



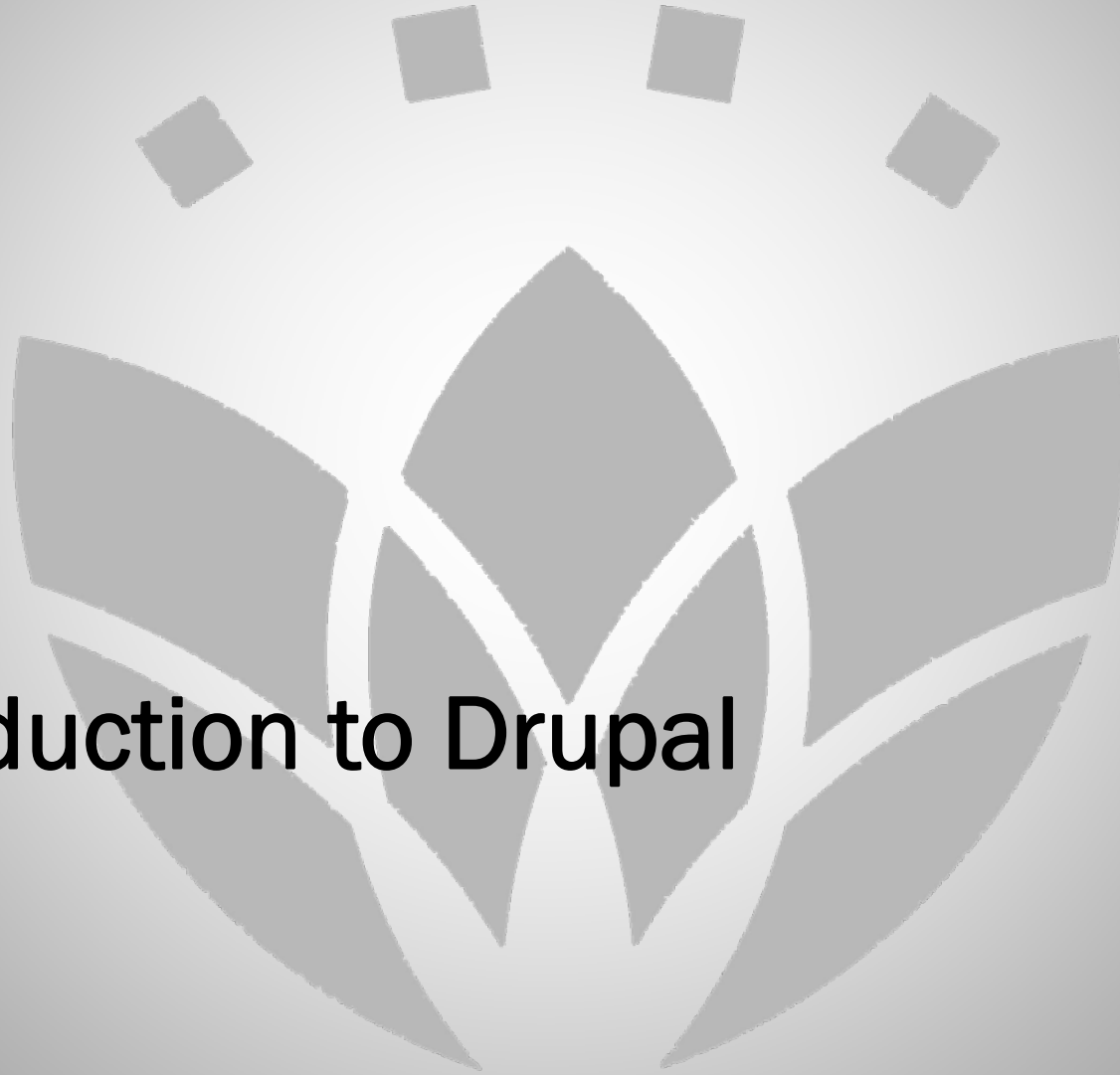
Drupal Demonstration



Heli Guy

*Digital Resource Management from Data to Knowledge,
21–23 July 2009, Durban, South Africa*





Part 1

Introduction to Drupal

*Digital Resource Management from Data to Knowledge,
21–23 July 2009, Durban, South Africa*



What is Drupal?



- ▶ Drupal is a free open source (FOSS) Content Management System (CMS)
 - Easy to publish, manage and organize a wide variety of content on a website.
 - Drupal offers a sophisticated programming interface for developers, but no programming skills are required for website installation and administration.

Free open source (FOSS)



- ▶ Non-proprietary
- ▶ Community of developers and support
 - Drupal is open-source software distributed under the [GPL](#) ("GNU General Public License") and is maintained and developed by a community of thousands of users and developers

*“Open source is a development methodology;
free software is a social movement.”*

Further reading:

- [Wikipedia - Free Software Foundation](#)
- [Wikipedia - Free software movement](#)
- [Wikipedia - Open source software](#)
- [Raymond, Eric S. 'The Cathedral and the Bazaar'](#)

Content Management System (CMS)



- ▶ computer application used to manage work flow needed to collaboratively create, edit, review, index, search, publish and archive various kinds of digital media and electronic text.
- ▶ simplify the publication of Web content to Web sites, in particular allowing content creators to submit content without requiring technical knowledge of HTML or the uploading of files.

Source: http://en.wikipedia.org/wiki/Content_management_system

Dynamic database-driven websites



► Sites are not static

- Logged in users (authenticated users) see different dynamically generated content
- Ease of editing and submitting new content means that we can perceive and create websites differently than we did a decade ago. (Content is not a fixed entity posted by an IT expert)
- We can be active participants instead of passive recipients of the internet

Drupal sites



- ▶ Community web portals
- ▶ Discussion sites
- ▶ Corporate web sites
- ▶ Intranet applications
- ▶ Personal web sites or blogs
- ▶ E-commerce applications
- ▶ Resource directories
- ▶ Social Networking sites
- ▶ Libraries
- ▶ Universities

Source: <http://drupal.org/about>

Drupal in action



- ▶ [The Onion](#)
- ▶ [The New York Observer](#)
- ▶ [MTV UK](#)
- ▶ [Recovery.org](#)
- ▶ [Amnesty International](#)
- ▶ [Amherst College](#)
- ▶ [Sadtu](#)
- ▶ [Abahlali](#)
- ▶ [Campbell Collections](#)

The Onion



mobile edition
A.V. CLUB DECIDER STORE PERSONALS AT THE AV CLUB AVG&A: WEDDING CEREMONIES SEARCH THE ONION

the ONION
America's Finest News Source

HOME VIDEO RADIO SPORTS POLITICS WORLD ECONOMY SCI/TECH ENTERTAINMENT OPINION LOCAL NEWS ARCHIVE

NEWSWIRE: Man Who Hasn't Left House In Days Peruses 'Missed Connections' July 20, 2009

Grandmother Classifies 79% Of Everything A Shame 07.18.09
SANDUSKY, OH—While most things to Gertrude Wharton are simply "a shame," other, more intense degrees include "a real shame," "a crying shame," and, worst, "an awful shame." MORE

Human Rights Group Campaigns To End Use Of Child Politicians In Africa 07.16.09

Recent Videos
• Obama Axes Pentagon Plan To Build Billion Dollar Tank In Shape Of Dragon
• New Live Poll Allows Pundits To Pander To Viewers In Real Time

Recent News
• Sports Going Through Slump 07.16.09
• Nation Descends Into Chaos As Throat Infection Throws Off Obama's Cadence 07.14.09
• Disillusioned FBI Launches Nationwide Hunt For Some Kind Of Truth 07.13.09

News In Brief
New Boyfriend Charming Pants Off Baskin-Robbins Staff
• Area Mom Adds Ankle Weights To Already Bizarre Workout Routine 07.16.09
• Man At Bar Clinging To Muted 'King Of Queens' Episode Like Life Preserver 07.15.09
• Researchers Quietly Chucking At Placebo Group 07.14.09

Radio
Fight On Top Of Moving Train Not Looking Good For Area Villain

American Voices
Plan B To Be Available As Generic
"Great. I can't tell you how many times I've wanted to prevent conception but have been dissuaded by Plan B's outrageous \$50 price tag."
• Census To Count Gay Marriages
• Anti-Smoking Drugs May Induce Suicide

Slideshow
How Do Drugs Cross The Border?

