

Absolute Beginner's Guide to Drupal



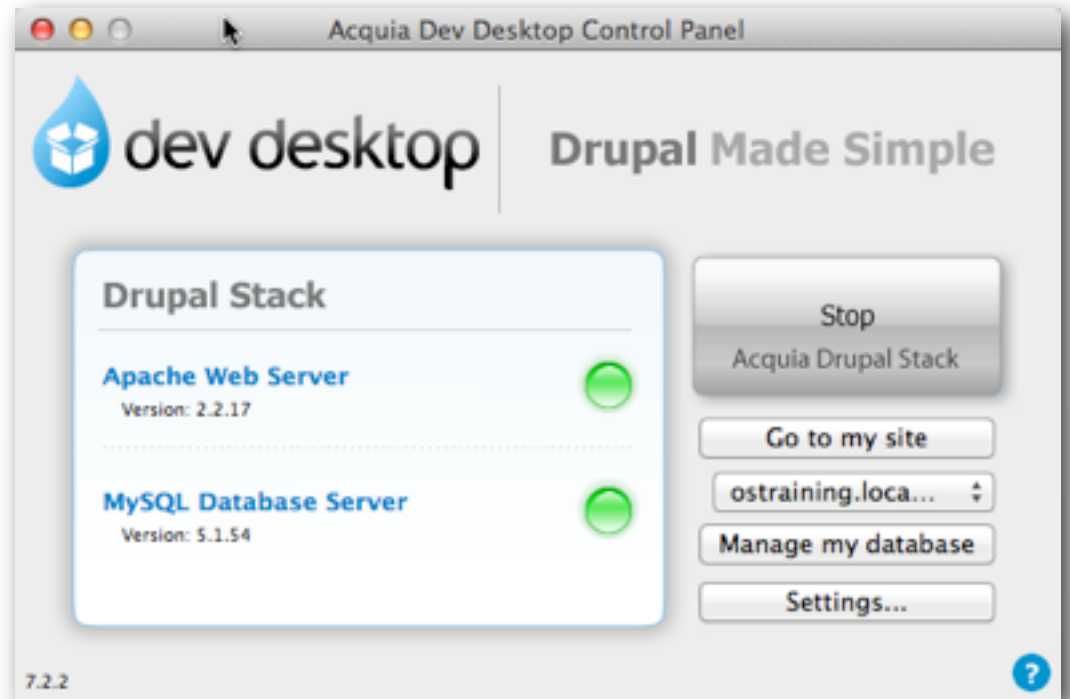
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The “OSWay”

1. Introduction
- 2. Install**
- 3. Create**
- 4. Extend**
- 5. Design**
6. Practice



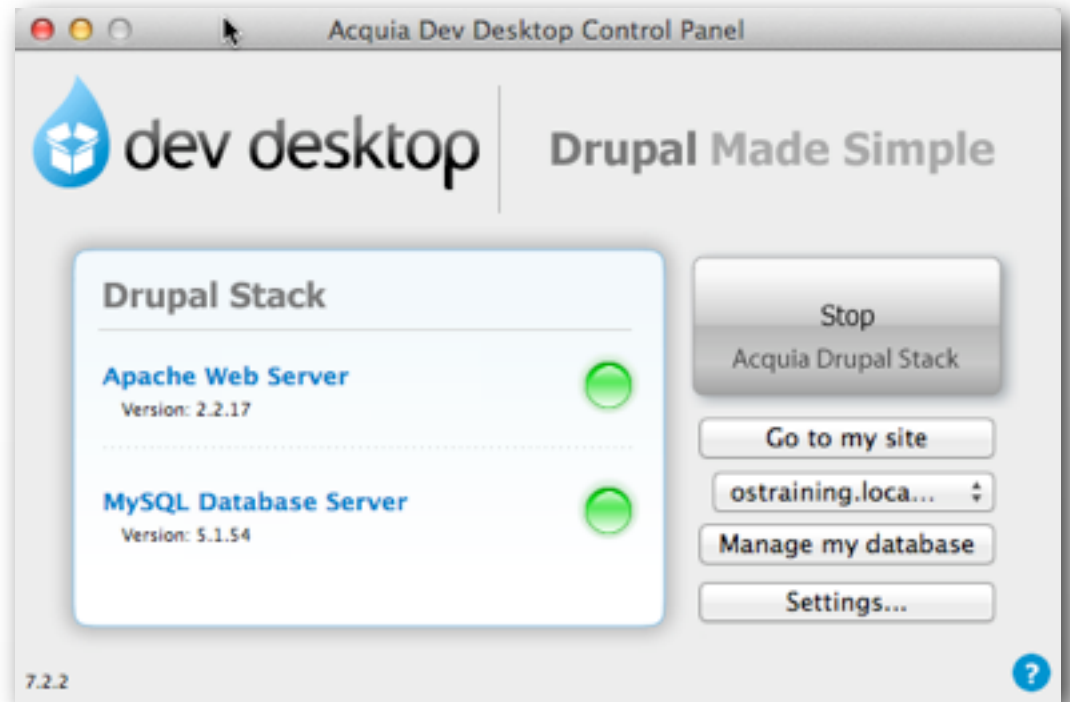
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Drupal

- **What?** A Content Management System
- **When?** Started in 2000 by Dries Buytaert a student at a university in Belgium.



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What is a Content Management System (CMS)?

- a software platform that aids in the management of content on a Web site.

<http://www.anvilmediainc.com/search-engine-marketing-glossary.html>

- a software application that makes it possible for non-technical users to publish content to a website. A CMS serves as a store for a wide range of information assets, including text, image databases and so on.

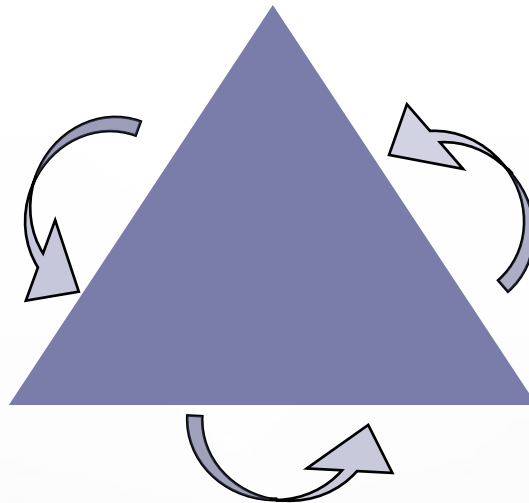
www.publiclife.co.uk/glossary.html

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What is a Content Management System (CMS)?



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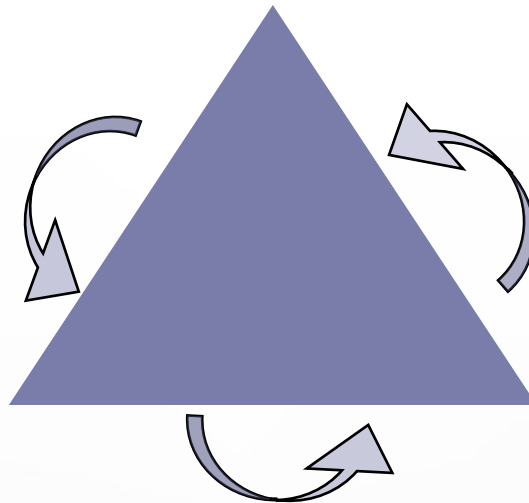
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What is a Content Management System (CMS)?

Content

**Creative Writing,
Editing, HTML**



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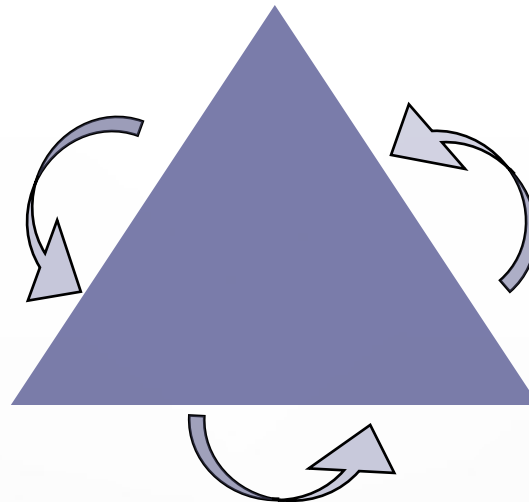
What is a Content Management System (CMS)?

Content

**Creative Writing,
Editing, HTML**

Creative Design

**Site Design and Page
Layout, Information
Architecture, Usability
Design**



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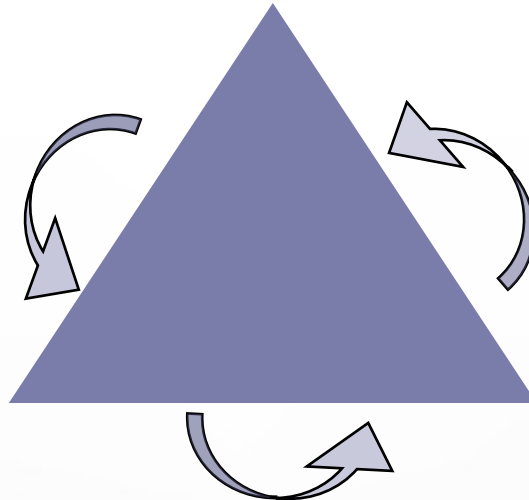
What is a Content Management System (CMS)?

Content

**Creative Writing,
Editing, HTML**

Creative Design

**Site Design and Page
Layout, Information
Architecture, Usability
Design**



Technical Design

**Custom Programming,
Database, PHP, AJAX,
JavaScript, etc.**

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The Drupal Business Model

Drupal is free.

How is that possible? Drupal is run by volunteers working for Drupal businesses.

Drupal is free: but Drupal sites often aren't.

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The Business Behind Drupal

Drupal is still led by its founder, Dries Buytaert.

His company Acquia runs much of Drupal's products, services and support



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DrupalCon London



Don't Miss This

Featured Speaker

Angela Byron

The Drupal community is the Drupal project's greatest strength, yet far too few of us actually contribute back to the project, for a variety of reasons. This talk will focus on debunking myths about the community, providing strategies for getting your feet wet and imparting community tips and tricks for experienced Drupallistas as well.



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What Does Drupal Mean?

Drupal is a misspelling of “drop” in Dutch.

