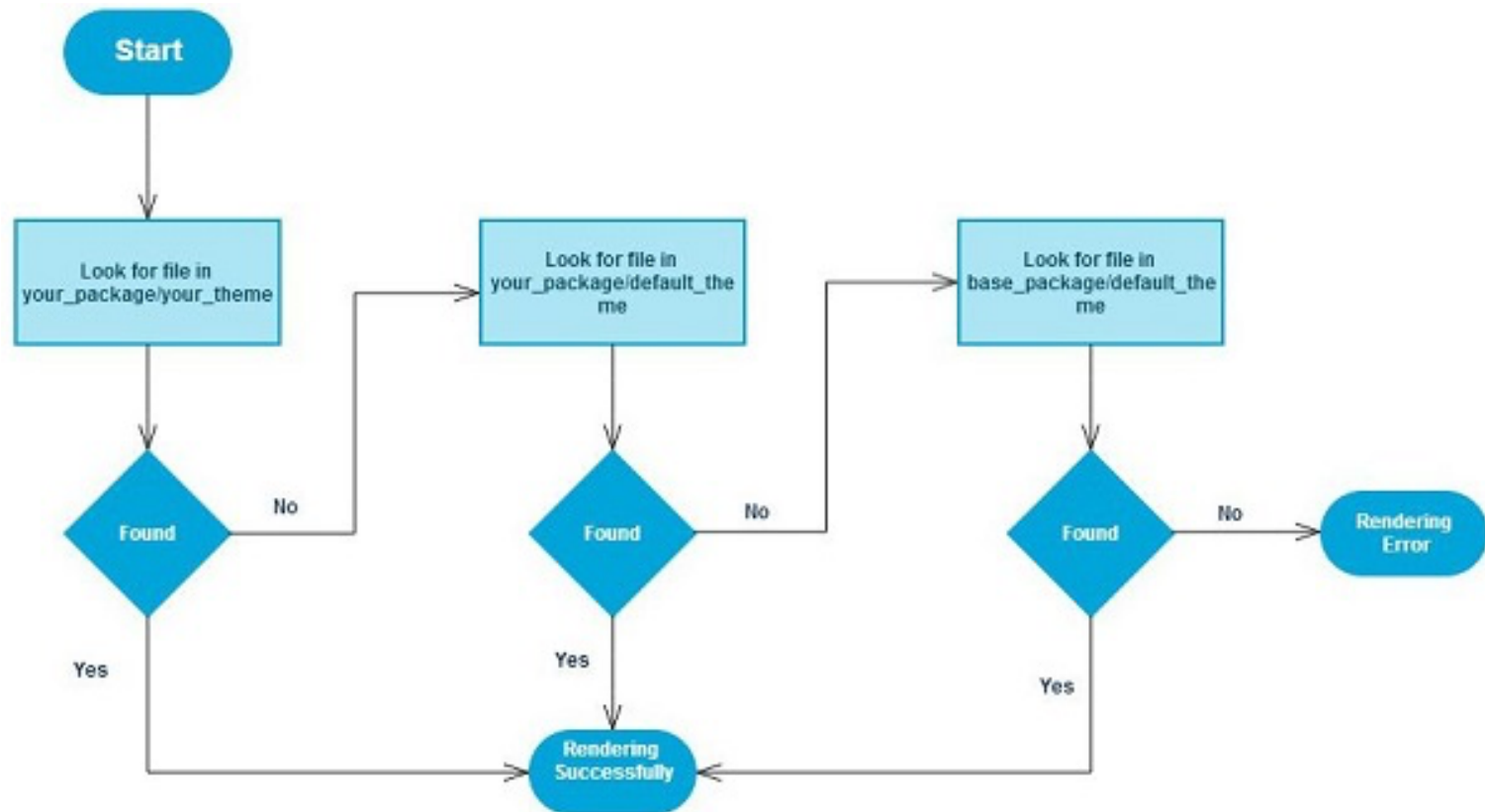
**CSS** contains all css files related to that particular theme.

