From 0 to Drupal in Six Months

A Case Study on How the Stony Brook University IT Department Migrated to Drupal

http://it.stonybrook.edu/camp
Previous Web Presence

stonybrook.edu/it
- Static HTML/PHP
- Managed via FTP
- 2 Editors
- Wordpress for News
- Third Party KB Solution

About 200,000-300,000 monthly visits

tlt.stonybrook.edu
- SharePoint 2010
- Custom Web Parts
- 20 Editors
- Publishing Workflows
- Custom Permissions
- Audienced Based Navigation
Major Issues

Typical Content Headaches
Outdated, Duplicated, Inaccurate, Incomplete, Unmanaged

Growing Backlog

Navigation & Search

SharePoint Headaches
Atrocious Markup, Cross Browser Problems, Reputation
Timeline

New CIO - May 2011

TLT Director Leaves - November 2011
  SharePoint User Mutiny - 10 minutes after he left

CMS Search Begins - January 2012

New TLT Director Hired - April 2012

Drupal Chosen - June 2012

CIO Leaves - September 2012

TLT Director Becomes Interim CIO

Site Launched - October 2012
CMS Selection Committee

Myself (TLT Site Admin, .Net Developer)
Kerrin Pernicario (IT Content Admin/PR)
Michael Basille (IT Admin/PHP Developer/Client Support)
Don Lavalle (Research Site Web Admin/.Net Developer)
Jason Knaris (Administration Dept. Web Guy/.Net Developer/)
Defining Our Needs

- Multi-Tenant Capable
- Flexible Content/Role Based Permissions
- Extendable
- Single Sign On Capable
- Flexible Search
- Content Approval Workflow
- Web Forms

- Simple Rich Text Editing
- Clean HTML / Section 508 Compliant
- Unlimited Contributors/Editors
- Create Page Redirects
- User Comments
Who We Evaluated

- Adobe CQ5
- dotCMS
- DotNetNuke
- Drupal
- OmniUpdate (OU Campus)
- Oracle Fatwire
- Sitecore
- Umbraco
Additional Considerations

Platform / Familiarity
Support
Community
Cost & Licensing
DotNetNuke vs Drupal

- .Net Based
- Direct Vendor Support
- Marketplace
- Local or Cloud Hosted
- Free / Professional Edition $2000/Year

- PHP Based
- Community Supported
- User Modules
- Local or Cloud Hosted
- Free

- Existing Footprint on Campus
Drupal Wins 4-1

Now What?
Timeline

Drupal Chosen - June 2012

GOOGLE APPS ROLLOUT BEGINS! - JUNE 2012

Hey, we need an office! - Early June
Content Evaluation Process - June
Content Types Defined - Late June
Migration Proof of Concept - June/July
OH NO! New Idea Requires Content Re-Evaluation - Mid-July
Content Migrated Cleanup Begins August....

Semester Start / Target Launch - August 27
CIO Leaves / TLT Director Serves as Interim - September 1
Content Cleanup September....October...
I go on vacation - October 15 - 22

Site Launched - October 22 2012

Kerrin On vacation - October 25 - November 14
Where to Host?

Local
- More Control
- One Time Cost
- More Responsibility

Cloud
- Scalability
- Support
- Redundancy
- Best Practices
- Patching
- Faster Turn Around

Drupal Is Highly Portable
Choosing a Provider

**Acquia**
- Amazon Cloud Based
- Dev, Test, Prod Environments
- GIT / Drush / SFTP
- Multiple Codebases
- Dashboards
- "Insight"

**Other Considerations**
- Drupal Gardens
- Pantheon
My Dev Environment

Acquia Dev Desktop

GIT
- git add <folder>
- git commit -m 'Message'
- git push origin master

Drush
- drush sql-sync @it.prod @it.local --no-cache --sanitize
- drush rsync @it.prod:%files/ @it.local:%files
- http://www.mydrupaljourney.com/articles/2012/04/20/running-drush-rsync-windows-solved

Notepad++

PuTTY/PuTTYgen
$conf['apachesolr_read_only'] = "1";

// Page cache
$conf['cache'] = FALSE;

// Block cache
$conf['block_cache'] = FALSE;

// Optimize CSS files
$conf['preprocess_css'] = FALSE;

// Optimize JavaScript files
$conf['preprocess_js'] = FALSE;
## Content is King!

<table>
<thead>
<tr>
<th>Evaluate</th>
<th>Tools that can help</th>
</tr>
</thead>
<tbody>
<tr>
<td>Categorize</td>
<td>&quot;Web Whacker&quot;</td>
</tr>
<tr>
<td>Structure</td>
<td>Excel / Databases</td>
</tr>
<tr>
<td>Content Types</td>
<td>Feeds Module</td>
</tr>
<tr>
<td>Taxonomy</td>
<td>WYSIWYG</td>
</tr>
<tr>
<td>Best Practices</td>
<td>Entity Reference</td>
</tr>
<tr>
<td></td>
<td>Views</td>
</tr>
<tr>
<td></td>
<td>Date, Email, Link</td>
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<tr>
<td></td>
<td>Features</td>
</tr>
</tbody>
</table>
File Management

- Lots of Images & PDFs
- Define Structure on where you want things saved..THINK NOW!
- What about video?
- What about Flash?

- Other Best Practices

Modules
Insert
IMCE
Transliteration
FileField_Paths
Dealing with Users

What Roles?
Who Can Do What?
Profiles
Authentication Methods
Securing Content

Modules
CAS
Shib_Auth
Workbench
Content_Access
Taxonomy_Access
<table>
<thead>
<tr>
<th>Theme, Layout &amp; Menu's</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Theme, Referencing Zen</td>
</tr>
<tr>
<td>Modules</td>
</tr>
<tr>
<td>Panels</td>
</tr>
<tr>
<td>Context</td>
</tr>
<tr>
<td>Moving to Responsive (Omega? Semantic Grid)</td>
</tr>
<tr>
<td>Delta</td>
</tr>
<tr>
<td>Templating</td>
</tr>
<tr>
<td>Menu System</td>
</tr>
<tr>
<td>Menu_Block</td>
</tr>
</tbody>
</table>

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Pitfalls, Headaches and Issues

- Patching
- Test your patches!
- Editing Experience
- Hitting Limits of GUI Based Modifications
  - Views
  - Panels
- File System Cleanup
- Dead Links (http://wummel.github.com/linkchecker/)
Support

- Google/YouTube
- NodeOne.SE
- User Groups
- Camps
- LevelUpTuts [http://www.youtube.com/user/LevelUpTuts](http://www.youtube.com/user/LevelUpTuts)
- Drupalize.me
- Lynda
- Acquia's Support
Feedback

- Content Editors Happy
- Site Visits Way Up
- University Wide Collaboration

- Missing Some Services

- University Wide Drupal Interest
The Path Ahead

- Ditching Panels
- Implementing SASS (http://sass-lang.com)
- The Left Column
- Responsive Design
- Restructuring Content Types
- Drupal as a Service
- Multi-Sites