That explains the logos:



acquia™

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Users: White House

The screenshot shows the White House website's header with the logo and navigation menu. The main content area features a large banner for "50 States / 50 Stories" with a sub-headline: "Learn what's happening in your state and hear stories from people across the country who are benefiting from the Affordable Care Act. [Visit the Map](#)". Below this is a blue sidebar for "HEALTH REFORM in ACTION" with a text block: "Six months after the passage of health reform, hear from Americans who are already benefitting and watch as President Obama makes a surprise call to a New Hampshire woman." Two buttons are present: "Learn More" and "Watch the Video". A video player shows President Obama on the left and Gail O'Brien on the right. A pagination bar at the bottom of the sidebar shows "1 2 3 4" with "3" selected. A small caption at the bottom right of the video reads "President Obama speaks to Gail O'Brien".

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Department of Commerce

The screenshot shows the homepage of the U.S. Department of Commerce website. At the top left, it displays the date "SUNDAY, SEPTEMBER 20, 2010" and the site logo "COMMERCE.GOV UNITED STATES DEPARTMENT OF COMMERCE". On the right, there are links for "PERSON FINDER" and "SITE FEEDBACK", and a search bar with the text "SEARCH Search this site". Below the header is a navigation menu with links for "Home", "The Commerce Blog", "Newsroom", "Office of the Secretary", "About Commerce", and "Contact". The main content area features a large photo of Secretary Locke and another man at an event, with the headline "Secretary Locke Announces Opening of CommerceConnect Office". To the right of the photo is a sidebar with a dropdown menu labeled "I want to...", a section titled "What is the U.S. Department of Commerce?" with a brief description of the department's mission, and a link to "Find out more about Commerce.".

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Department of Education



The screenshot shows the ED.gov website homepage. At the top left is the ED.gov logo and the text "U.S. Department of Education". To the right is a search bar with a magnifying glass icon and the text "Advanced Search". Below the search bar is a navigation menu with links for "Funding", "Policy", "Research", "News", and "About ED". The main content area features a large banner titled "Let's Fix NCLB" with a sub-headline "Secretary Duncan invites the new Congress to fix No Child Left Behind so that it provides flexibility and fairness, invests in teachers and principals, and focuses on schools and students most at risk." Below the banner is a "READ MORE" link. To the right of the banner is a "How Do I Find...?" section with a list of links: "Student loans, forgiveness", "Pell grants", "Accreditation, schools", "Grants", "No Child Left Behind", and "More". Below the banner is a "News" section with a sub-headline "National Youth Summit: Leading the World in College Completion" and a "Features" section with a sub-headline "ESEA Reauthorization: A Blueprint for Reform". At the bottom right are three buttons: "Teachers", "PreK-12 Reform", and "College Completion", each with a "LEARN MORE" link.

ED.gov U.S. Department of Education

Advanced Search

Funding Policy Research News About ED

Let's Fix NCLB

Secretary Duncan invites the new Congress to fix No Child Left Behind so that it provides flexibility and fairness, invests in teachers and principals, and focuses on schools and students most at risk.

[READ MORE >](#)

How Do I Find...?

- Student loans, forgiveness
- Pell grants
- Accreditation, schools
- Grants
- No Child Left Behind
- More

Teachers

[LEARN MORE](#)

PreK-12 Reform

[LEARN MORE](#)

College Completion

[LEARN MORE](#)

News

All Blog Press Releases Speeches Media Advisories

FRIDAY, JANUARY 14
National Youth Summit: Leading the World in College Completion

THURSDAY, JANUARY 13
Science Strategy at Work: Project-Based Lesson in Genetics

THURSDAY, JANUARY 13
Teacher Evaluation: Listening to Students

Features

ESEA Reauthorization: A Blueprint for Reform

Read the Obama Administration's blueprint for revising the Elementary and Secondary Education Act (also known as the No Child Left Behind Act).

[READ MORE >](#)

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Grammy Awards

The screenshot shows the GRAMMY.com website interface. At the top, there is a navigation bar with links for GRAMMY.org, THE RECORDING ACADEMY, GRAMMY FOUNDATION, MUSICARES, THE LATIN RECORDING ACADEMY, GRAMMY MUSEUM, and GRAMMY 365. Below this is a secondary bar with LOGIN | REGISTER and a SEARCH box. The main header features the GRAMMY.com logo on the left and promotional text on the right: "The 53rd Annual GRAMMY Awards Watch on CBS 8PM ET/PT, February 13" and a countdown timer "28DAYS . 8HRS . 34MINS . 41SECS". A secondary navigation bar includes links for HOME, PHOTOS, VIDEOS, BLOGS, NEWS, NOMINEES, GRAMMY LIVE, RADIO, PRESS, SPONSORS, and STORE. The main content area is divided into three sections: a large featured image of Ryan Bingham with the headline "Feels Like The First Time" and sub-headline "Ryan Bingham blogs on his first GRAMMY nomination"; a vertical strip of smaller images of other nominees; and a "Videos" section featuring a video player for "2011 GRAMMY Nominees Album" with a play button and a video thumbnail for "EMINEM FEAT. RIBANNA Love The Way You Lie". Social media icons for Facebook, Twitter, YouTube, and others are also visible.

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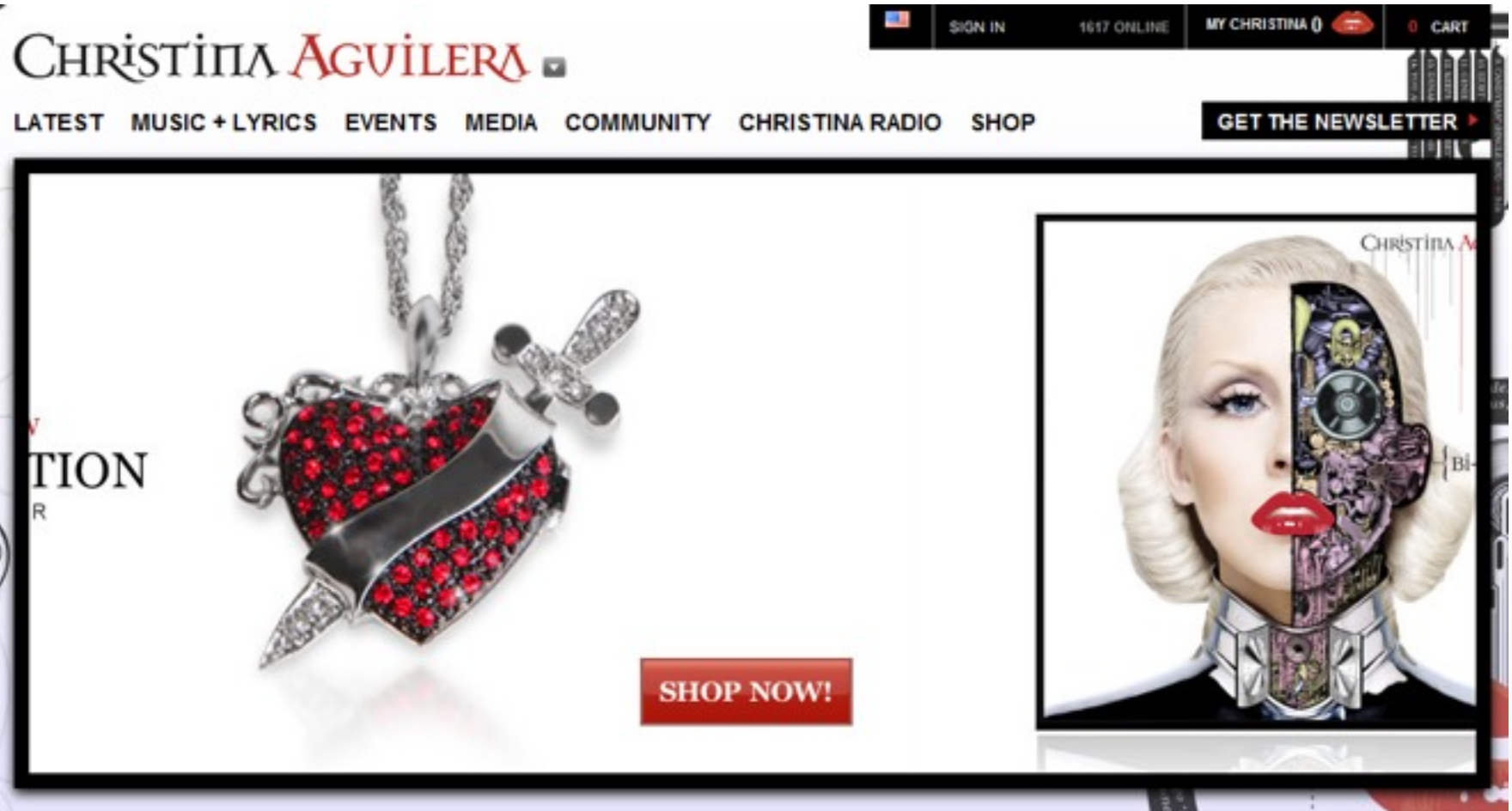


Christina Aguilera

CHRISTINA AGUILERA

SIGN IN 1617 ONLINE MY CHRISTINA 0 CART

LATEST MUSIC + LYRICS EVENTS MEDIA COMMUNITY CHRISTINA RADIO SHOP GET THE NEWSLETTER



TION
R

SHOP NOW!

CHRISTINA AGUILERA

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Major League Soccer

The screenshot shows the MLS Soccer website homepage. At the top, there is a navigation bar with the MLS Network logo, social media icons for Twitter, Facebook, and YouTube, and a RSS feed icon. Below this is the main header with the MLS Soccer logo and the URL 'MLS SOCCER.COM'. A secondary navigation bar contains links for Home, News, Draft, Transactions, Schedule, Standings, Stats, Players, Videos, Podcasts, CCL, Community, Fantasy, Clubs, Store, and Español.

The main content area features a large featured article titled 'American Exports Notepad' with a sub-headline 'Jones to Rovers? Plus Holden, Buddle & Gooch news'. To the right of this article is a 'TOP STORIES' sidebar with a list of news items. Below the main article are four smaller thumbnail images with captions: 'American Exports', 'Sporting Think Big', 'A Good Start?', and 'Relive The Draft'.

