



Drupal

*Gluing people and
code together*

Gábor Hojtsy

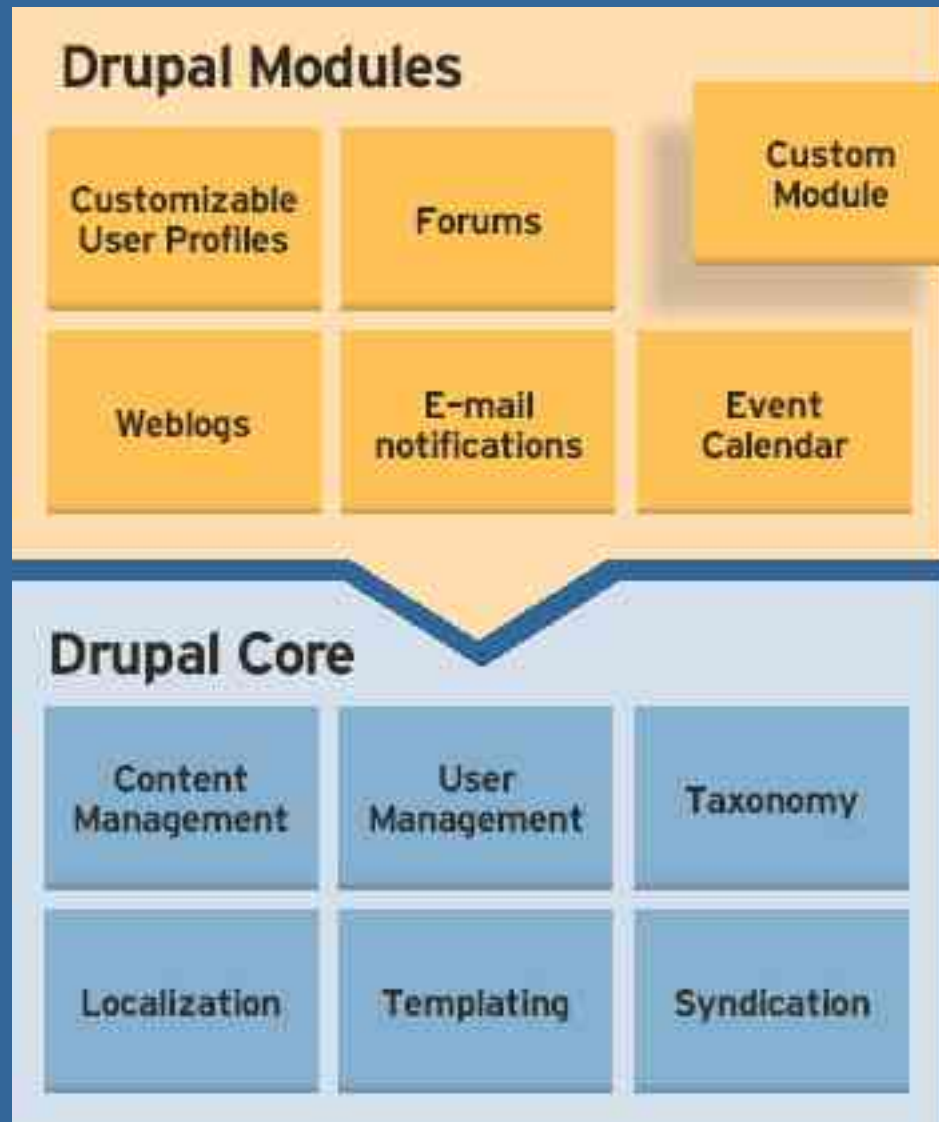
OSCOM 4, Zürich

Sept 29th - Oct 1st, 2004

Introducing Drupal

- Drupal is an open source, standards based CMS/CMF built using the PHP language.
- Consists of two main components:
 - Drupal Core – base services with some common modules and themes – managed by a small group
 - Contributed modules / themes – open area for everybody involved in modules and themes
- Everything is accessible at <http://drupal.org/>

Drupal code structure



Use cases and distributions

- Corporate websites – [DrupalCOM](#)
 - Easy to customize and apply the corporate look
- Community / education sites – [DrupalEd](#)
 - Collaboration and ease of use
- Campaign sites – [DeanSpace](#) and [CivicSpace](#)
 - Strong networking features
- Personal sites – [Drupal 4 Bloggers](#) and [DrupalBlog](#)
 - Blogging, photos, links

Principles (1)

- Good source code – clean and well architected code with API documentation comments
- Modular – a small yet powerful core enables the use of modules and themes
- Standards compliant – search engine friendly XHTML output and URL schemes
- Stable – long and active quality assurance periods guarantee the stability of the code

Principles (2)

- Open – the core and contributed packages are all GPL licensed, all support channels are public
- User friendly – once set up, the interfaces are unified and optimized for ease of use
- Community oriented – user centric features help building a community

Drupal is

- A Content Management System
 - For everyday users, it comes with ready-to-use tools to publish and organize content
- A Content Management Framework
 - For developers, it provides a good base to extend and implement custom content management solutions
- A Web Application Framework
 - For developers, it provides services to implement any kind of web application

Web Application Framework (1)

- Menu and URL handling system
 - Centralized URL handling and menu building
 - Short URLs, aliasing and programatic mass aliases
- Hook system
 - Implements and utilizes a consistent hook system
 - Enables usage of different modules

Web Application Framework (2)

- Database abstraction
 - Provides flexible table prefixing
 - Prevents against SQL injection attacks
- Simple template abstraction
 - Can support any number of templating systems
 - Unified form generation

Web Application Framework (3)

- User management
 - Role based user grouping
 - Distributed authentication
 - Extensible user profiles
- Interface translation
 - Using Gettext files and via a web interface
- Multisite hosting
 - Any number of sites can run from the same codebase

Content Management Framework (1)

- Store content in **nodes**
 - Handles content metainformation
 - Provides versioning capabilities
 - Enables the content to be categorized (in taxonomy)
 - Very easy to extend – all content types extend it
 - Flexinode supports user defined types

Content Management Framework (2)

- Categorize content in the **taxonomy**

<http://en.wikipedia.org/wiki/Taxonomy>

- Define multiple category schemes (vocabularies)
- Any type of relationships between terms
 - Hierarchy, multiple hierarchy, relations, synonyms
- All types use this to classify content
 - Forum categories, news sections, article series
- Automatically supports RSS feeds for terms

Content Management System

- Predefined content types and taxonomy views
 - Forums, polls, static pages, stories
- User friendly interface on top of the APIs
 - Taxonomy editor, node submission and editing
- Simple workflow support
 - Pre- and postmoderation

Live demonstration

- Categorizing content – taxonomy
- Adding content – the story type
- Content filtering – input formats
- Defining custom types – flexinode
- News aggregation - aggregator

Case study

- We would like to have our keywords highlighted in all of our posts and add fancy formatting for our attached images
- This will showcase
 - How to create and enable a new Drupal module?
 - How to plug into the filter system?
 - Using the upload module to attach images

Questions?

Now ask your questions,
or later today,
or at <http://drupal.org/>