Mini

DUGG RECENT POPULAR FAXED
[audio] Fight On Top Of Moving Train Not Looking Good For Area Villain
Crane Operator Likes To Start Day With A Quick 360

The New York Observer



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Sheldon Silver
Andrew Wylie
Paul McCartney
Rupert Murdoch
Joe Stiglitz
More People >>

OBSERVERS
John Kobin
Joe Bruma

A Rom-Com By and For Dudes

Give Back That Galley!

Coney Island Pushback

Obama, From a Hotel Bar

Cronkite's Funeral Thursday, TV Tributes all Week Long *(The New York Times)*

Amazon Pulls Orwell Books From Kindles *(The New York Times)*

Paterson: Silverstein's WTC Plan 'Just Doesn't Make Any Sense' *(Daily News)*

A Photo Retrospective of the Late Dash Snow *(Epilot Later'd)*

Douglas Elliman Report: 91 Percent of June Apartment Contracts Under \$1 M. *(The Real Deal)*

The BIG BOARD
News for New Yorkers

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The Observer File


THE OBSERVER'S

MTV UK



 **.CO.UK**
BETA

The **Sony Ericsson** FanWalk to
the MTV EMAs 2009 in Berlin

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TV Guide

GO

MUSIC


The Killers Video Exclusive
Brandon and the boys unite with MTV against human trafficking...



YOU AND 99 ...
Sony Ericsson

NEWS


New 'New Moon' Still Released!
Take a look at the new New Moon picture featuring Jacob and Bella in a controversial embrace



Daniel Radcliffe Naked!
Pics of Radcliffe with his wand out have

MUSIC


Official UK Singles Chart
JLS look set to knock Cascada off the top-spot this weekend. Check out this week's full chart and watch all the official music videos here...



Prodigy Live at Rock AM Ring
They're arguably one of the best live acts in the world and you can watch them

SHOWS

Kerry Katona: What's The Problem?
Kerry decides to go on GMTV, but is afraid of the media backlash... Watch brand new clips from the show!



Watch MTV's Bravest Videos And Win Some Cash!

Digital Resource Management from Data to Knowledge, 21–23 July 2009, Durban, South Africa



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Recovery.org



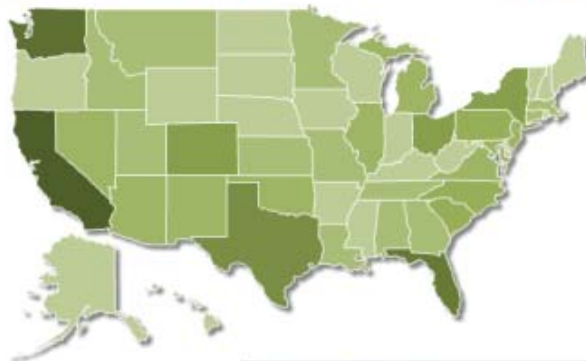
Onvia.com

Home For Businesses For Government For Taxpayers About Recovery.org

SHARE

Total Active Recovery Projects for United States

21,291 Projects Valued at \$71.74 Billion



Funding \$0 (in Billions) \$7.28

Recovery.gov

If you are looking for the Federal Government's Recovery website, click here.



Your Business

Don't Miss Out on Economic Recovery Projects.

Join Onvia's Economic Recovery Registry and get notified of all upcoming economic recovery projects - FREE!



REGISTER

Featured Projects

Recent Projects Most Expensive

RECOVERY - Universal Accessibility Modifications, Canyon Ferry Reservoir, Jo Bonner Campground, Lewis & Clark Fay Use Area, Goose Bay Campground, Chinamen's Gulch Campground, Montana

Location: Montana, United States, YELLOWSTONE (MT), LEWIS AND CLARK (MT), HELENA (MT), BILLINGS (MT), 59101

Estimated Value: \$250,000 to \$500,000

1 Comment(s)

Slurry Seal Road NCA Project#177

Location: California, United States, LOS ANGELES (CA), LONG BEACH (CA), 90822

What America is Saying

Most Discussed Most Worthwhile Most Unnecessary

Install Guidance Signs

Location: California, United States, SAN DIEGO (CA), SAN DIEGO (CA), 92101

Estimated Value: \$5,000,000

63 Comment(s)

Demolish Nuclear Facilities and Support Facilities, Remediate Waste Sites, Remediate Contaminated Groundwater

Location: Washington, United States, BENTON (WA), RICHLAND (WA), HANFORD WORKS (WA), 99352

Estimated Value: \$1,635,000,000

55 Comment(s)

Arria - Fta 5307 Miami Dade Transit Urban Formula Funding

Location: Florida, United States, MIAMI DADE (FL)

Recent News

Monday, 20 Jul 2009 12:04:33 PST
Pa. trails NJ, others in plans for stimulus spending - Philadelphia Inquirer

Sunday, 19 Jul 2009 06:18:57 PST
Obama's Betrayal of the W ... - Men's News Daily

Sunday, 19 Jul 2009 05:12:03 PST
Editorial: No reason to abandon the stimulus plan - Daily News Tribune

Sunday, 19 Jul 2009 01:40:58 PST
Official: Stimulus money could spur Pa. broadband - Daily Mail - Charleston

Recovery.org on Twitter

How AT&T gets stimulus funding:
<http://bit.ly/QV6nV> 1 day ago

Stimulus Watch: No-bid contracts mean higher costs <http://bit.ly/1u4z7T> 1 day ago



Amnesty International



AMNESTY INTERNATIONAL 

FOR MEDIA | LIBRARY | CAMPAIGNS

اللغة العربية | Français | Español

In your country:

HOME | WHO WE ARE | HOW YOU CAN HELP | LEARN ABOUT HUMAN RIGHTS | NEWS | STAY INFORMED

1

2

3

4

5

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DEMAND DIGNITY
What does Living in Dignity mean to you? Add your voice to the debate about poverty visit www.demanddignity.org

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ADD YOUR VOICE NOW

CHANGE WHAT YOU ARE

CAMPAIGN
Issue of
COUNTRY
Vote all

8787 TOTAL VOTES
VOTES NOW

News**Cambodian security forces forcibly evict 60 low-income families**
The families dismantled their homes after three years of government harassment and intimidation, with no choice but to accept inadequate compensation rather than have their homes demolished.**Human rights activist Natalia Estemirova murdered in Russia****Death in custody in France highlights police abuse accusations** **Good news****Palestinian prisoner released in Lebanon**
A Palestinian imprisoned for 15 years for a murder he has always denied committing was released on Monday**In focus****Human rights activist Natalia Estemirova murdered in Russia**
**Iran election unrest**
**HOW YOU CAN HELP****Donate** **Join** **Take Action** **HUMAN RIGHTS INFORMATION**By country By topic **SPOTLIGHT****Demand Dignity**
Add your voice against human rights abuses that keep people poor**Counter Terror with Justice**
Protecting human rights in the fight against terrorism**Abolish the death penalty**
Thousands of people around the world are waiting for governments to kill them.**Stop Violence Against Women**
Making rights real for women and girls

Amherst College





AMHERST COLLEGE

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Search: [GO](#)
[Find People](#) | [Offices & Departments](#)



THE PROSPECTIVE PERSPECTIVE

Follow the on- and off-campus lives of three students this summer as they blog about their experiences working for the Admission Office. [Tanika Yigil '10](#), [Daniel Bamba '11](#) and [Shenae Bell '11](#) offer insight on everything from getting into Amherst to where to find the best ice cream once you're here.