MLS NETWORK | [t](#) [f](#) [YouTube](#) | RSS

MLS SOCCER.COM

Home News Draft Transactions Schedule Standings Stats Players Videos Podcasts CCL Community Fantasy Clubs Store Español

American Exports Notepad

Jones to Rovers? Plus Holden, Buddle & Gooch news

SAT: Edu scores, Deuce assists
Preview: Howard in derby clash
Fantasy: Liverpool or Everton?
U-20s Gatt signs with Molde FK

TOP STORIES

- American Exports: Edu scores, Deuce assists
- NY academy standout Hot on trial in Germany
- Dynamo offers contracts to academy players
- Nanchoff: I had a feeling about Vancouver
- Crew impressed with Balchan's versatility
- Fire fan Campbell ready to fight for FCD
- Philadelphia decline option on Toni Stahl
- US to host Argentina, Paraguay in March
- SuperDraft: Team by Team
- Fantasy: Liverpool or Everton?

TOP VIDEOS

EXTRATIME RADIO

MONDAY + THURSDAY

SOCCER PODCAST

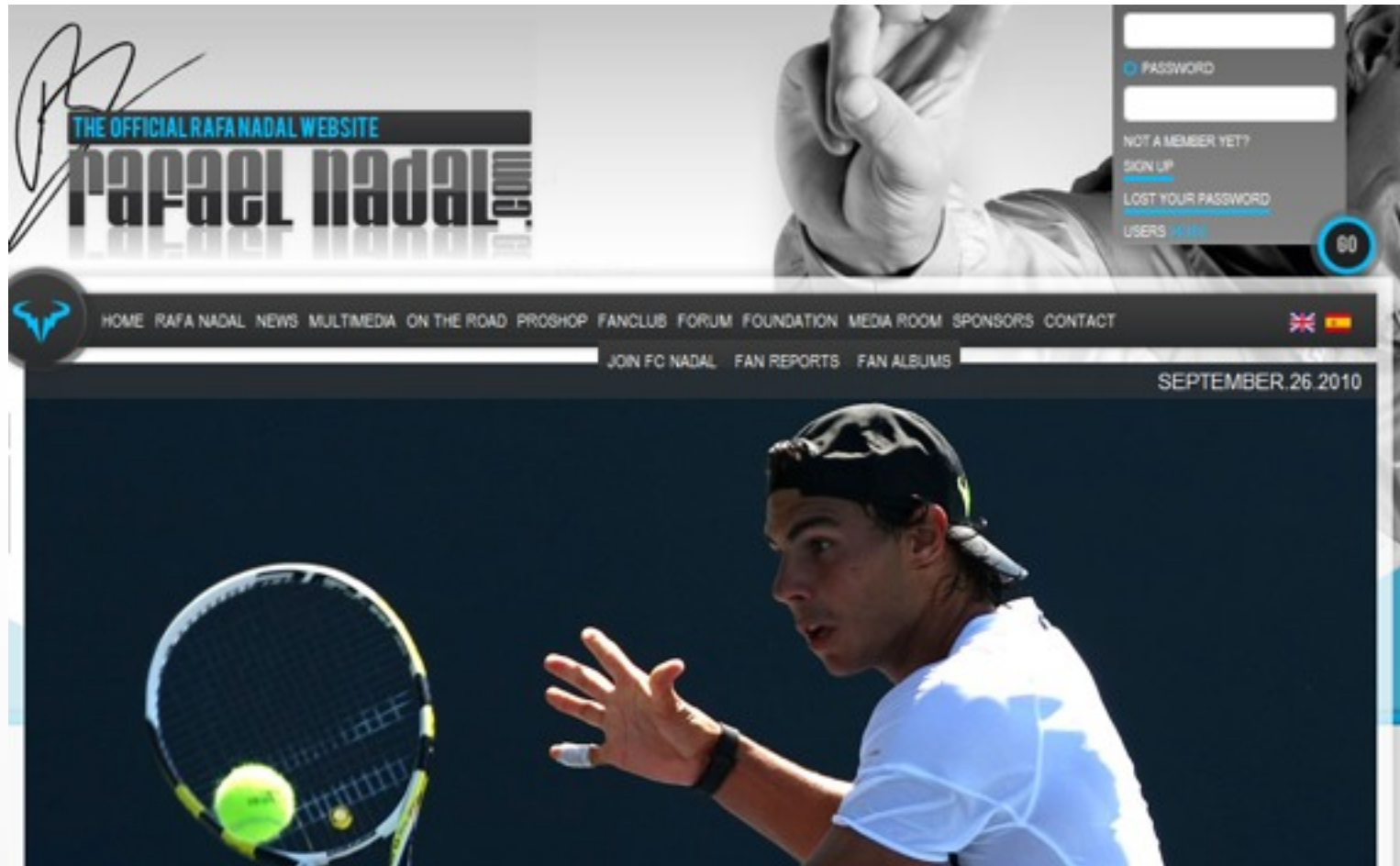
American Exports | Sporting Think Big | A Good Start? | Relive The Draft

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Rafael Nadal



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What's in your glovebox?



CHANNELS

MUSIC

SHOWS

NEWS

VIDEOS

MOVIES

GALLERIES

COMPETITIONS

GAMES

DOWNLOADS

MOBILE

Contact us

TV Guide

Search MTV - Type here

GO



I WANT MY MTV IBIZA

Duck Sauce to headline tonight. Get your tickets here...

INFO



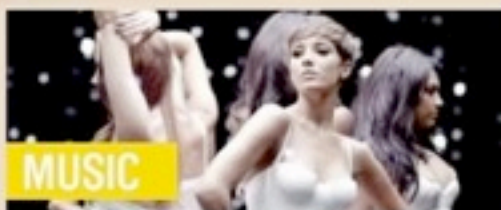
redefining / standards

ambitionaxaawards.com



NEWS

Rihanna Joins Eminem On Stage At V Festival



MUSIC

MTV's Most Wanted

This week's Most Wanted video is 'All Fired Up' by the UK's biggest girl group The Saturdays...



SHOWS

Awkward. New Show!

An unfortunate accident leaves Jenna in a neckbrace - and she goes from invisible to infamous

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No False Promises

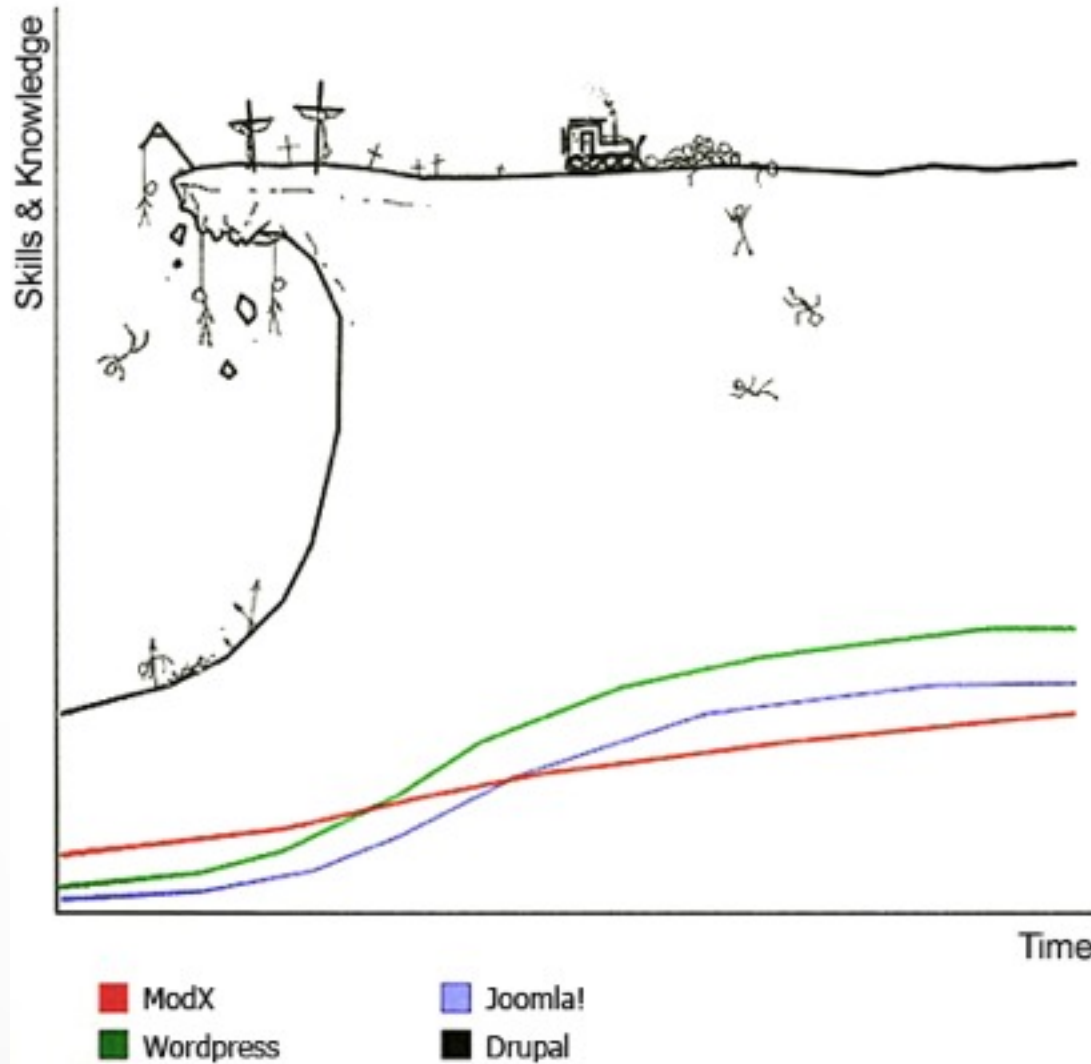
- **HUGE** learning curve beyond the basics

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Learning curve for popular CMS



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No False Promises

- **HUGE** learning curve beyond the basics
- **Quicker**, but good sites still take time
- **Cheaper**, but may cost \$XX,XXX or more
- **More Options**, but custom work often needed

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No False Promises

Drupal is not right for every site

- **WordPress** = very easy, but few features
- **Joomla** = easier, but less flexibility



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No False Promises



Joomla!



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No False Promises



Joomla!

