



# Carnegie Mellon University

CMSs,  
Open Source,  
Hosted &  
Cloud-Based Applications

# Content Management Systems

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- Fast, easy, lower cost ways to create and maintain information on the web
- Alternatives to build

# Types of CMSs

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- Portals
- Blogs
- E-commerce
- Intranets / Groupware
- Discussion boards
- Guestbooks
- Mailing lists
- E-learning
- Image galleries
- Wikis
- Calendars
- Customer relationship management (CRM)
- Document workflow management
- Polls and surveys
- Project management

# Architecture of a typical CMS

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- Programming
  - PHP, PERL, Java, VB.NET, ASP.NET, JavaScript
- Database
  - E.g. MySQL, PostgreSQL, Oracle, SQL Server, MongoDB
- Display
  - HTML, Cascading Style Sheets (CSS)
- Content
  - User generated

# CMS Benefits - Features

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- Comes with immediate capabilities, e.g.
  - Calendaring
  - Document management
  - Authentication
  - Membership management
  - And other functions from previous slide
- Easy to install
- Easy to update
- External support can be hired for problems

# CMS Benefits - Sustainability

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Technically simple  
Frequently updated

- Content
  - Updateable by user organization
  - Without requiring HTML skills
- Display
  - Typically have templates to choose from
  - More customized look can be done once
- Programming / Database
  - Updated regularly by vendor, or FOSS community
  - Specialized help can be hired for only these upgrades

Technically harder  
Infrequently updated

# WordPress

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- [pcc.palau.edu](http://pcc.palau.edu)
- [pitt.cisvusa.org](http://pitt.cisvusa.org)
  - Theme from [themeforest.com](http://themeforest.com)
- [sopen.org](http://sopen.org)
- [palaufiu.org](http://palaufiu.org)
- [rmibankingcomm.org](http://rmibankingcomm.org)

# Education example

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- Moodle - deployed by student consultants:
  - (Like Blackboard or Canvas)
  - Local elementary school
  - Cook Islands Ministry of Education



# Commercial CMSs

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- Benefits of Commercial CMS
  - More consistent help-desk support
- E.g. Atlassian Confluence
  - \$\$\$
  - Used by Facebook, Skype, Microsoft, Adobe, and others.
- E.g. Microsoft Sharepoint
  - Full functioned
  - But a confusing and potentially expensive set of requirements

# Levels of hosting service

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- Own server
- Web hosting service
- Application hosting
  - I.e. Software as a Service (SaaS)

# Own server

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- Can run any FOSS or commercial software you like
- Often higher total-cost-of-ownership
- Higher security risk
  - If fall behind with software updates

# Hosting service


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- Low monthly or yearly fees
  - DreamHost.com – free for 501(c)3 orgs
- No server maintenance required
- Install your own applications
  - Requires expert knowledge to update
- With application installation support
  - Update (mostly) works without expert knowledge

# DreamHost 1-Click Installs

 <p>MediaWiki, the software behind Wikipedia, is free collaborative software.</p> <p><a href="#">Wiki, Featured</a></p> <p><b>MediaWiki</b></p>	 <p>WordPress is a free web-based software you can use to create a website or blog.</p> <p><a href="#">Blog, CMS, Featured</a></p> <p><b>WordPress</b></p>	 <p>concrete5 is a website building tool that is simple for site owners to use, and powerful for site developers to work with.</p> <p><a href="#">CMS, Forum</a></p> <p><b>concrete5</b></p>
 <p>dotProject is a web-based Project Management app designed to provide project layout and control functions.</p> <p><a href="#">Project Management, Issue T</a></p> <p><b>dotProject</b></p>	 <p>Gallery is a feature-packed, open-source photo gallery.</p> <p><a href="#">Gallery</a></p> <p><b>Gallery</b></p>	 <p>GetSimple is an XML based lite Content Management System.</p> <p><a href="#">CMS</a></p> <p><b>GetSimple CMS</b></p>
 <p>Joomla! is a free, open-source CMS for publishing content on the internet.</p> <p><a href="#">CMS</a></p> <p><b>Joomla!</b></p>	 <p>MICO is a simple web-based application to assist small companies with tracking inbound calls.</p> <p><a href="#">Other</a></p> <p><b>MICO - Mantis</b></p>	 <p>MODx Evolution has empowered developers and enthusiasts to build websites exactly how they wish since 2005.</p> <p><a href="#">CMS</a></p> <p><b>MODx Evolution</b></p>
 <p>Moodle is an open-source CMS designed to help educators create interactive online courses.</p> <p><a href="#">Other</a></p> <p><b>Moodle</b></p>	 <p>Omeka is a free, flexible, &amp; open source web-publishing platform for museum, library, &amp; archive collections &amp;</p> <p><a href="#">CMS</a></p> <p><b>Omeka</b></p>	 <p>Open Web Analytics (OWA) is open source web analytics software that you can use to track and analyze your web</p> <p><a href="#">Statistics</a></p> <p><b>Open Web Analytics</b></p>
 <p>OpenVBX is a web-based, open source phone system for business.</p> <p><a href="#">VoIP, Communication</a></p> <p><b>OpenVBX</b></p>	 <p>phpBB allows users to create bulletin boards on their site where members can express their hearts out.</p> <p><a href="#">Communication, Forum</a></p> <p><b>phpBB</b></p>	 <p>PhpGedView is a free PHP-based web application for working with genealogy data.</p> <p><a href="#">Other</a></p> <p><b>PhpGedView</b></p>
 <p>Piwigo is an open source photo gallery, customize it with themes and plugins.</p> <p><a href="#">Gallery</a></p> <p><b>Piwigo</b></p>	 <p>Piwik is an open source alternative to Google Analytics.</p> <p><a href="#">Statistics</a></p> <p><b>Piwik</b></p>	 <p>Pligg is an open source content management system designed to mimic the functionality of Digg.</p> <p><a href="#">CMS</a></p> <p><b>Pligg</b></p>