**JS** contains all js files related to that particular theme.

**Images** contains all images related to particular theme.

# Magento

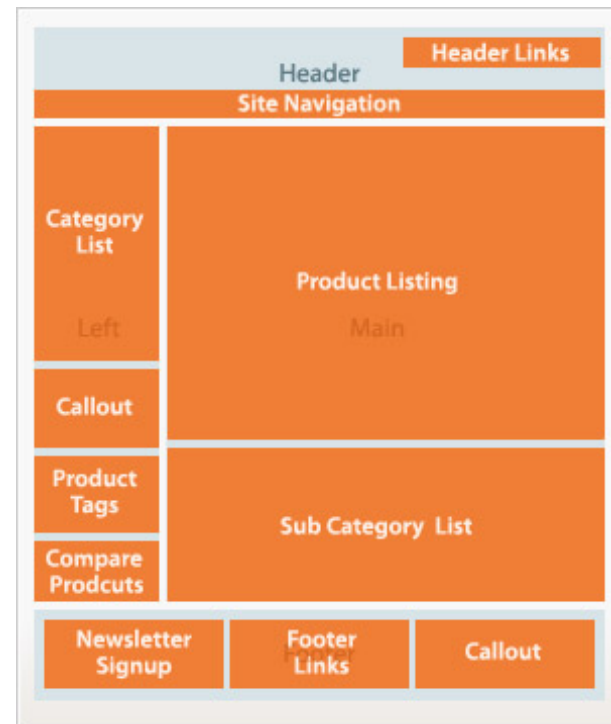
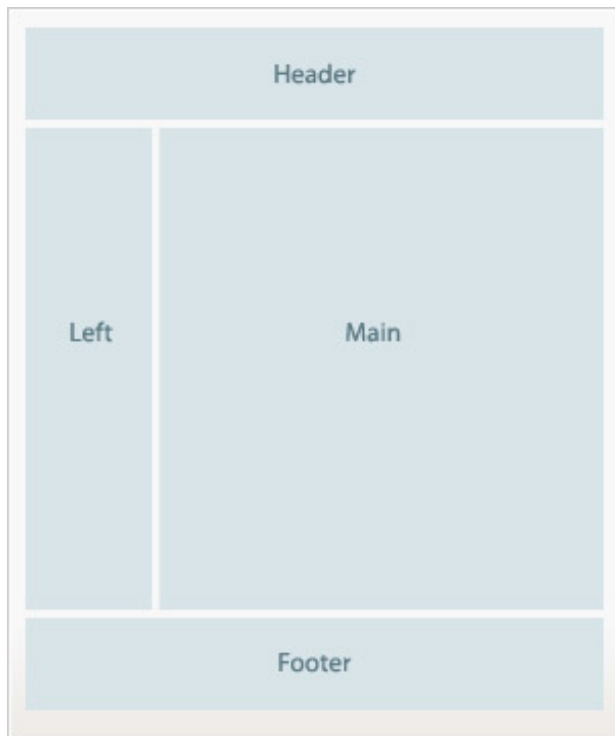
## Theme Fallback System



# Magento








Layouts are the XML files that map your page with structural blocks and content blocks. Each layout file contains the tags, through which you can control particular blocks.

Each Magento module has separate layout files so you can easily manage the module specific layouts.