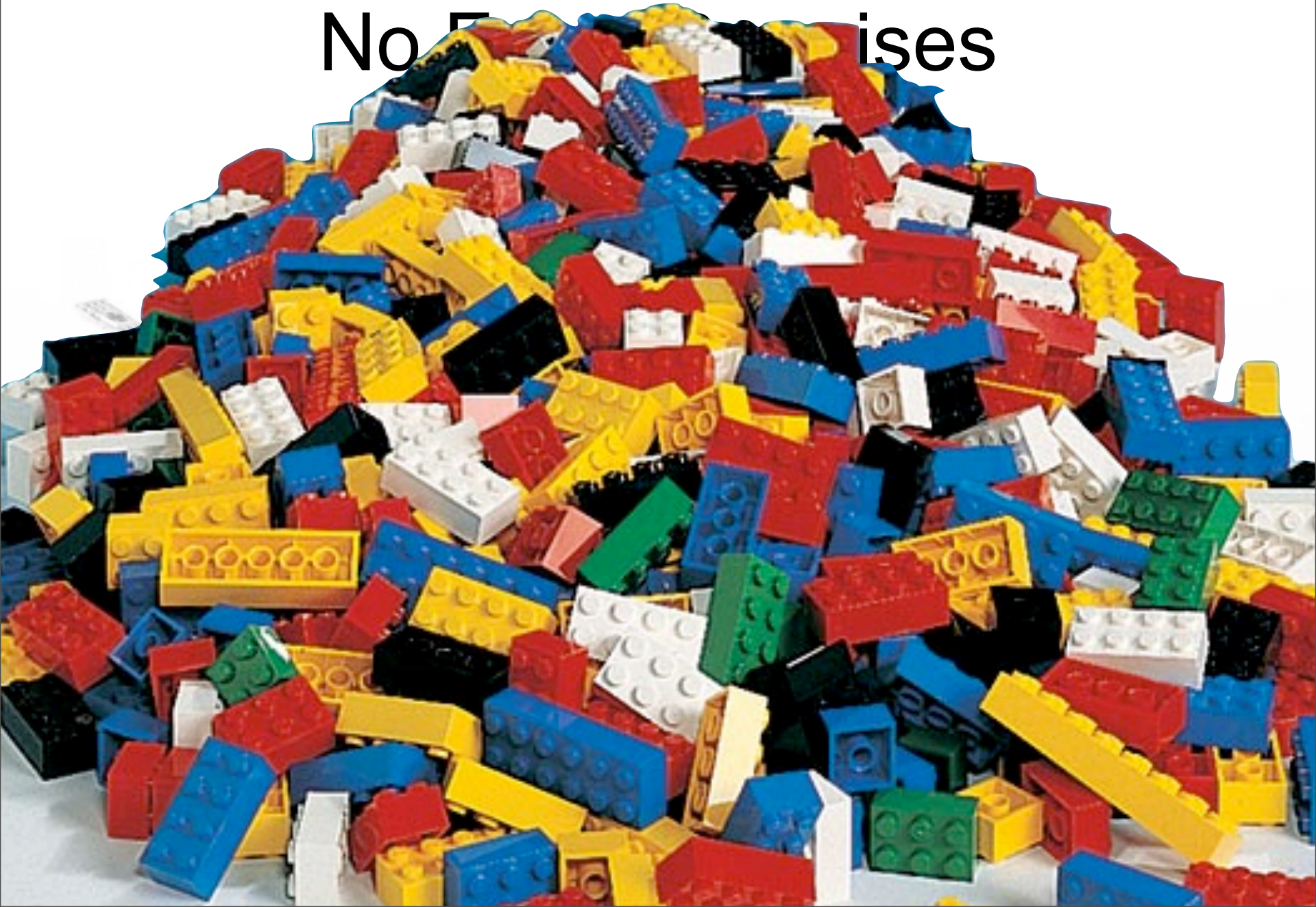


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No Fakes



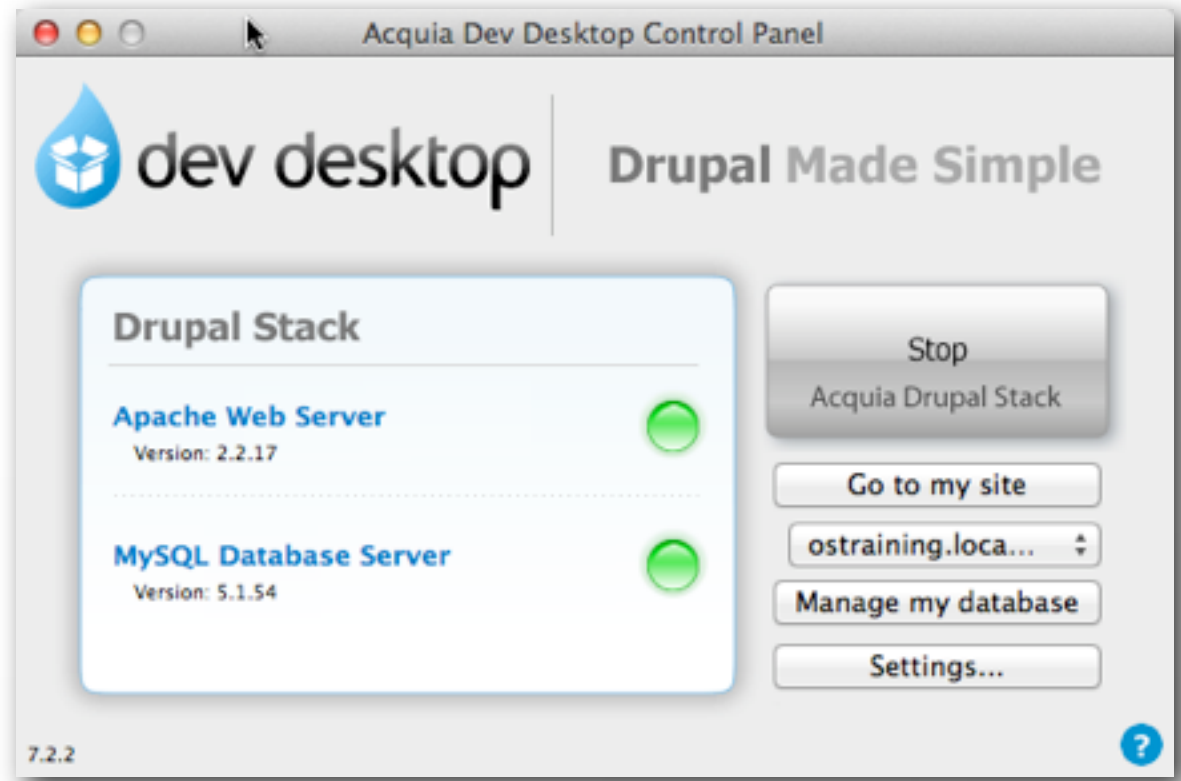
Why use Drupal 7?

- **Drupal 5**
 - Launched 2007. Updates have ended
- **Drupal 6**
 - Launched 2008. Still actively developed and used for 95% of sites.
- **Drupal 7**
 - Launched 2011.



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Installation #1 ... Automatic



Drupal



Short description: An advanced portal with collaborative book, search engines friendly URLs, online help, roles, full content search, site watching, threaded comments, version control, blogging, news aggregator.
Homepage: <http://drupal.org/>

Drupal support forum
(We are not associated with the support forum)

New Installation (7.0)
Disk space required: 14.18 MB
Disk space available: 472.5 MB

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Installation #2 ... Manual

The screenshot shows the FileZilla interface with the following elements:

- Address bar:** example.com
- User:** someone@
- Password:** masked with dots
- Port:** blank
- Quickconnect button:** highlighted with a red arrow.
- Terminal:** Shows the following output:

```
Response: 350 Restarting at 0
Command: TYPE A
Response: 200 TYPE is now ASCII
Command: PWD
Response: 257 "/public_html" is your current location
Command: TYPE I
Response: 200 TYPE is now 8-bit binary
```
- Local Site:** C:\webdesign\
- Remote Site:** /
- Local File List:**

Filename	Filesize	Filetype	Last M
css		File Folder	11/28/20
images		File Folder	11/28/20
art.html	314	HTML Document	11/26/20
index.html	314	HTML Document	11/29/20
photo.html	314	HTML Document	11/24/20
poetry.html	314	HTML Document	5/20/20
- Remote File List:**

Filename	Filesize
..	
.cpanel-datatstore	
.htpasswd	
.sqmldata	
.trash	
etc	
mail	
public_ftp	
public_html	
ssl	
tmp	
www	
.bash_logout	24
.bash_profile	191
.bashrc	124

Red arrows and text annotations indicate the following steps:

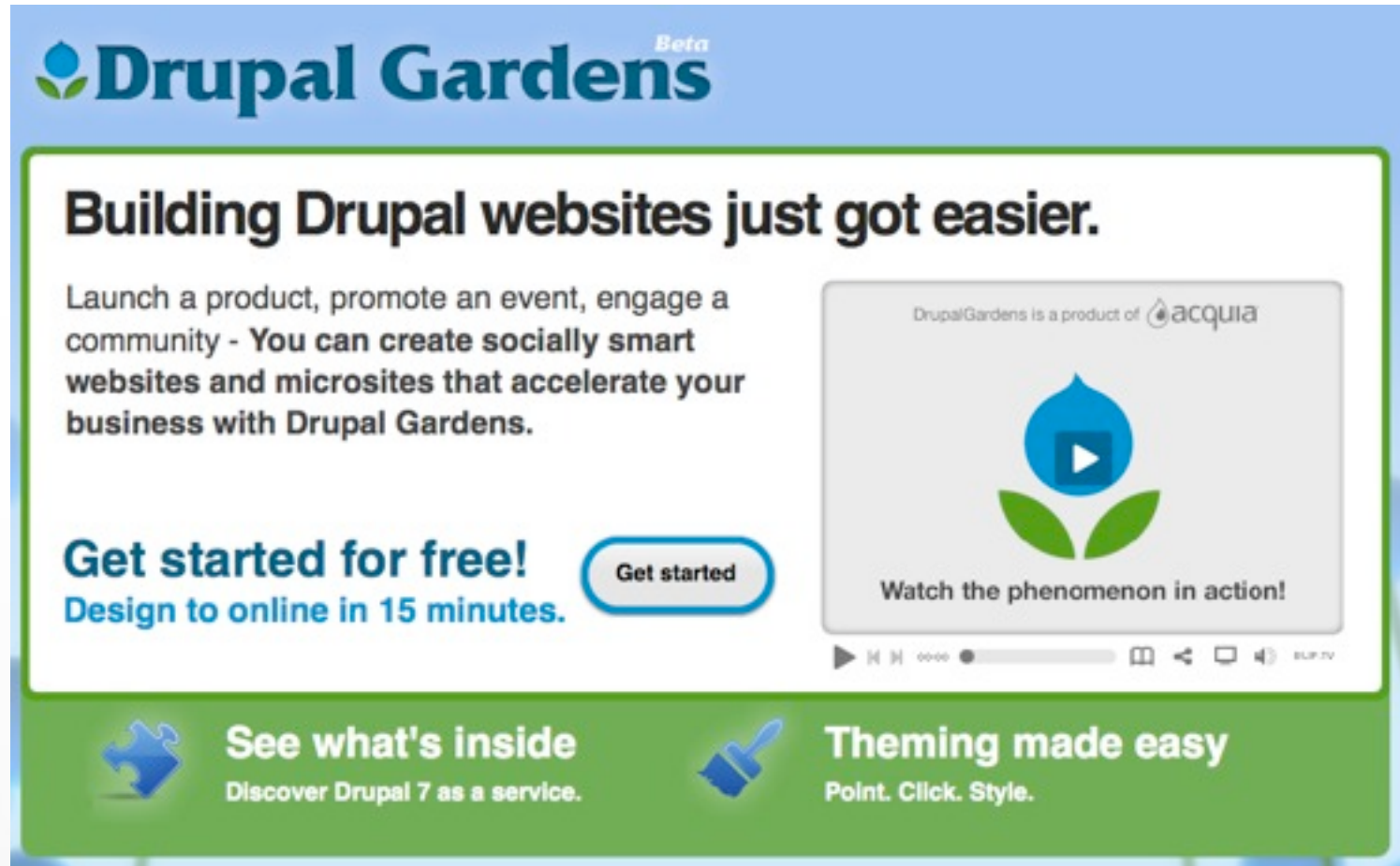
1. Enter server, username, password
2. Click QuickConnect
3. Drag files from local disk on left pane to remote server on right

