

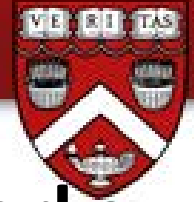
Introduction to Web Content Management Systems Site Development - DGMD E-25

Week 2: Installing and Configuring Joomla

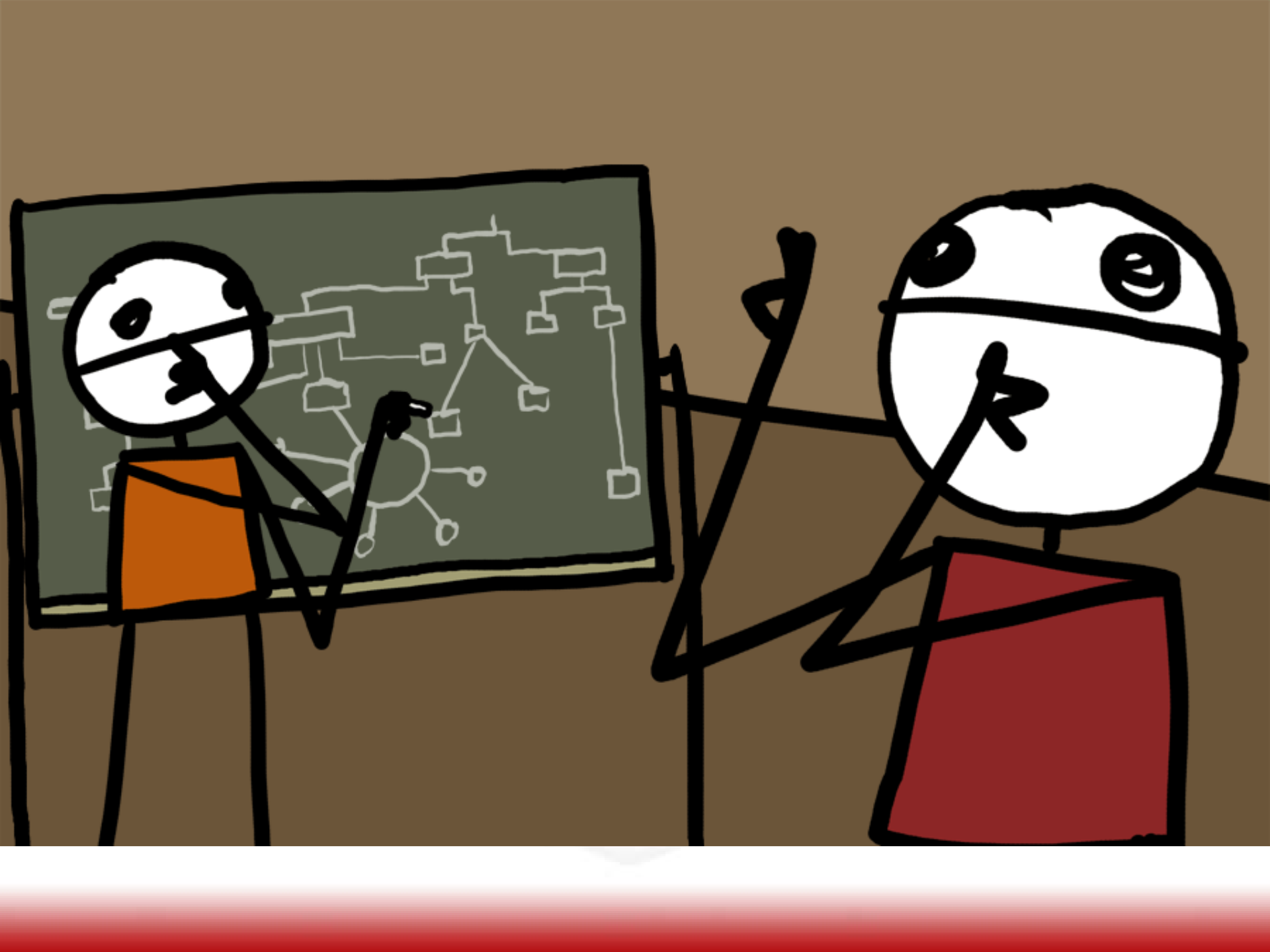


Professor Jen Kramer

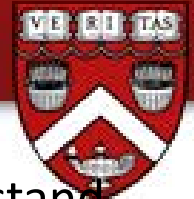
Agenda



- **CMS terminology, including how it all works together (powerpoint)**
- **Installing Joomla on SiteGround**
- **Tour of Joomla and getting content into the system**
- **JCE (the Joomla Content Editor), images, video**
- **Backups!!!!**