News & Events



Professor and Rhodes Scholar Team Up on Honduras Op-Ed

In a July 7 *Huffington Post* piece, political science's Javier Corrales and former student Daniel Altschuler '04 (left) discussed the ramifications of the country's recent coup. [More »](#)



History, Animated

The children's series *FETCH!* with *Ruff Ruffman* stopped by the Museum of Natural History to interview education coordinator Steve Sauter and film a segment for the upcoming fifth season. *Amherst* magazine's Emily Boutilier reports on the action. [More »](#)



Organization for Theoretical Physicists Finds a Home at Amherst

The Anacapa Society, a group promoting research in theoretical and computational physics at primarily undergraduate institutions, signed a letter of understanding with the college that established the Amherst campus as its official residence. [More »](#)



Gold for "Ghost Writer"

Amherst magazine won a CASE gold medal—beating out Columbia, Harvard Law and many others—for its 2008 feature "Ghost Writer," by Rand Richards Cooper '80. Read or re-read the article about the life and death of John Stringer '73. [More »](#)

QUICK LINKS

- [Athletics](#)
- [Calendar](#)
- [Campus Intranet](#)
- [Community Engagement](#)
- [Employment](#)
- [Give to Amherst](#)
- [Guide for Parents and Families](#)

DID YOU KNOW?

The average [financial aid](#) package provided by Amherst is \$37,564.

89% of Amherst classes have fewer than 30 students; the average class size is 17. [Learn more.](#)

Amherst students can participate in several [Five College programs](#), including African Studies, Dance and International Relations.

LIVES of
CONSEQUENCE

A CAMPAIGN FOR AMHERST

JOIN US



SADTU



South African Democratic Teachers' Union - SADTU

HOME LINKS NEWS CONTACT

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MAIN MENU

Home
What is SADTU
SADTU Governance
Membership
Constitution
Departments of SADTU
Contacts
Campaigns
Collective Agreements
SADTU Documents
SADTU Calendar

USER LOGIN

Username: *

Password: *

Login

Create new account

Request new password

SADTU E-VOICE

Stay informed on our latest news!

E-mail: *

Subscribe

Welcome to South African Democratic Teachers' Union (SADTU)



SADTU was founded in 1990 following successful teacher unity talks to establish a national unitary non-racial and non-sexist union of educators. Today the union's membership stands at 230,000 representing nearly two-thirds of South Africa's educators. SADTU is the largest union in the public service and the second largest union in the country.

Forged in the struggle against apartheid and Bantu education, SADTU is affiliated to the national labour federation, COSATU (Congress of South African Trade Unions) and as part of COSATU we participate fully in the Tripartite Alliance of COSATU, the ANC (African National Congress) and the SACP (South African Communist Party).

As a union of educational workers, our goals include the following:

- To fight for better remuneration and working conditions for educational workers
- To represent and promote the professional aspirations of educators
- To play a leading role in the struggle for education transformation to deliver free and equal quality public education for all.
- To participate in the struggle to deepen the NDR and for socialism
- In order to meet these goals, we have to constantly improve organisation and to conscientise and mobilise our members.

SADTU Press Statements

To read more about our latest Press Statements, [please click here to read latest news.](#)

SADTU Campaigns



EVENTS

July 2009

Mon	Tue	Wed	Thu	Fri	Sat	Sun
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

TRI - PARTITE NEWS

ANC

COSATU

SACP

POLL WHAT DO YOU THINK OF THE NEW SADTU SITE?

Looks Great

62%

Prefer the old site

4%

Could do with more work

34%

Total votes: 584

Older polls



DISA
DIGITAL INNOVATION
SOUTH AFRICA

Abahlali baseMjondolo



Abahlali baseMjondolo
Sekwanele!

[Introduction](#)[isiZulu](#)[Photos & Video](#)[Press](#)[University of AbM](#)[Support](#)[Contact](#)

Welcome to the Abahlali Website



Welcome to the Abahlali Website

Sawubona! Welcome to the online home of the Abahlali baseMjondolo, the South African shackdwellers' movement.

Journalists might be interested in following [these](#) links.

For a selection of articles written from within and on Abahlali baseMjondolo visit the [University of Abahlali baseMjondolo pages](#).

All Abahlali members are welcome to get a username and contribute to [Abahlali.Org](#)

Abahlali baseMjondolo, together with with Landless People's Movement (Gauteng), the Rural Network (KwaZulu-Natal) and the Western Cape Anti-Eviction Campaign, is part of the Poor People's Alliance - a network of radical poor people's movements.

March on Cape Town to Support the Macassar Village Occupation on 20 July 2009

Abahlali baseMjondolo is part
of the Poor People's Alliance

Other Sites from the Poor People's
Alliance



The City of Cape Town is Politicising Flood Aid & Failing to Deal with the Structural Issues

Submitted by Abahlali_3 on Thu, 2009-07-16 09:37 floods | Western Cape Anti-Eviction Campaign

Anti-Eviction Campaign Press Release
Thursday 16 July, 2009

More than ten Cape Flats informal settlements hardest hit by last week's floods did not receive any emergency assistance at all from the City of Cape Town or the Provincial Government. This include Tambo Square, Barcelona, New Rest and Gxa Gxa Square in the Gugulethu area. In addition to this, the city continues to ignore the plight of vulnerable backyard dwellers whose homes have been flooded.

Many AEC communities as well as communities other poor settlements are now in dire straights as a result of recent floods. In the weeks coming up, many more floods in these communities may be expected.

Recently Added Media



shacks to be demolished
in tin town.2



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SOUTH AFRICA

Campbell Collections





Campbell Collections

University of KwaZulu-Natal

[Site Map](#)
[Search Museum and Collections](#) | [UKZN iLink](#)

[KC Africana Library](#) | [WC Furniture and Pictures](#) | [Mashu Museum](#) | [Research Projects](#) | [Muckleneuk Tours](#) | [Staff Contact List](#)

Welcome Visitor!

If you wish to view the Historical Photographs or the Manuscript Inventory, please [login](#) or [create new account](#)

Announcements

- Our new address: 220 Gladys Mazibuko Road (formerly 220 Marriott Road)

User login

Username: *

Password: *

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

Campbell Collections

The Campbell Collections are housed in a neo-Cape Dutch style house, *Muckleneuk*, formerly the home of Natal sugar farmer and politician [Sir Marshall Campbell](#) (1848 - 1917). The Campbell Collections were established by Marshall's son William (1880 - 1962) and his daughter [Killie Campbell](#) (1881 - 1965). Killie Campbell, a well known africana collector, lived in *Muckleneuk* until her death in 1965 when her collections were bequeathed to the [University of Natal](#).



Shaka kaSenzangakhona Muckleneuk Killie and William Campbell

Campbell Collections holds major resources for research into the history and culture of southern Africa and KwaZulu-Natal.