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Installation #3 ... Cloud




Drupal Gardens Beta


Building Drupal websites just got easier.

Launch a product, promote an event, engage a community - **You can create socially smart websites and microsites that accelerate your business with Drupal Gardens.**

Get started for free!
Design to online in 15 minutes.


[Get started](#)


DrupalGardens is a product of  **acquia**



Watch the phenomenon in action!

▶ ⏪ ⏩ 🔊 🔍 📺 🔊 100% 0:00 1:00

 **See what's inside**
Discover Drupal 7 as a service.

 **Theming made easy**
Point. Click. Style.

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Installation #4 ... Desktop

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Installation #4 ... Desktop

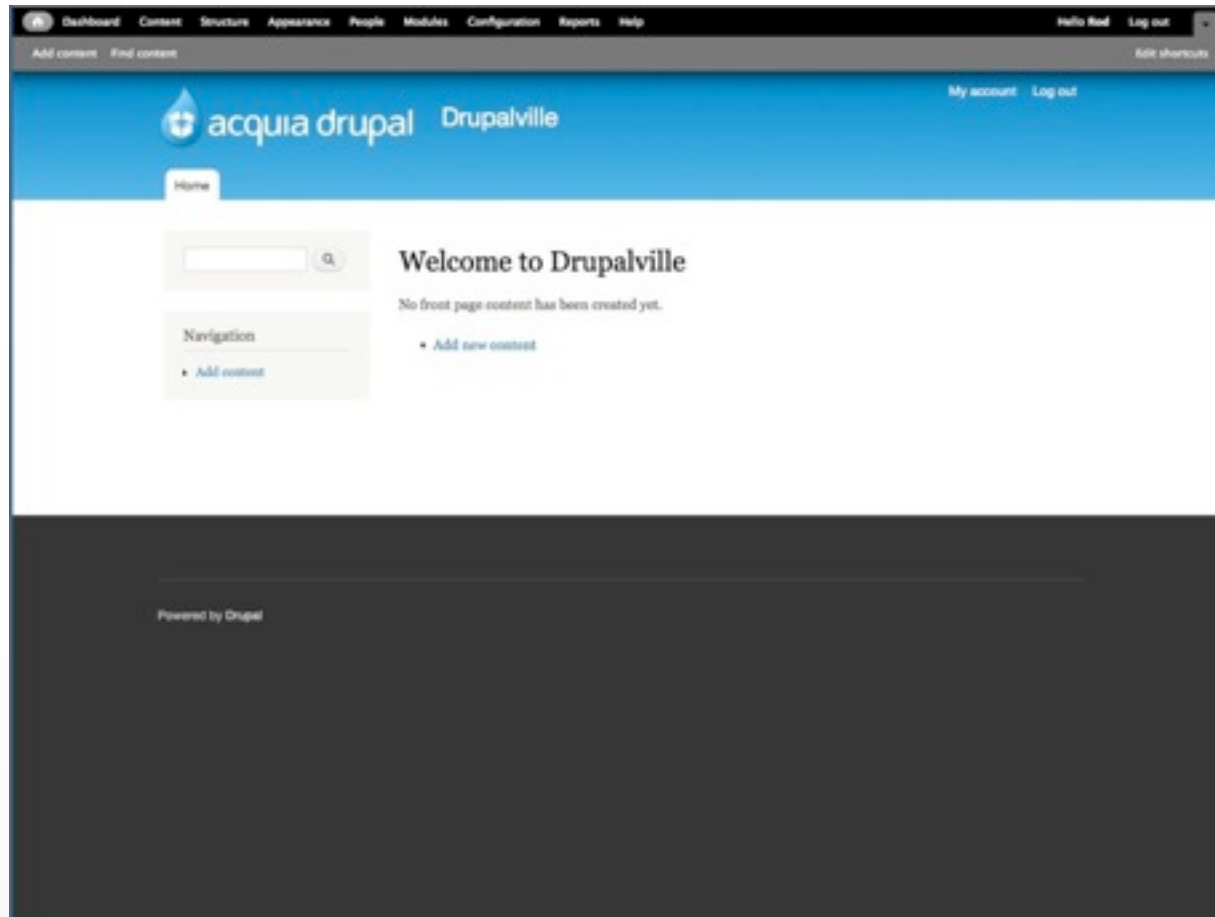


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Installation #4 ... Desktop



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Admin Area

Username: admin

Password: admin

User login

Username: *

Password: *

- [Create new account](#)
- [Request new password](#)

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Admin Area



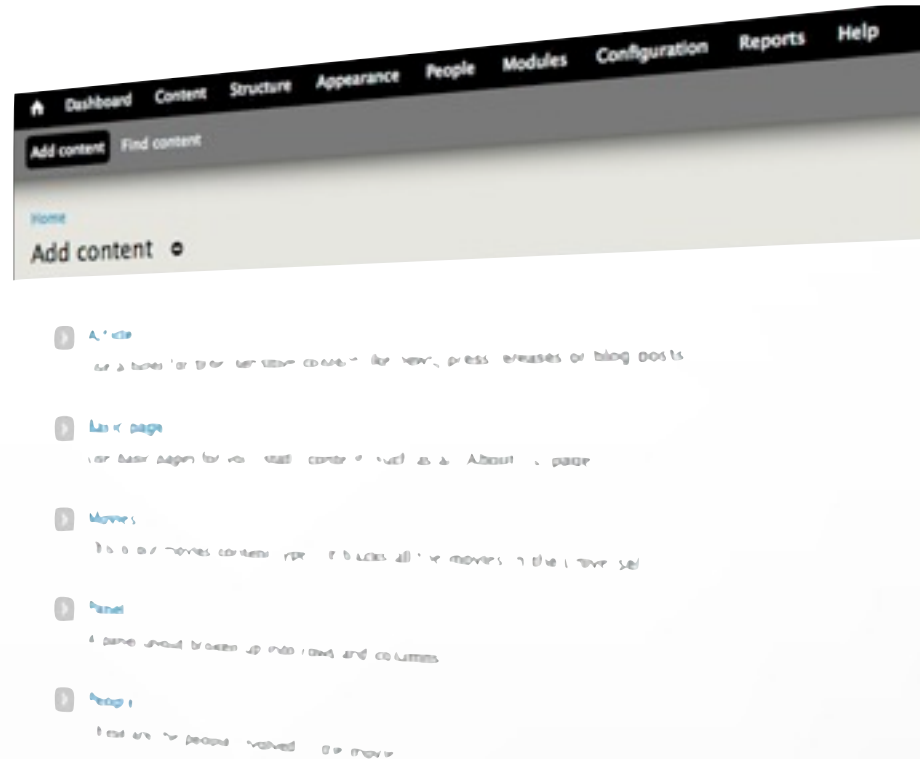
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Content Workflow



- 1) **Content types**
- 2) **Fields** (if extra data needed)
- 3) **Taxonomy** (if categories needed)
 - Vocabulary
 - Terms
- 4) **Create Content**



Content Workflow

1) Content types

- In Drupal, each item of content is called a node, and each node belongs to a single content type, which defines various default settings for nodes of that type, such as whether the node is published automatically and whether comments are permitted.
- Control over how content is added to your site.
- Goes way beyond the typical “Title” and “Body” fields.



Content Workflow

2) Fields

- Attached to Drupal entities (content nodes, users, taxonomy vocabularies, etc.) fields take care of storing, loading, editing, and rendering field data. Where content is added to your site.
- Can be sorted, selected, presented in any setting.
- Allow for customizing your content for maximum flexibility.