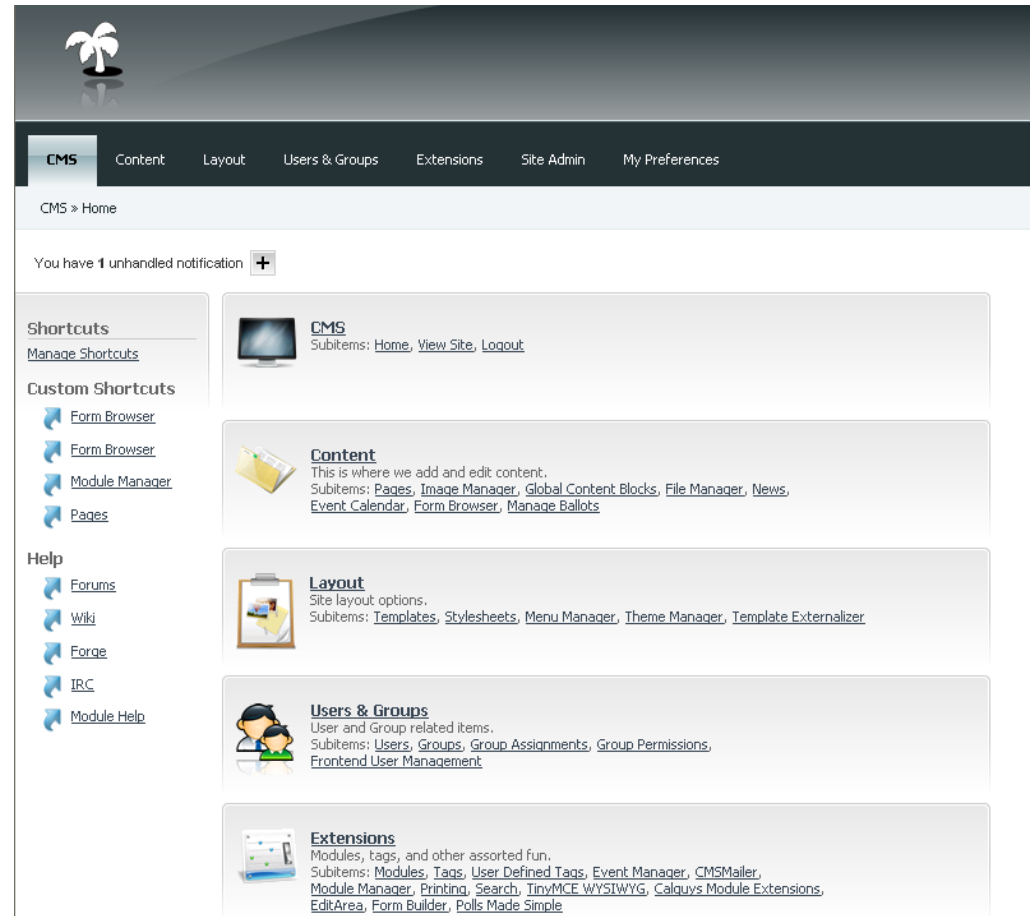
# Opencart

- ❖ OpenCart is a turn-key ready "out of the box" shopping cart solution. You simply install, select your template, add products and you're ready to start accepting orders.
- ❖ It has order management and multiple payment gateways already built in and we provide lifetime free support and free software updates.

Dashboard	Catalog	Extensions	Sales	System	Reports	Help	Store Front	Logout
Home > Products								
<div>Products</div> <div>Insert Copy Delete</div>								
<input type="checkbox"/>	Image	Product Name ▲	Model	Price	Quantity	Status	Action	
		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Filter"/>	
<input type="checkbox"/>		Apple Cinema 30"	Product 15	400.0000 90.0000	934	Enabled	<a href="#">[ Edit ]</a>	
<input type="checkbox"/>		Canon EOS 5D	Product 3	400.0000 80.0000	0	Enabled	<a href="#">[ Edit ]</a>	
<input type="checkbox"/>		HP LP3065	Product 21	100.0000	1000	Enabled	<a href="#">[ Edit ]</a>	
<input type="checkbox"/>		HTC Touch HD	Product 1	100.0000	752	Enabled	<a href="#">[ Edit ]</a>	
<input type="checkbox"/>		MacBook	Product 16	500.0000	845	Enabled	<a href="#">[ Edit ]</a>	
<input type="checkbox"/>		MacBook Air	Product 17	1000.0000	993	Enabled	<a href="#">[ Edit ]</a>	
<input type="checkbox"/>		MacBook Pro	Product 18	2000.0000	998	Enabled	<a href="#">[ Edit ]</a>	