The Collections comprise of:

- [Killie Campbell Africana Library](#) (KCAL)

Installation requirements

PHP-triad




- ▶ Web server (Apache)
- ▶ Database (MySQL)
- ▶ PHP




Drupal.org





Drupal

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DRUPALCON
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1st-5th
paris2009.drupalcon.org

Drupal.org is the official website of **Drupal**, an open source **content management platform**.



Equipped with a powerful blend of features, Drupal supports a variety of websites ranging from personal weblogs to large community-driven websites.

- About Drupal
- Features
- Hosting
- Events
- Screenshots
- Demo
- Paid services
- Jobs






Download

Latest release:

-  **Drupal 6.13**
-  Drupal 5.19

Contributions:

-  **Modules**
-  **Themes**
-  **Translations**

Drupal 6.13 and 5.19 released

Drupal Security Team · July 1, 2009 · 20:18

News and announcements · Drupal 5.x · Drupal 6.x · Drupal News

Drupal 6.13 and 5.19, maintenance releases fixing problems reported using the bug tracking system, as well as **critical security vulnerabilities**, are now available for download. Both releases fix some other smaller issues as well.

Upgrading your existing Drupal 5 and 6 sites is strongly recommended. There are no new features in these releases. For more information about the Drupal 6.x release series, consult the [Drupal 6.0 release announcement](#), more information on the 5.x releases can be found in [Drupal 5.0 release announcement](#).

[Download Drupal 6.13](#)
[Download Drupal 5.19](#)

[Read more](#)

Pre-Freeze Code Testing Sprint - Los Angeles - August 15-16, 2009

highermath · July 15, 2009 · 16:45

News and announcements · Drupal 7.x

Code freeze begins September 1st. During this period, we fix bugs and when Drupal 7 is stable, we release. In the past, we have done manual testing. This time we have an automated testing framework and already a large number of tests. In an ideal world, we would only release when all code is touched by tests. While this won't guarantee that Drupal will be bug free, every test contributes to the overall quality of Drupal.

Two weeks before the code freeze, we will gather in Los Angeles to write tests. This will take us into the darker corners of core, so we also get the chance to fix bugs and, because this precedes the code freeze, we have greater freedom in how to fix them.

Since this sprint is so close to the code freeze, it's an excellent time to raise the test coverage ratio as there will be little new development in the final two weeks.

Please join us! Go to the sprint sign-up page at <http://groups.drupal.org/node/22652>

Food, beverages, power, IP and chocolate will be provided by our sponsors, [Causecast](#) and the [The Cherry Hill Company](#).

[6 comments](#) · [Read more](#)

User login

Username: *

Password: *

- Create new account
- Request new password

Contributor links

- Community initiatives
- Queues
 - My issues
 - 358 Pending bugs (D7)
 - 325 Critical issues (D7)
 - 1639 Patch queue (D7)
 - 201 Patches to review (D7)
 - Performance issues (D7)
 - Usability issues (D7)
 - Fields in Core issues (D7)
- Play patch bingo!
 - Drupal core
 - Contributions
- Play bug bingo!
 - Drupal core
 - Contributions
- Mailing list archives
- Drupal.org webmasters

Digital Resource Management from Data to Knowledge, 21–23 July 2009, Durban, South Africa



Download statistics



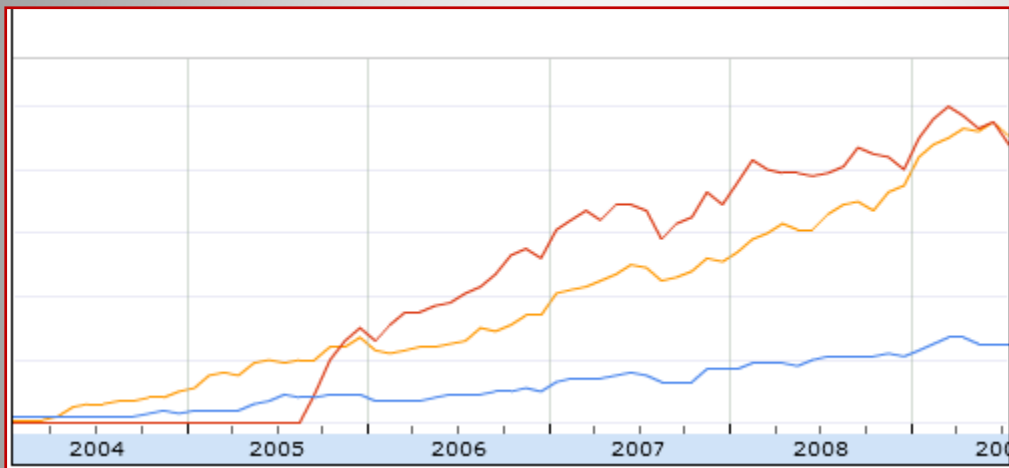
- ▶ From July 2007 to June 2008, Drupal core was downloaded more than 1.4 million times
- ▶ The year before, from July 2006 to June 2007, Drupal core was downloaded 620,000 times
- ▶ The number of downloads doubled in a year

Source: <http://buytaert.net/drupal-download-statistics-2008>

Google Insights



Web Search Volume: drupal vs. joomla vs. wordpress
Worldwide, 2004 - present



Totals		?
drupal	12	
joomla	44	
wordpress	37	

Source: <http://www.google.com/insights/>

What makes Drupal special?

Drupal Taxonomy: the power to organize and reorganize



The key difference that distinguishes Drupal from traditional CMS is Drupal's system for classifying content – known as taxonomy and implemented in the core Taxonomy module.