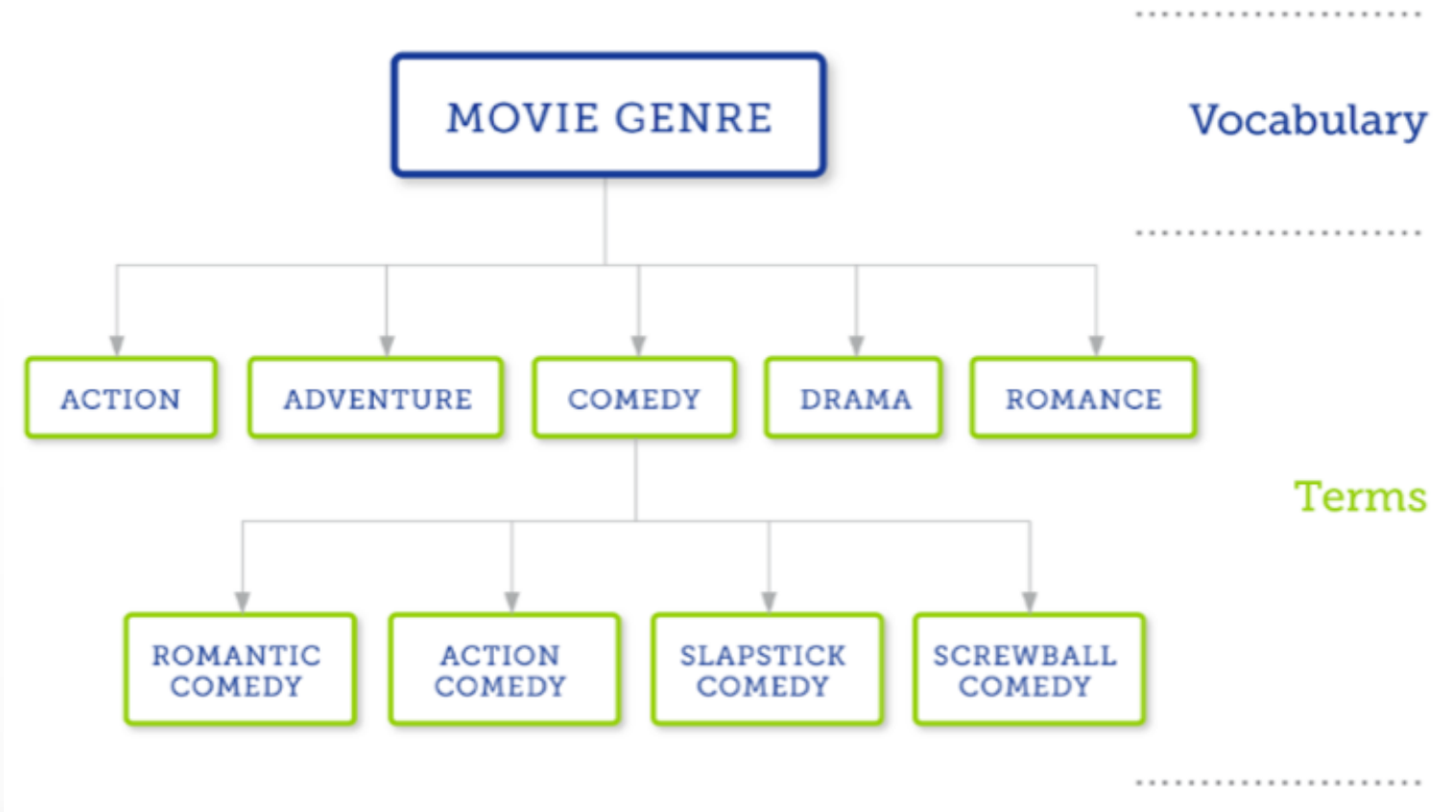
Content Workflow

3) Taxonomy

- Categorization
- Set up Master Categories = Vocabulary
- Set up Sub Categories = Terms
- Drupal then creates master links for each term



Content Workflow



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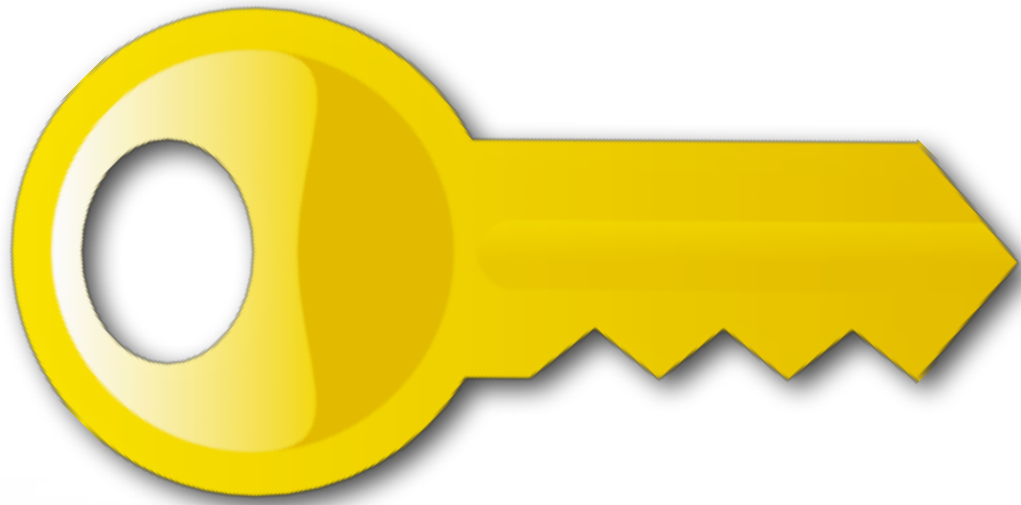
Content Workflow

4) Create Content

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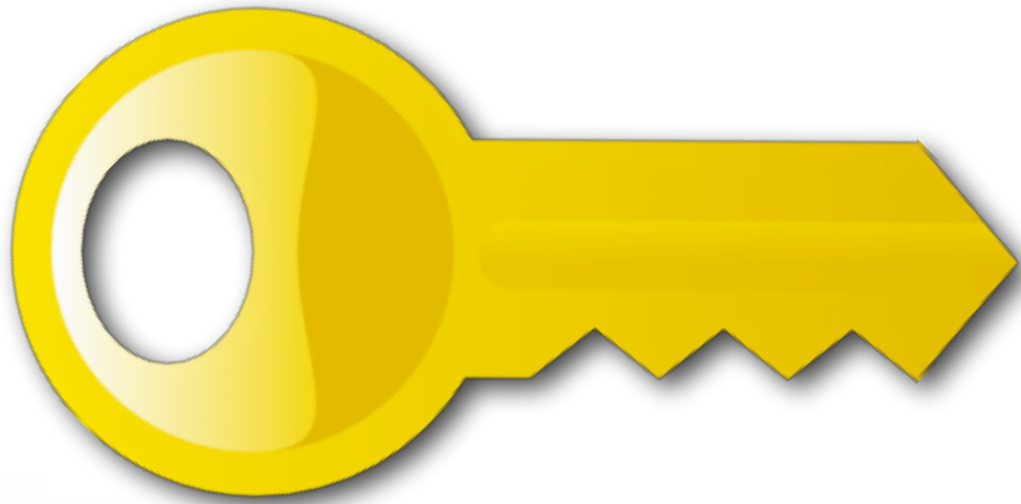




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Planning

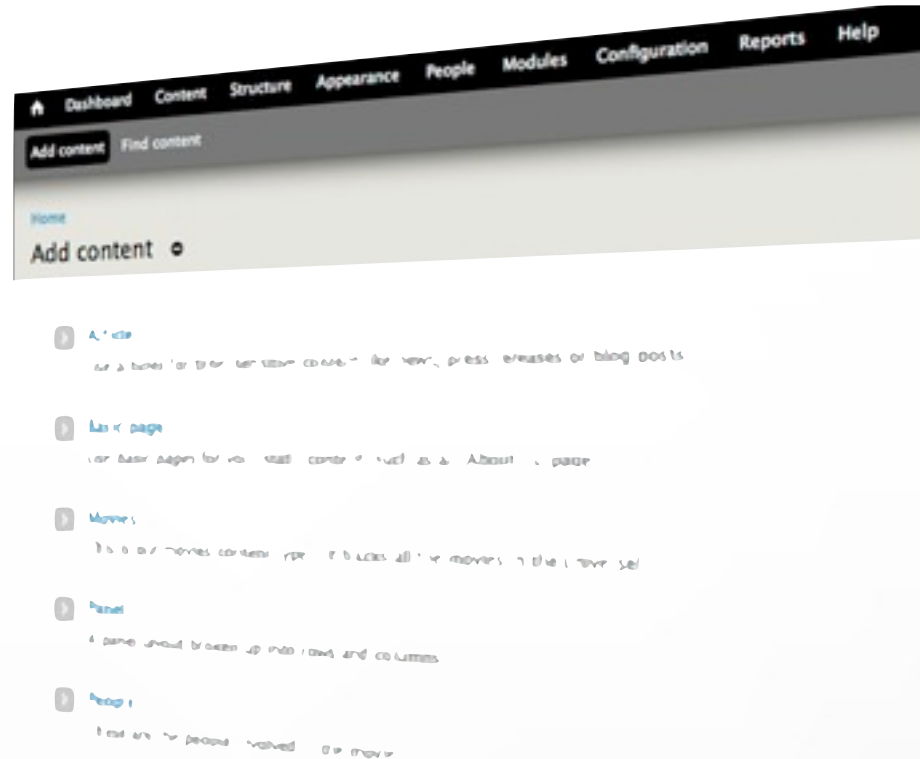
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2. Themes

The screenshot shows a Drupal website interface with several annotated elements:

- 2. Themes:** An orange arrow points from the label to the top navigation bar.
- 4. Menus:** An orange arrow points from the label to a horizontal menu containing 'Home', 'Menu Link 1', 'Menu Link 2', and 'Menu Link 3'.
- 1. Modules:** An orange arrow points from the label to a 'User login' form on the left side of the page.
- 3. Blocks:** An orange arrow points from the label to the main content area on the right, which contains three article blocks: 'Article 3', 'Article 2', and 'Article 1'. Each article block includes a title, a publication date, and a 'Read more' link.

3. Blocks

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A. Modules Workflow



- 1) Download
- 2) Install
- 3) Enable
- 4) Configure

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drupal.org/project/modules

Modules

You can also view an [alphabetical list of projects](#) that includes all projects but only their names.

Contributed (contrib) modules are plugins for Drupal that extend, build or enhance Drupal core functionality. Use matching [versions](#) (modules released for Drupal 5.x will not work for Drupal 6.x). Contributed modules are not part of Drupal core releases and may or may not have optimized code/functionality. If a module solves your needs please consider [joining forces](#) and helping the maintainer. You can [view module usage statistics](#) for all modules to view the most popular modules used by the Drupal community.

Views

By [martinofchaos](#) on the 25th of November, 2009

The Views module provides a flexible method for Drupal site designers to control how lists and tables of content (nodes in Views 1, almost anything in Views 2) are presented. Traditionally, Drupal has hard-coded most of this, particularly in how taxonomy and tracker lists are formatted.

This tool is essentially a smart query builder that, given enough information, can build the proper query, execute it, and display the results. It has four modes, plus a special mode, and provides an impressive amount of functionality from these modes.

Sort by

- Title
- Creation date
- Last release
- Recent activity
- Usage statistics

Search modules

Filter by compatibility

- 4.7.x
- 5.x
- 6.x
- 7.x

DrupalModules.com

Drupal Modules | Module Finder | New Modules | RSS Feeds | Code Search | Drupal Hosting | News

Home | Latest Reviews | Top Rated | Most Downloaded | Most Favored | Category List | Rating Guide | Forum | About | Sponsor Us

Search with Module Finder

Category: Version:

Title: Body:

Welcome to Drupal Modules!