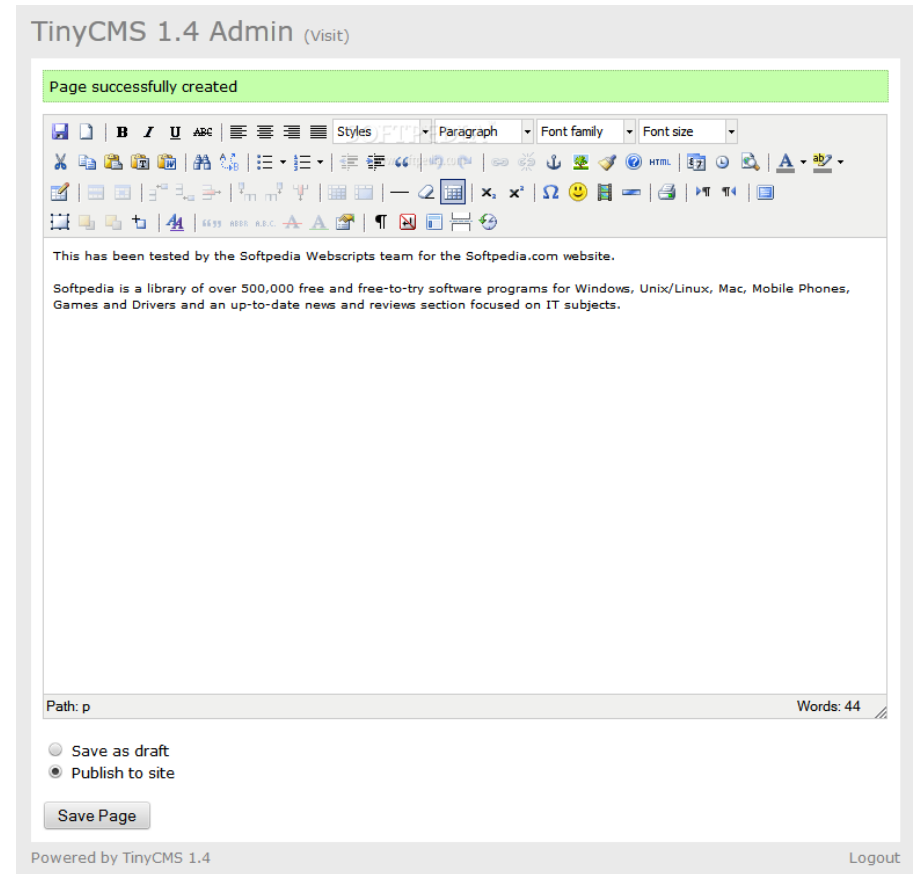
# CMS Made Simple

- ❖ CMS Made Simple aims to provide easy development and customization with themes, add-on modules, dynamic menus, tags and translations. When developing a new feature, the tab opens full of default text.
- ❖ The developer starts by erasing the bits he doesn't need, and then adding further tags that link to plugins, known here as modules.



# TinyCMS

- ❖ **Made for web-designers**, the TinyCMS suite is easy to install and easy to extend.
- ❖ TinyCMS does not use data-bases, it's storage mechanism are simple text files. This makes it very fast and very web hosting resource friendly.
- ❖ You have an easy to use administrator interface and a single html file that you can edit as you wish to completely change the way your website looks.
- ❖ TinyCMS is not a platform that supports thousands of pages, not because it can't do it but because it would use too many files and resources to be called "tiny".





# Concrete 5

- ❖ Most of the work you'll need to do with concrete5 happens right on the pages you want to edit. This "In-Context Editing" is very intuitive.
- ❖ For more administrative duties (like adding users, customizing themes, getting reporting data, etc) there is a more traditional Dashboard.