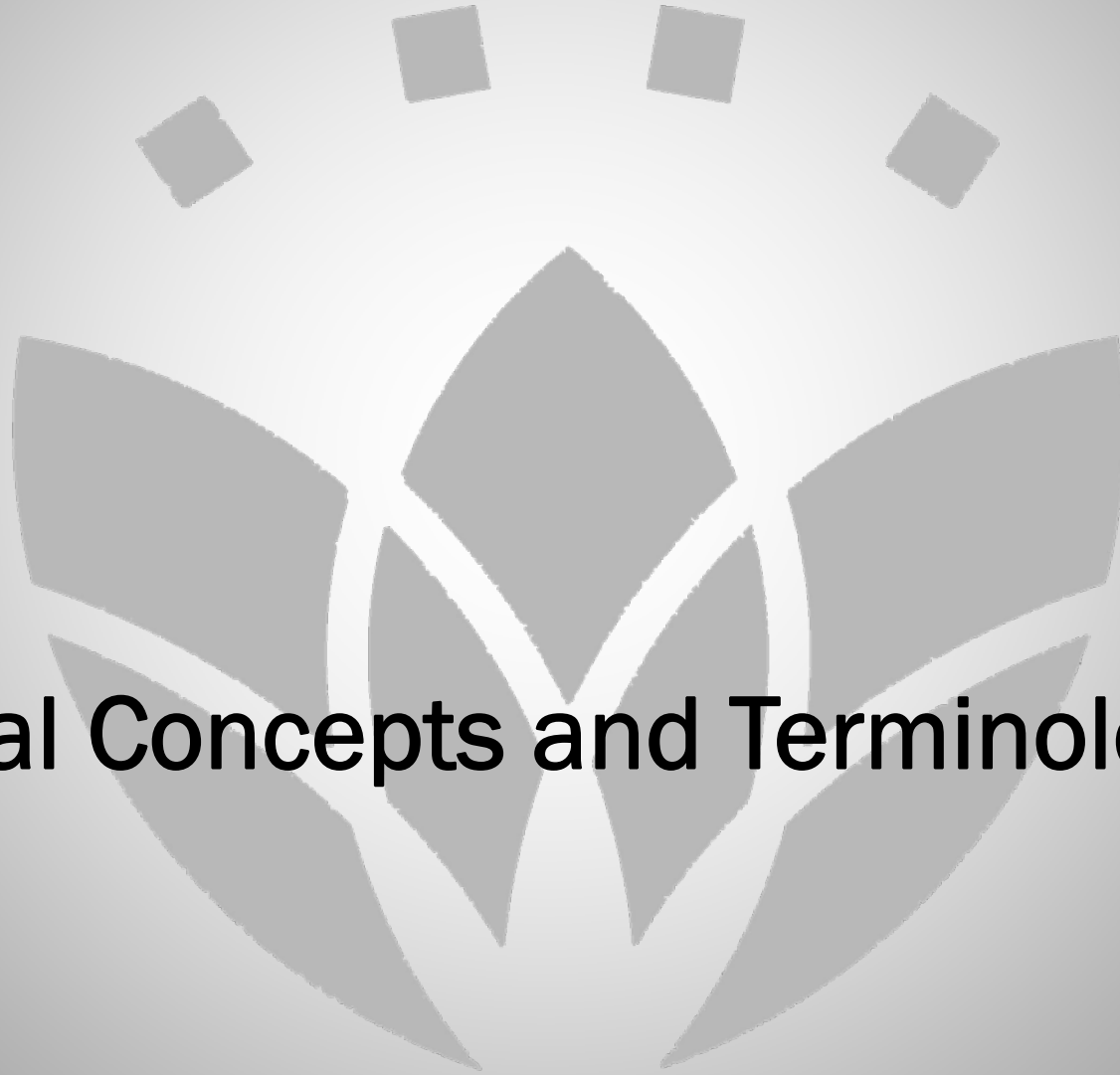
- You can define your own vocabularies (groups of taxonomy terms), and add terms to each vocabulary. Vocabularies can be flat or hierarchical, can allow single or multiple selection, and can also be "free tagging"
- Content in your site can be grouped into categories, tagged, or classified in any way you choose

Drupal's dynamic taxonomy management module empowers non-technical users to define and change the structure of their websites

Source: <http://drupal.org/node/19828>

Source: <http://digitalsolutions.ph/couchkamotereviews/newCMS>





Part 2

Drupal Concepts and Terminology

*Digital Resource Management from Data to Knowledge,
21–23 July 2009, Durban, South Africa*



Node



A node in Drupal is the generic term for a piece of content on your web site.

► Some examples of nodes:

- Page content type
- Discussion topics in forums
- Entries in blogs
- News article stories

Source: <http://drupal.org/node/19828>

Module



- ▶ A module is software (code) that extends Drupal features and/or functionality.
- ▶ Core modules are those included with the main download of Drupal, and you can turn on their functionality without installing additional software.
- ▶ Contributed modules are downloaded from the [Modules download section of drupal.org](http://drupal.org/modules), and installed within your Drupal installation.
- ▶ You can also create your own modules; this requires a thorough understanding of Drupal, PHP programming, and Drupal's module API.

Source: <http://drupal.org/node/19828>

Blocks and Regions



- ▶ Pages are laid out in regions, which usually include the header, footer, sidebars, and main content.
- ▶ Blocks are chunks of information that are displayed in the regions of your site's pages. Blocks can take the form of menus (which are concerned with site navigation), the output from modules (e.g., tagadelic), or dynamic and static chunks of information that you've created yourself (e.g., a list of upcoming events).

Menus



- ▶ There are three standard menus in Drupal: Primary Links, Secondary Links, and Navigation.
 - Navigation is the catch-all menu that contains your administration menus.
 - Primary and Secondary links are built by site administrators, and displayed automatically in the page header of many themes
 - You can create custom menus, and menu items and display them by enabling their blocks.
- ▶ Menu items will only be shown to a visitor if they have the rights to view the page it links to; e.g., the admin menu item is not shown to visitors who are not logged in.


Source: <http://drupal.org/node/19828>

Internet studies 201

Menus



Navigation menu displayed in Primary links



Heli's Newspaper
Internet Studies 201

[My account](#) | [Create content](#) | [Administer](#) | [Log out](#)

[Economic](#)
[Entertainment](#)
[Health](#)
[Politics](#)
[Religion](#)
[World News](#)

Header Region

Hi admin, welcome back.

Left sidebar

MK warns Zille to shut up
2009-05-14 16:12

Man kills wife in front of Children
2009-05-13 21:30

Green light for Botha's career
2009-05-13 21:30


Malema needs to apologise
2009-05-13 21:30

[more](#)


Recent comments

- Zille: gender equity policy "a fig leaf"
2 weeks 4 days ago
- Media 'hunting in a pack', says Zille
2 weeks 4 days ago

Student Newspaers



The Diamondback



Student Life


Jacob Zuma

If you are looking at this page you will have noticed that I have used Views to over-ride the default taxonomy display (which as we know is a teaser list ordered by post date). It is now a Table View displaying selected fields. Because the same View is used for all Taxonomy terms (regardless of node type) I have had to remove all Field Labels.

MK warns Zille to shut up	FORMER ANC military operatives have threatened to make the Western Cape "ungovernable" if its premier Helen Zille continues "insulting" newly...	2009-05-14 16:12	Sapa	Staff Reporters
Zille complaining about the all-male MECs in the Western Cape	The newly elected President, Jacob Zuma chose his cabinet and MECs on the weekend of 09 May. He did very well indeed but Democratic Alliance...	2009-05-13 21:30	Zille	Helen
Apologies due for Zille	Political delegates feel that now is the time for the Democratic Alliance (D.A.) leader to apologize. To get out of these hash times, Zille has...	2009-05-13 21:30	Helen	Zille
our new president	for some it was more exciting than others when president zuma was made our president. Zuma showed some that it doesn't matter where you come from...	2009-05-13 21:30	gareth	spouse
Star Trek hits box offices	He s show optimism in the country since Zuma's	21:30	Seshni	Padayachee

Content Region

Right sidebar



heli's beetle for sale

Classified Tags

Sports equipment
Food
Accommodation
Services
Transport
Computers & accessories
Audiovisual
kit
Clubs & Societies
Books
Clothing
Jobs

Recent Ads

- Life needed urgently
2009-05-14 14:05
- And again!
2009-04-24 09:26
- Newest ad!
2009-04-23 23:09
- Food for Students at Res...
2009-04-22 20:04

[more](#)

Footer Region

User, Permission, Role



- ▶ Every visitor to your site is a user. Non-anonymous users have a user name and an email address.
- ▶ The user account you create when you install Drupal, is special: this user has permission to do everything on the site.
- ▶ Other users on your site can be assigned permissions via roles. To do this you create a role, assign permissions to that role, finally, you add certain users on your site to the new role. This means that when those users are logged in, Drupal will let them do the actions you gave that role permission to do.
- ▶ Drupal permissions are flexible – you can assign permission for any task to any role.

Source: <http://drupal.org/node/19828>

Campbell Collections (anonymous)





Campbell Collections

University of KwaZulu-Natal

[Site Map](#)
[Search Museum and Collections](#) | [UKZN iLink](#)

[KC Africana Library](#) | [WC Furniture and Pictures](#) | [Mashu Museum](#) | [Research Projects](#) | [Muckleneuk Tours](#) | [Staff Contact List](#)

Welcome Visitor!