Search, Rate, And Review Drupal Modules

Hello, and welcome to DrupalModules.com, a community-powered rating and review service dedicated to helping you find the best Drupal modules for your project!

Need help finding the right Drupal module? Try [Module Finder](#), a powerful new tool that searches as you type! Filter modules by category, version, title, or keywords, and watch the results update in real time.

Want to see what other Drupal users think? Check out the top Drupal modules as ranked by rating or downloads, or just browse through the latest module reviews.

Search Modules

Restrict search to:

- Drupal 6.x
- Drupal 5.x
- Drupal 7.x
- Modules
- Reviews

User login

Username:

Password:

Sponsored By

DRUPALCON SF[®]
April 19-21, 2010

Need better Drupal Hosting?
There's a review for that.

Highest Rated

- Better Formats
- Administration menu
- Backup and Migrate
- CAPTCHA

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Upload Modules

Files needed to be uploaded to either:

`/sites/all/modules/` or:

`/sites/default/modules/`

***** do not upload to `/modules/`**

OR

use the new installer!

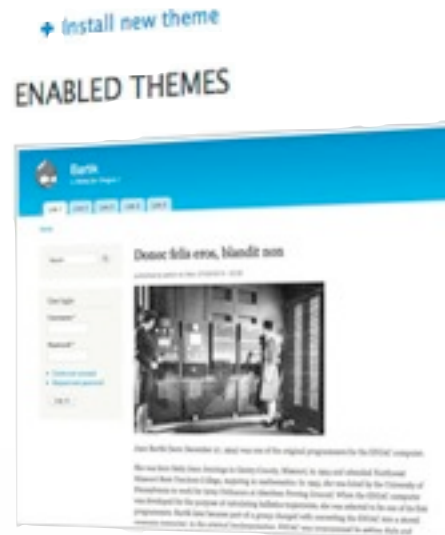
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Bartik 7.2 (default theme)

A flexible, recolorable theme with many regions.

[Settings](#)



Seven 7.2

A simple one-column, tableless, fluid width adminis

[Settings](#) | [Disable](#) | [Set default](#)

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B. Themes

Each theme has different block positions



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Theme Sources

- 1) Free themes
- 2) Commercial themes (\$50 to \$250)
- 3) Theme Generator (\$100)
- 4) Custom (\$2000 and upwards)



1) Free Themes

Drupal.org/project/Themes

Download & Extend Home Drupal Core Modules **Themes** Translations Installation Profiles

844 Themes match your search

Filter by compatibility:

Status:

Search Themes:



Sort by:

Themes allow you to change the look and feel of your Drupal site. You can use themes contributed by others or create your own to share with the community. Contributed themes are not part of any official release and may not have optimized code/functionality for your purposes. You can also create a sub-theme of an existing theme. A sub-theme inherits a parent theme's resources. Read more about [Sub-theme structure and inheritance](#). You can also [view a full index of themes listing only their titles](#).

Zen

Posted by [JohnAlbin](#) on October 11, 2006 at 12:24am
Last changed: 5 weeks 6 days ago

Zen is the ultimate starting theme for Drupal. If you are building your own standards-compliant theme, you will find it much easier to start with Zen than to start with



Drupal Themes

[Theme guide v6](#)
[Theme guide v5](#)
[Troubleshooting themes](#)
[IRC Channel](#). #drupal-themes on freenode.

Mailing list, sign up [here](#).

More advanced themes are table-less, a good example of this is the core Garland theme or the [Tapestry](#) theme. For creating custom themes, the [Zen](#) theme provides a good starting point.

Most Installed

- [Zen](#)
- [Fusion](#)
- [Acquia Marina](#)
- [Marinelli](#)
- [More Most installed](#)

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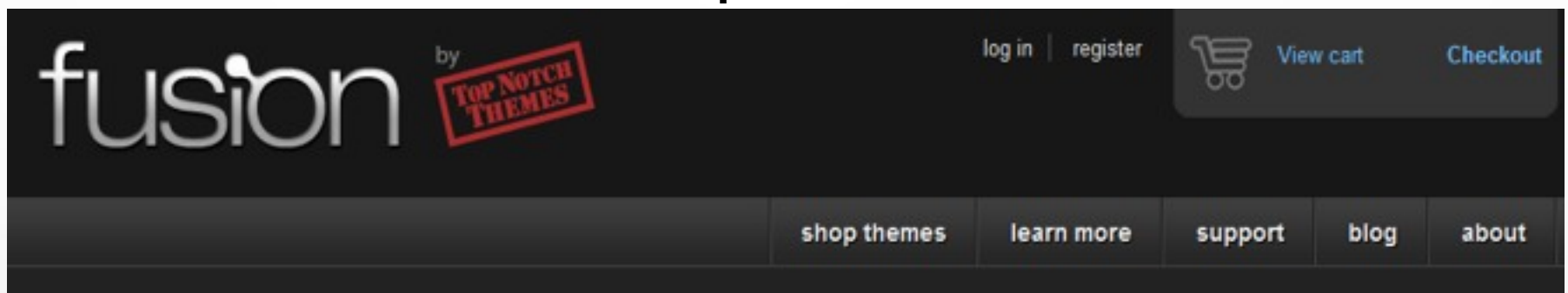


2) Commercial Themes

RocketTheme.com



FusionDrupalThemes.com



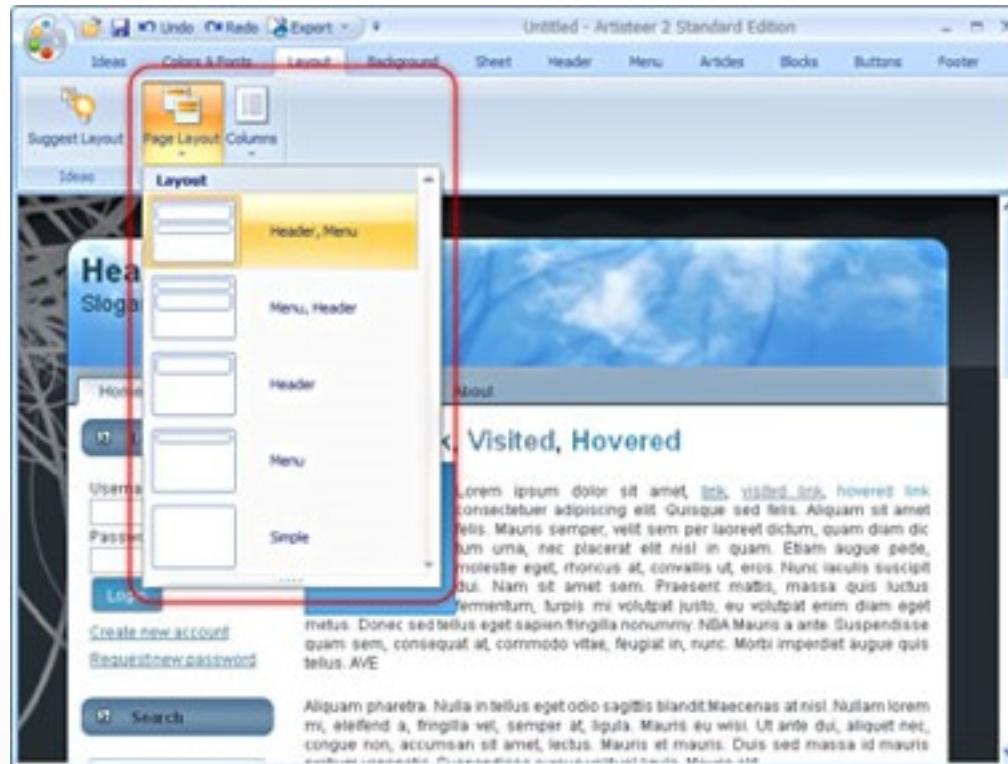
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3) Theme Generator