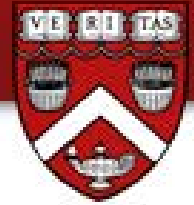


CMS: Content Management System



- A web content management system^[5] (web CMS) is a bundled or stand-alone application to create, manage, store and deploy content on Web pages.
- Web content includes text and embedded graphics, photos, video, audio, and code (e.g., for applications) that displays content or interacts with the user. A web CMS may catalog and index content, select or assemble content at runtime, or deliver content to specific visitors in a requested way, such as other languages.
- Web CMSs usually allow client control over HTML-based content, files, documents, and web hosting plans based on the system depth and the niche it serves.
- http://en.wikipedia.org/wiki/Content_management_system#Web_content_management_system

Static HTML vs. CMS



- **Static HTML: a series of individual documents**
 - ◆ HTML, CSS, JavaScript files all linked together
 - ◆ Want a nav change? Change every page on the site.
- **CMS: Look Ma, no pages!**
 - ◆ Every “page” generated on the fly, at the server request.
 - ◆ Pulls together content, theme, navigation, and additional functionality.
 - ◆ Can happen for every request for that “page” or can cache the results for improved performance.
 - ◆ Make one nav change, all “pages” updated immediately

Creating static HTML vs CMS sites



- **Static HTML: editor**
 - ◆ Your editor constructs and helps to link to each page
- **CMS: editors are optional**
 - ◆ Install the software on the server (hardware), then develop the site in your browser: **Chrome or Firefox!!!**

USER FRIENDLY by J.D. "Illiad" Frazer

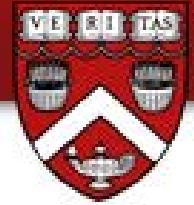


CMS Technologies



- **Middleware: programming language that the CMS is written in**
 - ◆ Joomla, Drupal, WordPress use **PHP**. Other middleware languages include ASP, .NET, ColdFusion, Python, Perl...
- **Database: Holds information for the website**
 - ◆ Joomla, Drupal, WordPress use **MySQL**. Other databases include MS-SQL, PostgreSQL, Oracle, etc. There are also non-relational databases like MongoDB that might be used.
- **You'll also encounter HTML, CSS, JavaScript, and occasionally XML.**

Other important terms



■ Server

- ◆ Hardware: the big computer that holds the website
- ◆ Software: the software that receives and processes requests for web pages. Ex: Apache, IIS

■ Client

- ◆ CMS: The computer that's in front of you.
- ◆ People: The person that hires you to do web work

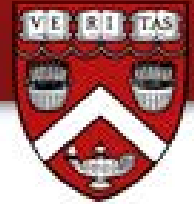
■ Front end

- ◆ The public facing side of the website

■ Back end

- ◆ The administrative side of the website, accessible via login

Web host vs. server



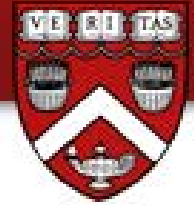
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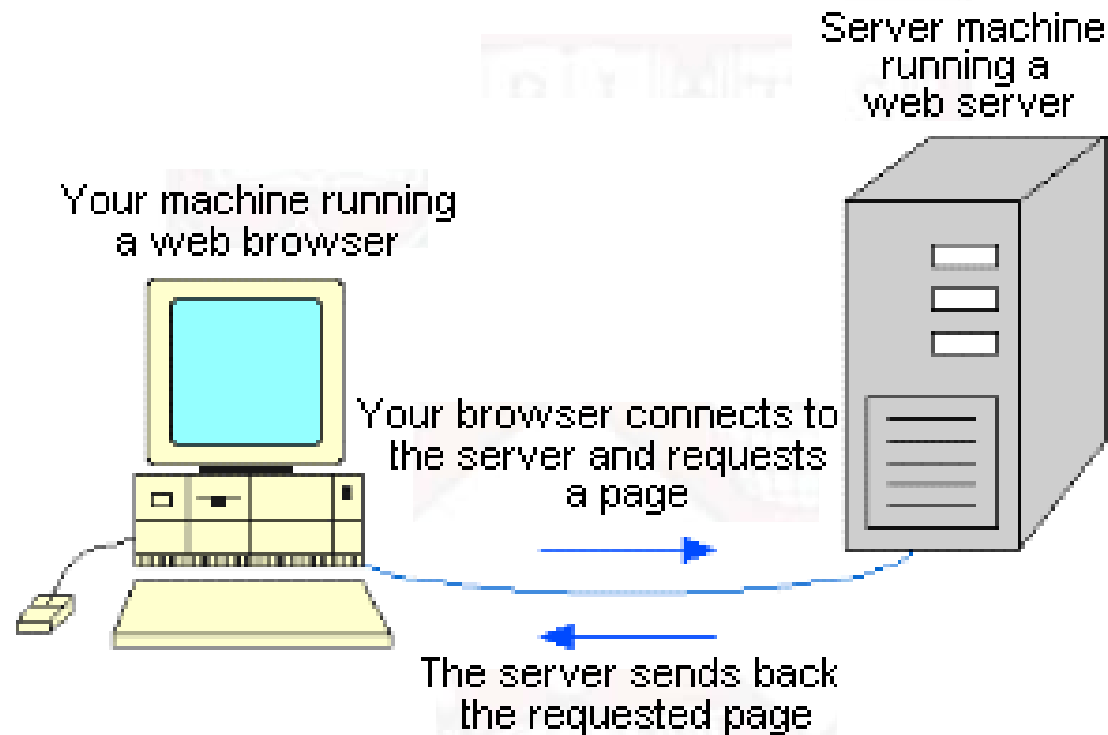
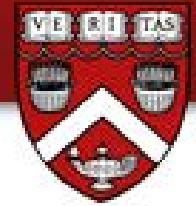
- ◆ A service providing servers (hardware) to the public.
- ◆ Generally provides maintenance and troubleshooting to the servers, keeping the server (software) up to date, helping with issues.
- ◆ SiteGround is offering shared hosting, meaning there are hundreds to thousands of sites on a single server (hardware).