If you wish to view the Historical Photographs or the Manuscript Inventory, please [login](#) or [create new account](#)

Announcements

- Our new address: 220 Gladys Mazibuko Road (formerly 220 Marriott Road)

User login

Username: *

Password: *

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

Campbell Collections

The Campbell Collections are housed in a neo-Cape Dutch style house, *Muckleneuk*, formerly the home of Natal sugar farmer and politician [Sir Marshall Campbell](#) (1848 - 1917). The Campbell Collections were established by Marshall's son William (1880 - 1962) and his daughter [Killie Campbell](#) (1881 - 1965). Killie Campbell, a well known africana collector, lived in *Muckleneuk* until her death in 1965 when her collections were bequeathed to the [University of Natal](#).



Shaka kaSenzangakhona Muckleneuk Killie and William Campbell


Campbell Collections holds major resources for research into the history and culture of southern Africa and KwaZulu-Natal.

The Collections comprise of:

- [Killie Campbell Africana Library](#) (KCAL)

Campbell Collections (user - gibsons)





Campbell Collections


University of KwaZulu-Natal

[Album Browser](#) | [Manuscript Inventory](#) | [Site Map](#)
[Search Museum and Collections](#) | [UKZN iLink](#)

[KC Africana Library](#) | [WC Furniture and Pictures](#) | [Mashu Museum](#) | [Research Projects](#) | [Muckleneuk Tours](#) | [Staff Contact List](#)

Welcome gibsons!

Random Image



Announcements

- Our new address: 220 Gladys Mazibuko Road (formerly 220 Marriott Road)

gibsons

- categories
- content
- menus
- content types
- users
- create content
- my account
- my blog
- log out

Who's new

Paul Hynes
anne clarkson
Stuart Clark
asteensland
janetjefferies

DVDs




- DVD Index Browser

Work Flow

Campbell Collections

[view](#) [edit](#)

The Campbell Collections are housed in a neo-Cape Dutch style house, Muckleneuk, formerly the home of Natal sugar farmer and politician [Sir Marshall Campbell](#) (1848 - 1917). The Campbell Collections were established by Marshall's son William (1880 - 1962) and his daughter [Killie Campbell](#) (1881 - 1965). Killie Campbell, a well known africana collector, lived in Muckleneuk until her death in 1965 when her collections were bequeathed to the University of Natal.



[Shaka kaSenzangakhona](#) [Muckleneuk](#) [Killie and William Campbell](#)

Campbell Collections holds major resources for research into the history and culture of southern Africa and KwaZulu-Natal.

The Collections comprise of:

- [Killie Campbell Africana Library \(KCAL\)](#)
- [William Campbell Furniture and Picture Collection \(WCFP\)](#)
- [The Mashu Museum of Ethnology and the Jo Thorpe Collection \(MM\)](#)

[Muckleneuk Tours](#)

[Muckleneuk Garden](#)

[Muckleneuk Tours](#)

[printer-friendly version](#)

Campbell Collections (edit tab)





Campbell Collections

University of KwaZulu-Natal

[Album Browser](#) | [Manuscript Inventory](#) | [Site Map](#)
[Search Museum and Collections](#) | [UKZN iLink](#)

[KC Africana Library](#) ▾ [WC Furniture and Pictures](#) ▾ [Mashu Museum](#) ▾ [Research Projects](#) ▾ [Muckleneuk Tours](#) ▾ [Staff Contact List](#)

Random Image



Announcements

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gibsons

- [categories](#)
- [content](#)
- [menus](#)
- [content types](#)
- [users](#)
- [create content](#)
- [my account](#)
- [my blog](#)
- [log out](#)

Who's new

[Paul Hynes](#)

[Home](#)
c58-122



Original Title
no title

Description
Depicts Zulu woman with scarification on her back

Coverage
Natal and Zululand c1882

Date
n.d.

Source
Album C58/001-166 BRN 310800 Photographs of Natal and Zululand by Kisch 968.404 Neg Sh 148 D1 KCB 2535

Author/Creator
Kisch, B

Keywords/Subject
Portraits · Scarification · Zulu women

c58-122

Theme




- ▶ The theme controls how your site is displayed, including the graphic look, layout, and colours.
- ▶ A theme consists of one or more PHP files that define the HTML output of your site's pages, along with one or more CSS files that define the layout, fonts, colours, and other styles.

Source: <http://drupal.org/node/19828>

SAMAP theme 1





HYMAP (109) | Ballantine (1054) | Brauninger (65) | ILAM (10551) | UKZN (234)

SAMAP South African Music Archive Project

[BROWSE COLLECTIONS](#) | [MY ACCOUNT](#) | [SEARCH](#) | [METADATA QC](#) | [CREATE CONTENT](#) | [ADMINISTER](#) | [LOG OUT](#)

Random Audio

ILAM | Qom 'Utshela

Genre: Southern African music
Language: Zulu
People: Dhlomo's Double Quartette
Location: Location not specified
Keywords: Drum, Guitar, Folk song, Indigenous music

[more](#)

Tag clouds

People Place Keywords Language

Chopi Bom Amberon Bemba
Nyamwezi Sukuma
Zulu Shangaan Hugh
Tracey Haya Bantu Glee
Singers George Sibanda Nyanja

[more tags](#)

Mpenzi wangu kusafiri gani

[View](#) [Edit](#)

ILAM Marimba Rattle Xylophone AC115! Basket rattle East African music Folk music Humorous song
Indigenous music malimba Moshi Ufunguo Mpenzi wangu kusafiri gani Nguja Swahili Tabora Tanganyika
Tanzania


Audio	
Artist	Moshi Ufunguo (Composer/Performer)
Contributor	Contributor not specified
Publisher	
Date	19500717
Genre	East African music
Language	Nguja Swahili
Keywords	Marimba Rattle Xylophone Basket rattle Folk music Humorous song Indigenous music malimba
Location	Tabora Tanganyika Tanzania
Source	Source: D4B5 Master number: 5094 Master number: 339 Tape number: 72X 78 RPM acetate record 00:02:31
Format	Sound Forge v.8 Technics SP - 10MKII direct drive turntable Vestax BDT - 2500 belt-drive turntable Studer Revox interface SP 10-8
Relation	AC115*
Digital Rights	©International Library of African Music

Related terms

- ILAM
- Moshi Ufunguo
- East African music
- Tanzania
- Tanganyika
- Tabora
- Swahili
- Nguja
- Xylophone
- Marimba
- Rattle
- Indigenous music
- Folk music
- Humorous song
- malimba
- Basket rattle

SAMAP theme 1






HYMAP (109) | Ballantine (1054) | Brauning (65) | ILAM (10551) | UKZN (234)

SAMAP South African Music Archive Project

BROWSE COLLECTIONS | MY ACCOUNT | SEARCH | METADATA QC | CREATE CONTENT | ADMINISTER | LOG OUT

Random Audio
ILAM | Mpenzi wangu...