# DreamHost Install WordPress

 **DreamHost** One-Click Installer

**Sample Site**  
Get another WordPress site

Home Sample Page

Hello world!  Search

1 Post

Welcome to WordPress. This is your first post. Edit or delete it, then start blogging!

This entry was posted in Uncategorized on December 11, 2012.

Recent Posts

Hello world!

Recent Comments

Hi WordPress on Hello world!

Archives

December 2012

Categories

Uncategorized

Meta

Log in  
WordPress RSS  
Comments RSS  
WordPress.org

Proudly powered by WordPress

## WordPress

Version: **3.5.1**

Author: WordPress

WordPress is an open source content management system (CMS), often used as a blog publishing application, powered by PHP and MySQL. It has many features including a plug-in architecture and a template system. Used by over 12% of the 1,000,000 biggest websites, WordPress is the most popular CMS in use today.

**Average Rating** ★★★★★ (83 ratings)

Tags: [Blog](#), [CMS](#), [Featured](#)

➡ [DreamHost wiki page](#)  
➡ [Application Support page](#)

**Rate it** ★★★★★

**Custom Installation**

**Custom One-Click Installer**

Install to:  /

**Please be sure there are no files there now**

Select Database:

Deluxe Install ☒ ?

**Install it for me now!**

# Updates within WordPress

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## WordPress Updates

Last checked on February 6, 2013 at 2:16 am.

[Check Again](#)

**Important:** before updating, please [back up your database and files](#). For help with updates, visit the [Updating WordPress](#) Codex page.

### **An updated version of WordPress is available.**

You can update to [WordPress 3.5.1](#) automatically or download the package and install it manually:

[Update Now](#)

[Download 3.5.1](#)

While your site is being updated, it will be in maintenance mode. As soon as your updates are complete, your site will return to normal.

### **Plugins**

The following plugins have new versions available. Check the ones you want to update and then click "Update Plugins".

[Update Plugins](#)

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# SaaS (Application hosting)

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- Often per-user subscription fees
  - May have entry-level free accounts
- No maintenance fees
- No maintenance expertise required
- They support the application



# East Liberty Development Inc.

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- Non-profit Community Development Corporation
- Does real estate development
- Needed a way to coordinate project management while rehabilitating multiple properties
- Used hosted solution Ace Project
  - [aceproject.com](http://aceproject.com)

# SalesForce

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- Hosted Customer Relationship Management (CRM) application
  - I.e.
    - Keeping track of donors
    - Keeping track of clients or constituents
    - Keeping track of members
- Salesforce Foundation
  - Provides free licenses to qualifying U.S. non-profit organizations
  - So no server, no software, no maintenance needed
- Lock-in risk:
  - currently expected to be free forever.
  - All data can be exported as a Comma Separated Value (CSV) file

# G Suite for Nonprofits

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- <http://google.com/nonprofits>
- Features
  - Gmail
  - Google Calendar
  - Google Drive
  - Google Docs / Sheets
  - Google Ads
- Free

# Wix / Squarespace

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- Web site design, editing, and management as a service.
- E.g. [tcingc.org](http://tcingc.org)