LAMP

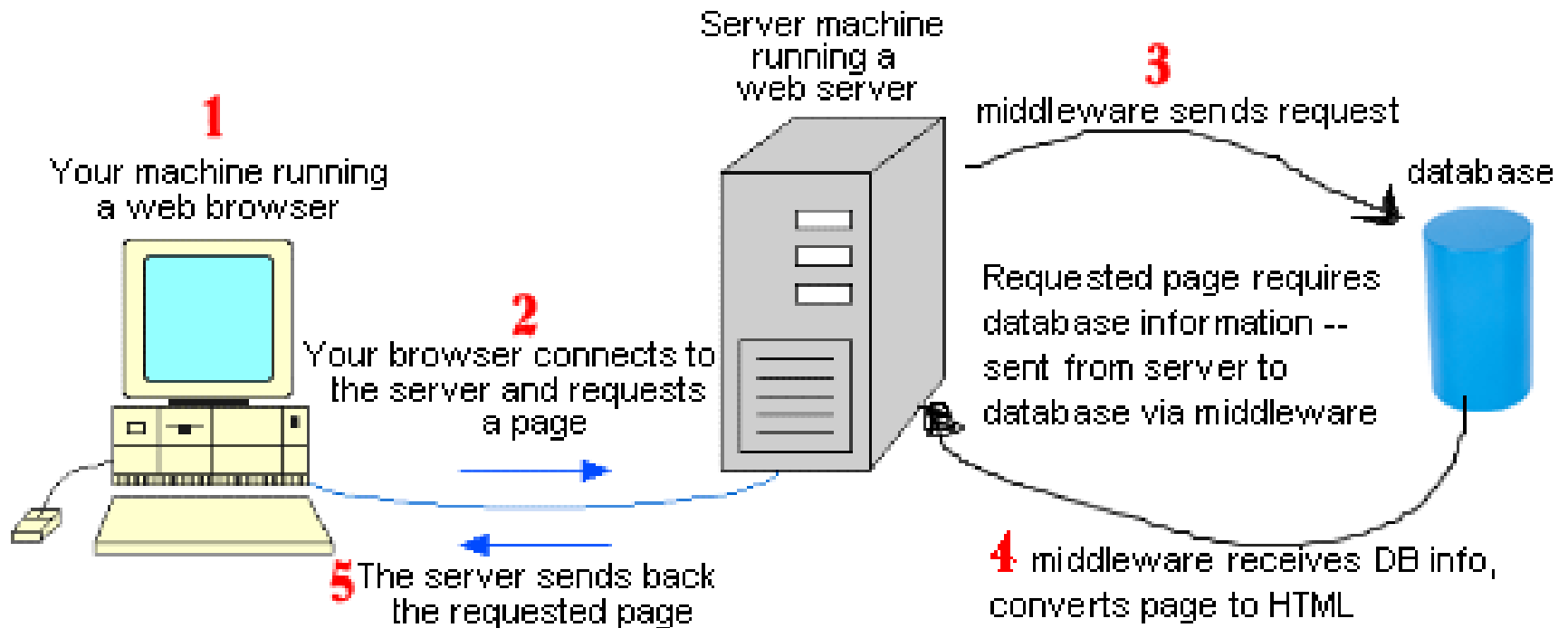
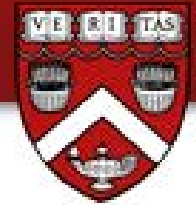


- **Linux**
 - ◆ Open source operating system for the server (hardware).
- **Apache**
 - ◆ Open source server software for running a website.
- **MySQL**
 - ◆ Open source database
- **PHP**
 - ◆ Open source middleware language that works particularly well with HTML and MySQL.

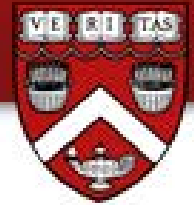
How this works: Static website



CMS site



Backups!!!



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"I ALWAYS BACK UP EVERYTHING."



<http://www.DogTillLaughter.com>