Genre: East African music
Language: Nguja, Swahili
People: Moshi Ufunguo
Location: Tabora, Tanganyika, Tanzania
Keywords: Marimba, Rattle, Xylophone, Basket rattle, Folk music, Humorous song, Indigenous music, malimba
[more](#)

Tag clouds











People | Place | Keywords | Language

Zulu Born Amberon George
Sibanda Chapi sukuma
Bemba Nyanja Haya
Shangaan Hugh
Tracey Nyamwezi
Bantu Glee Singers
[more tags](#)


Home » Browse Collections

All Collections | Ballantine | Brauning | HYMAP | ILAM | Trauneck | UKZN

People


Title	Audio	Collection	People
A ngi se ma luvalo		UKZN	Ngwane,Matthews John
A plea for Africa		UKZN	Hope Fountain Native Girls Choir
A sibatele ngo tuli		UKZN	Ngwane,Matthews John
Abatwana Bakwa Zulu		UKZN	Bantu Glee Singers
Abepi amampondo		UKZN	Zulu Minstrel
Afrikaans wiegelieljie (lullaby)		UKZN	Steyn,Betty
Amadevu		UKZN	Bantu Glee Singers
Amafuto mkovu		UKZN	Amanzimtoti Zulu Choir
Amagundane ehlez' ebandhlala lawo		UKZN	Stuart,James
Amtambo amhlophe		UKZN	Bantu Glee Singers

1 2 3 4 5 6 7 8 9 ... next last »



SAMAP theme 2





South African Music Archive Project

HYMAP (109) | Ballantine (1054) | Brauning (85) | ILAM (10551) | UKZN (234)

[Browse Collections](#) | [My account](#) | [Search](#) | [metadata QC](#) | [Create content](#) | [Administer](#) | [Log out](#)

Random Audio

ILAM | Atenderezabwe

Genre: East African music
 Language: Ganda
 People: Eriya Kaiza, Namirembe Cathedral Choir
 Location: Kampala, Uganda
 Keywords: Benedictus

[more](#)

Tag clouds

[People](#) | [Place](#) | [Keywords](#) | [Language](#)

Bantu Glee Singers
 Haya Bemba
 Shangaan Bom Ambergon
 Sukuma
 Nyanja
 Zulu
 Nyamwezi
 Chopi
 Hugh Tracey
 George Sibanda

[more tags](#)

[All Collections](#) | [Ballantine](#) | [Brauning](#) | [HYMAP](#) | [ILAM](#) | [Trauneck](#) | [UKZN](#)

People

Place

Language


Keywords

[Apply](#)

Title	Audio	Collection	People	Genre	Keywords	Language	Location	Term image
"ECO" Samba		ILAM	Badi, M.N., ECO (East Coast Orchestra) African Band, Mahommad Ngala Badi	East African music	Clarinet, Guitar, Rattle, Saxophone, trumpet, Dance Band, Dance music, Orchestra, Percussion, Samba	Swahili	Kenya, Mombasa	ILAM
"Kyrie eleison" from Mass		ILAM	Mabothoana, E.G., St. Cecilia's Choir Roma Mission	Southern African music	Indigenous music, Mass	Latin	Basutoland, Lesotho, Roma Mission	ILAM
"Mundino" movement (from Ngodo of Cabo Wukwane)		ILAM	Chimele Zandamela, Chimele Zandomela, Chopi	Southern African music	Rattle, Xylophone, Dance music, Orchestra	Chopi, Ndonge	Mozambique	ILAM
"Mweniso" movement: O wayiya Kosa		ILAM	Chopi, Maposi, T., Teni Maposi	Southern African music	Rattle, Xylophone, Dance song, Ngobo	Chopi	South Africa	ILAM
"Mzeno" movement (from Ngodo of Cabo Wukwane)		ILAM	Chimele Zandamela, Chimele Zandomela, Chopi	Southern African music	Rattle, Xylophone, Dance music, Orchestra	Chopi, Ndonge	Mozambique	ILAM
"The Click song"		ILAM	Miriam Makeba	Southern African music	Guitar, Click song, Folk music, Indigenous music, Vocals	Xhosa	Ciskei, Eastern cape, Republic of South Africa, South Africa, Transkei	ILAM
				Southern	Guitar, Click song,		Ciskei, Eastern cape, Republic of	

SAMAP theme 3





South African Music Archive Project

HYMAP (109) Ballantine (1054) Brauning (85) ILAM (10551) UKZN (234)

Home » Browse Collections











Search this site:

admin


- Browse Collections
 - ILAM
 - HYMAP
 - Ballantine
 - Brauning
 - Traunek
- My account
- Search
- metadata QC
- Create content
 - Audio
 - Page
 - Story
- Administer
 - Content management
 - Comments
 - Content
 - Content templates
 - Content types
 - Import content
 - Mass tag
 - Post settings
 - RSS publishing
 - Taxonomy
 - Site building
 - Blocks

All Collections Ballantine Brauning HYMAP ILAM Traunek **UKZN**

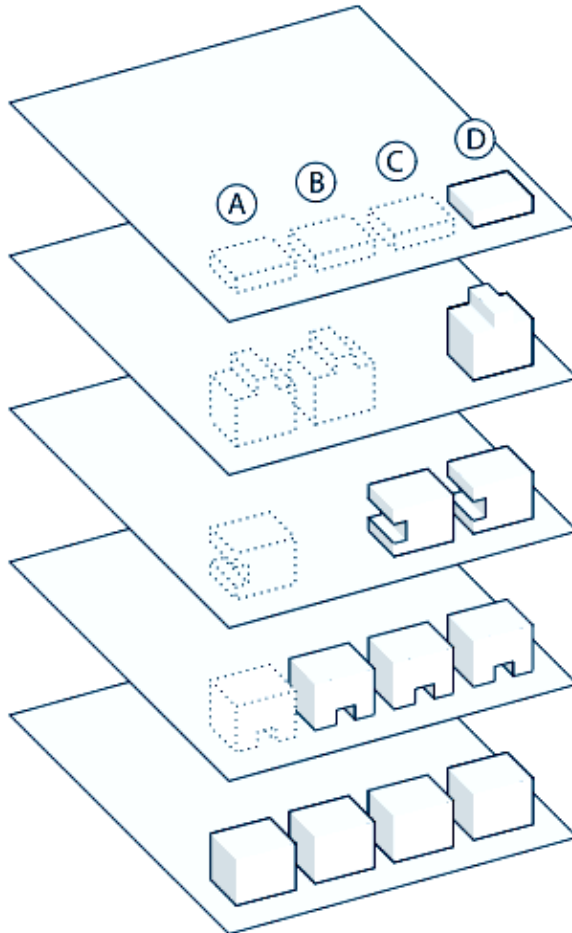
People

Title	Audio	Collection	People
A ngi se ma luvalo		UKZN	Ngwane,Matthews John
A plea for Africa		UKZN	Hope Fountain Native Girls Choir
A sibatele ngo tuli		UKZN	Ngwane,Matthews John
Abatwana Bakwa Zulu		UKZN	Bantu Glee Singers
Abepi amampondo		UKZN	Zulu Minstrel
Afrikaans wiegelielidje (lullaby)		UKZN	Steyn,Betty
Amadevu		UKZN	Bantu Glee Singers
Amafuto mkovu		UKZN	Amanzimtoti Zulu Choir
Amagundane ehlez' ebandhlala lawo		UKZN	Stuart,James
Amtambo amhlophe		UKZN	Bantu Glee Singers

1 2 3 4 5 6 7 8 9 ... next > last >



Drupal flow



5. Template

4. User Permissions

3. Blocks & Menus

2. Modules


1. Data (Nodes etc)

Source: <http://drupal.org/getting-started/before/overview>

Internet studies 201

Regions and blocks: Tagadelic





Heli's Newspaper

Internet Studies 201

[My account](#) | [Create content](#) | [Administer](#) | [Log out](#)

[Economic](#) | [Entertainment](#) | [Health](#) | [Politics](#) | [Religion](#) | [South Africa](#) | [Sports](#) | [Technology](#) | [UKZN News](#) | [World News](#)

Hi admin, welcome back.
Your account | [Sign out](#)

Recent Headlines

MK warns Zille to shut up
2009-05-14 16:12
Man kills wife in front of Children
2009-05-13 21:30
Green light for Botha's career
2009-05-13 21:30
Malema needs to apologise
2009-05-13 21:30

[more](#)

Recent comments

- Zille: gender equity policy "a fig leaf"
2 weeks 4 days ago
- Media 'hunting in a pack', says Zille
2 weeks 4 days ago

Student Newspaers


The Diamondback
Student Life

Jacob Zuma

If you are looking at this page you will have noticed that I have used Views to over-ride the default taxonomy display (which as we know is a teaser list ordered by post date). It is now a Table View displaying selected fields. Because the same View is used for all Taxonomy terms (regardless of node type) I have had to remove all Field Labels.

