

Content Management Systems (CMS)

Dr. Horia V. Corcalciuc
Horia Hulubei National Institute for R&D in Physics and
Nuclear Engineering (IFIN-HH)

April 1, 2016



What is a Content Management System?



- Content Management Systems (CMS) have an easy to use front-end interface that allows users with minimal experience to enter data and a back-end that processes the data and displays it.
- CMS satisfy the property that user-supplied data is not mixed with code such that entering information can be performed separately from the code that delivers the information (counter-examples include: inline PHP, static HTML, etc...).



Properties

- Seamless delivery of structured information following a template.
- Automatic Search Engine Optimisations (SEO).
- Fast entry and removal of data from the website.
- Small footprint.
- Cross-platform / cross-browser compatibility.
- Vendor handles security and reports threats.
- Access Control Lists (ACLs).
- Social network integration.



Comparisons of CMS Platforms

- **WordPress** - meant mainly for *blogging* such as presentation websites, personal websites and geared towards "frequently" posting articles. Used by "Time", "MTV Newsroom", "The Ford Story", etc...
- **Joomla** - the intended audience is **e-commerce** oriented websites such as stores. Used by "Linux.com", "Porsche", "IHop Restaurant", etc...
- **Subdreamer** - geared towards **forums** and small technical websites.
- **Dupal** - enterprise-level **content management system**. Used by "the ONION", "The Economist", "MTV", "the WHITE HOUSE", etc...



NIPNE Website Cloud

- Install a customised template for all departments and **standardise the aspect** across multiple domains.
- Allow departments to **easily change content** (including the **upload of files**) without the need of technical skills.
- **Centrally manage websites** and **perform upgrades** to the platform as well as **handle security**.
- Establish a **presence in social media** in order to have an **outreach to the general public**.
- Using ACLs, **separate public from internal information**.
- Standardise personnel pages using a consistent structure.