Artisteer.com

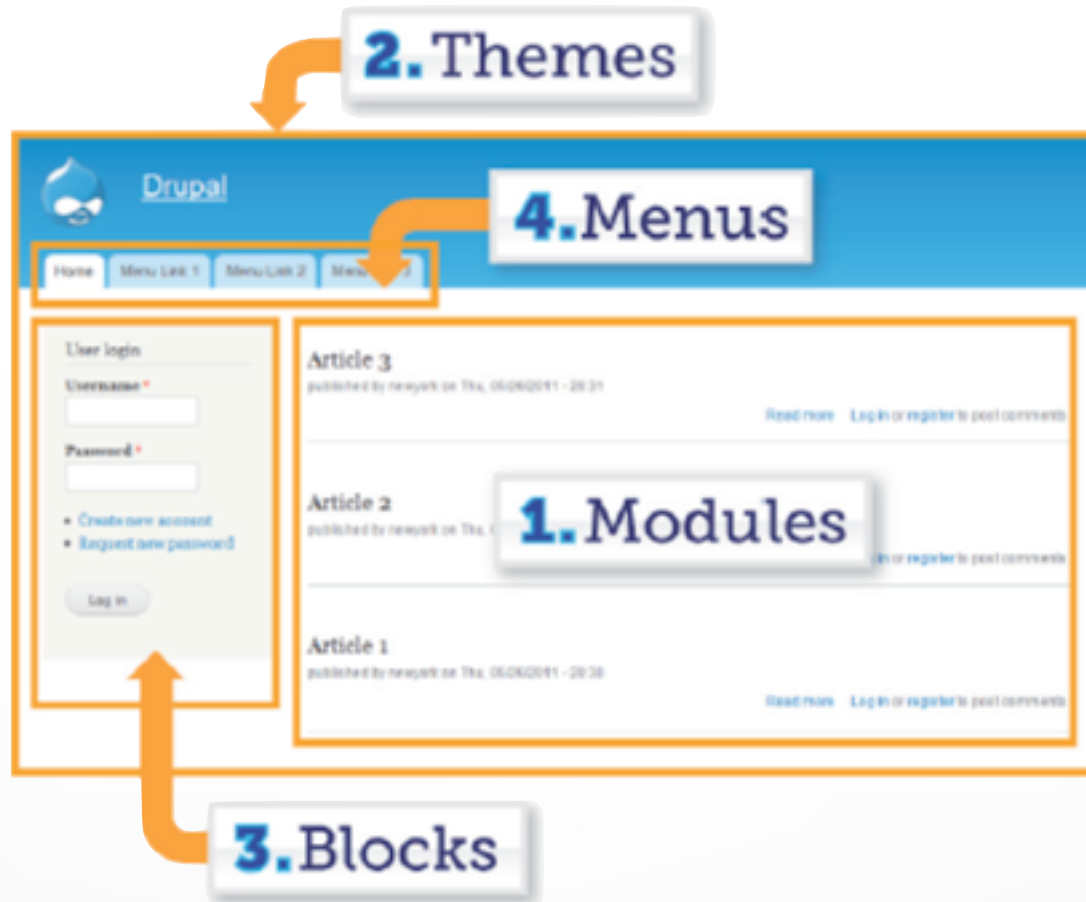


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Layout Recap



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Blocks



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Views Workflow



1) **Simple Views**

2) **Views**

1. Display

2. Format

3. Fields

4. Filter

5. Sort



Views Workflow

Displays

Page [+ Add](#) edit view name/description ▾

▾ **Page details**

Display name: Page view page ▾

TITLE Title: Latest Movies Page	PAGE SETTINGS Path: /latest-movies-page	▸ Advanced
FORMAT Format: Table Settings	Menu: No menu	
FIELDS add ▾	Access: Permission View published content	
Content: Title	HEADER add	
Content: Release Date (Release Date)	FOOTER add	
FILTER CRITERIA add ▾	PAGER	
Content: Published (Yes)	Use pager: Full Paged, 10 items	
Content: Type (= Movies)		
SORT CRITERIA add ▾		
Content: Release Date (desc)		

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Panels Workflow (Blocks with Brains)



- 1) Panels > Choose page
- 2) Basic settings
- 3) Choose the layout
- 4) Place the content



Taco Bell mascot: "Yo quiero mi own show"

Submitted by Anonymous on Thu, 10/11/2007 - 04:21

Entertainment

node #93 (story) - Erat laoreet premo premo hos validus. Lenis feugiat sed brevitat fere. Abluo abdo natu esse capto quadrum nostrud erat autem esca. Tation probo gilvus quae mos adipiscing jumentum paulatim vulputate.

Proprius vicis letalis esca ludus. Autem genitus nunc dolore pala saluto. Euismod natu populus saluto augue. Pala ea vulpes. Elit zelus zelus ex exerci similis genitus.



[Add new comment](#) [Read more](#)

What is this site?

This is a site primarily designed to demo a simple newspaper style site using Drupal with the modules Nodequeue and Panels. Click the about link in the primary nav for more information about this site.

You may log into this site as a demo administrator:
Username: demo
Password: demo

This site is reset every hour, so changes you make will not last. If you're mysteriously logged out, this is probably why.

World

Militant Belgian waffles take credit for chocolate explosion in Brussels; no injuries reported

Liechtenstein threatens Congo: "Get off our borders"

15 miners die in fake ID collapse in Euritania

Madagascar suddenly disappears; South African leader shows little interest

Rush on Tickle Me Elmo Doll causes 15 deaths in Qandahar, conspiracy theorists blamed

[more](#)

Politics

Republican ousted from party after suggesting foreign opinion might matter

Entertainment

"Cavemen", Susan Lucci slighted at emmies; dissed on 12 nominations
Taco Bell mascot: "Yo quiero mi own show"

"Dr. Phil" given 50 years after prescribing viagra

Tom Cruise marries, then devours Mandy Moore

Movie review: "Casablanca"; D- for predictable plot

Sports

Cubs win World Series; Jesus declines to return

Zombie Brett Favre still having fun in 93rd season with Packers

Tom Brady likes bacon; his illegitimate

Unsponsored links

[Messy NBS](#)

The news where liberals get mean and nasty!
www.messynbs.com

[Faux News](#)

Enter the no spin zone where what we tell you IS the news.
www.foxnews.com

[DNN](#)

If we can hammer the same news home five times an hour every hour, we will!
www.dnn.com

[I'll jeerya](#)

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User Workflow



- 1) Roles
- 2) Permissions
- 3) Users
- 4) Masquerade module to test user accounts



Things to Remember

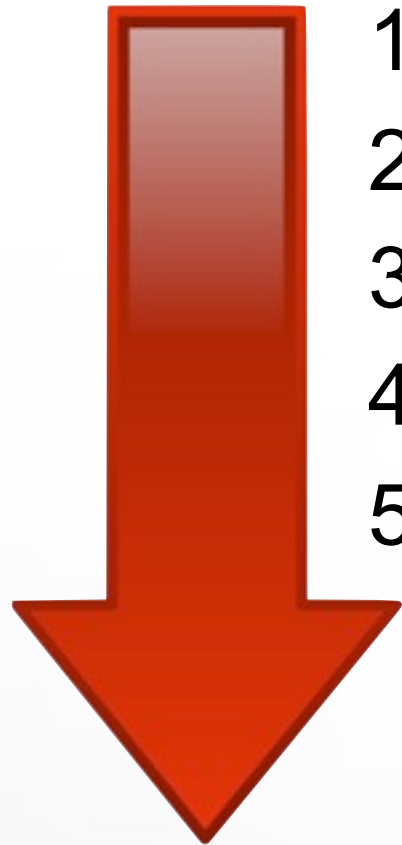


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Drupal Beginner Workflow



- 1) **Install** (4 ways)
- 2) **Create** (Content)
- 3) **Extend** (Modules)
- 4) **Design** (Views, Panels & Themes)
- 5) Practice, Practice, Practice
(OSTraining.com)

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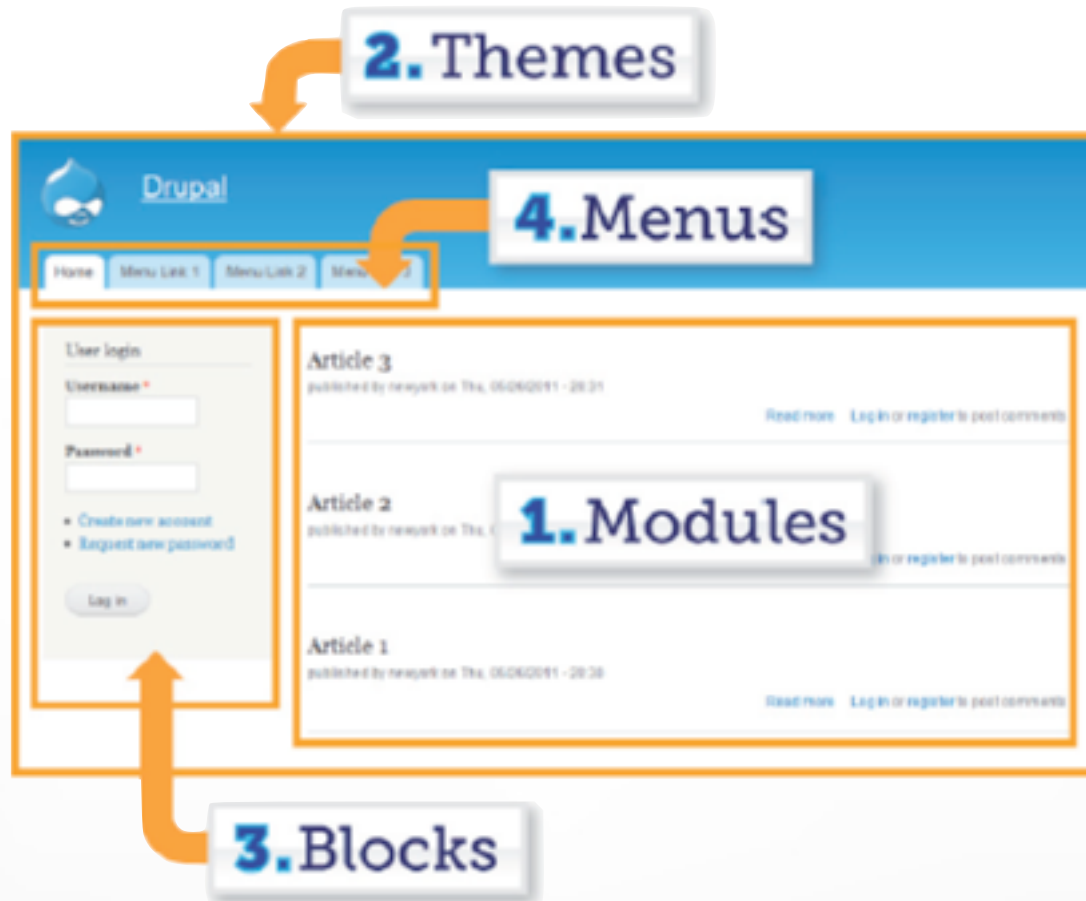
Content Workflow



- 1) **Content types**
- 2) **Fields** (if extra data needed)
- 3) **Taxonomy** (if categories needed)
 - Vocabulary
 - Terms
- 4) **Create Content**



Extend/Design Workflow



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Modules / Themes Workflow



- 1) Download
- 2) Install
- 3) Enable
- 4) Configure

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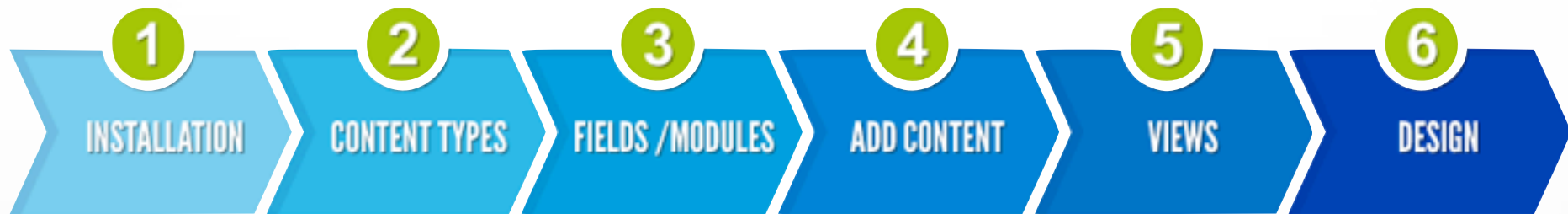
User Workflow



- 1) Roles
- 2) Permissions
- 3) Users
- 4) Masquerade module to test user accounts



Put it all together...



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Over to you ...



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Today's Guide/Slides

[http://www.ostraining.com/
drupal-beginner-guide.pdf](http://www.ostraining.com/drupal-beginner-guide.pdf)

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