MK warns Zille to shut up	FORMER ANC military operatives have threatened to make the Western Cape "ungovernable" if its premier Helen Zille continues "insulting" newly...	2009-05-14 16:12	Sapa	Staff Reporters
Zille complaining about the all-male MECs in the Western Cape	The newly elected President, Jacob Zuma chose his cabinet and MECs on the weekend of 09 May. He did very well indeed but Democratic Alliance...	2009-05-13 21:30	Zille	Helen
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our new president	for some it was more exciting than others when president zuma was made our president. Zuma showed some that it doesn't matter where you come from...	2009-05-13 21:30	gareth	spouse
Star Trek hits box offices	He said he made up his mind to raise the shower after experiencing the mood of optimism in the country since Zuma's	2009-05-13 21:30	Seshni	Padayachee

Random Ad



heli's beetle for sale

Classified Tags

Sports equipment Food
Accommodation Services
Transport Computers & accessories
Audiovisual kit Clubs & Societies Books
Clothing Jobs

Recent Ads

- Life needed urgently
2009-05-14 14:05
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2009-04-24 09:26
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2009-04-23 23:09
- Food for Students at Res...
2009-04-22 20:04

[more](#)

Tag cloud generated by the Tagadelic module displayed in a block in the Right sidebar Region



DISA
DIGITAL INNOVATION
SOUTH AFRICA

Database



- ▶ Drupal stores information in a database; each type of information has its own database table.

For instance:

- The basic information about the nodes of your site are stored in the Node table
 - Comments and Users also have their own database tables
 - Roles, Permissions, and other settings are also stored in database tables.
 - Many modules their own tables to the database
- ▶ Drupal users (including administrators) need never interact with the database directly.

Source: <http://drupal.org/node/19828>

Taxonomy?



- ▶ Drupal's system for classifying content, is known as taxonomy and is implemented in the core Taxonomy module
- ▶ You can define your own vocabularies (groups of taxonomy terms), and add terms to each vocabulary. Vocabularies can be flat or hierarchical, can allow single or multiple selection, and can also be "free tagging" (meaning that when creating or editing content, you can add new terms on the fly)
- ▶ Each vocabulary can then be attached to one or more content types, and in this way, nodes on your site can be grouped into categories, tagged, or classified in any way you choose

Source: <http://drupal.org/node/19828>

Internet studies 201

Student newspaper front page



Taxonomy terms in the Main News multiple select vocabulary for the 'News' content type

A taxonomy term in the Keywords freetagging vocabulary for the 'News' content type


Internet studies 201

Jacob Zuma taxonomy term



Taxonomy terms in the Main News multiple select vocabulary for the 'News' content type

A taxonomy term in the Keywords free tagging vocabulary for the 'News' content type



Heli's Newspaper

Internet Studies 201

My account | Create account

[Economic](#)
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[Health](#)
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[Religion](#)
[South Africa](#)
[Sports](#)
[Technology](#)
[UKZN News](#)
[World News](#)

Hi admin, welcome back. Your account | Sign out

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[more](#)

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2 weeks 4 days ago
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2 weeks 4 days ago

Student Newspaers

The Diamondback

Student Life

If you are looking at this page you will have seen a list of news items (which as we know is a teaser list ordered by date). It is now a Table View displaying selected news items (of the 'node type') I have had to remove all fields.

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[more](#)



Part 3

Concluding comments

*Digital Resource Management from Data to Knowledge,
21–23 July 2009, Durban, South Africa*



Paradigm shift?

Rapid reorganization and dynamic taxonomy management



Drupal's Taxonomy module allows administrators to organize and reorganize content easily.

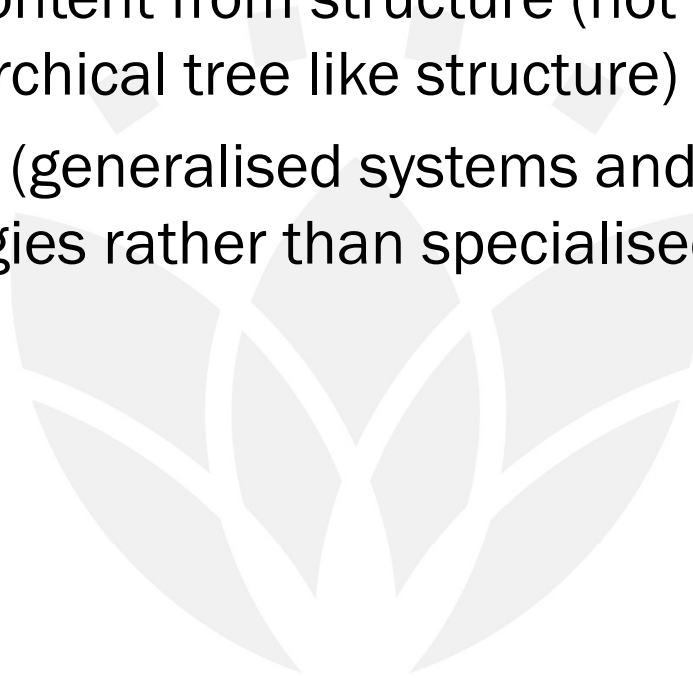
- ▶ Content can be filtered and retrieved in numerous ways
- ▶ Drupal starts with content, not with structure. What is perceived as structure is an overlay – which can be changed as needs arise without requiring major reprogramming
- ▶ Complex websites can be built with no programming knowledge

Source: <http://digitalsolutions.ph/couchkamotereviews/newCMS>

Drupal Paradigm




- ▶ Separate content from layout (html mark up)
- ▶ Separate content from structure (not limited to a static hierarchical tree like structure)
- ▶ Abstraction (generalised systems and methodologies rather than specialised solutions)



Abstraction in action

Same methodology - different results





Heli's Newspaper

Internet Studies 201

My account | Create content | Administer | Log out

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 [Entertainment](#) |
 [Health](#) |
 [Politics](#) |
 [Religion](#) |
 [South Africa](#) |
 [Sports](#) |
 [Technology](#) |
 [UKZN News](#) |
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heli's beetle for sale

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[Transport](#) [Computers & accessories](#)
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[more](#)

Key contributed modules



- ▶ **Content Construction Kit (CCK)**
 - Create a custom content type specific to your content management needs (web form)
- ▶ **Views**
 - generates queries with different display, filtering and sorting options for content
- ▶ **Node import**
 - Import TSV or CSV text files into Drupal nodes. (This is the module I use to import content from legacy systems into Drupal)

Drupal's mission and values



To develop a leading edge open-source content management system that implements the latest thinking and best practices in community publishing, knowledge management, and software design.

We value:

- ▶ Flexibility, simplicity, and utility in our product;
- ▶ Teamwork, innovation, and openness in our community;
- ▶ Modularity, extensibility and maintainability in our code.

Source: <http://drupal.org/mission>