

Basics of Drupal for Admins

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Who am I and why am I here?

- Townsend Center for Humanities
- Campus Technology Services
- D-Lab
- Social Science Matrix



Quinn Dombrowski

Do you need Drupal?

- ... or WordPress?
- ... or Google Sites?
- ... or Wix/Weebly/SquareSpace?
- ... or custom programming?
- ... or any of the many web-building tools?

Builders & Software

	Google Sites	Adobe Muse	CSS Templates	Wordpress	Drupal	Others for Sale (e.g. SquareSpace)
\$\$\$	Free	High*	Low*	Free*	Free*	High
Skill	None	Moderate (Design)	Moderate (Code)	Low (install)	Med - High	None
Static?	Static	Static	Static	Dynamic	Dynamic	Dynamic
Pretty?	Plain	Beautiful	Makeup	Beautiful	Makeup	Makeup
Power?	Weak	Weak	Weak	High	Superman	Muscle for Sale
FTP?	No	Yes	Yes	Kinda**	Yes	No

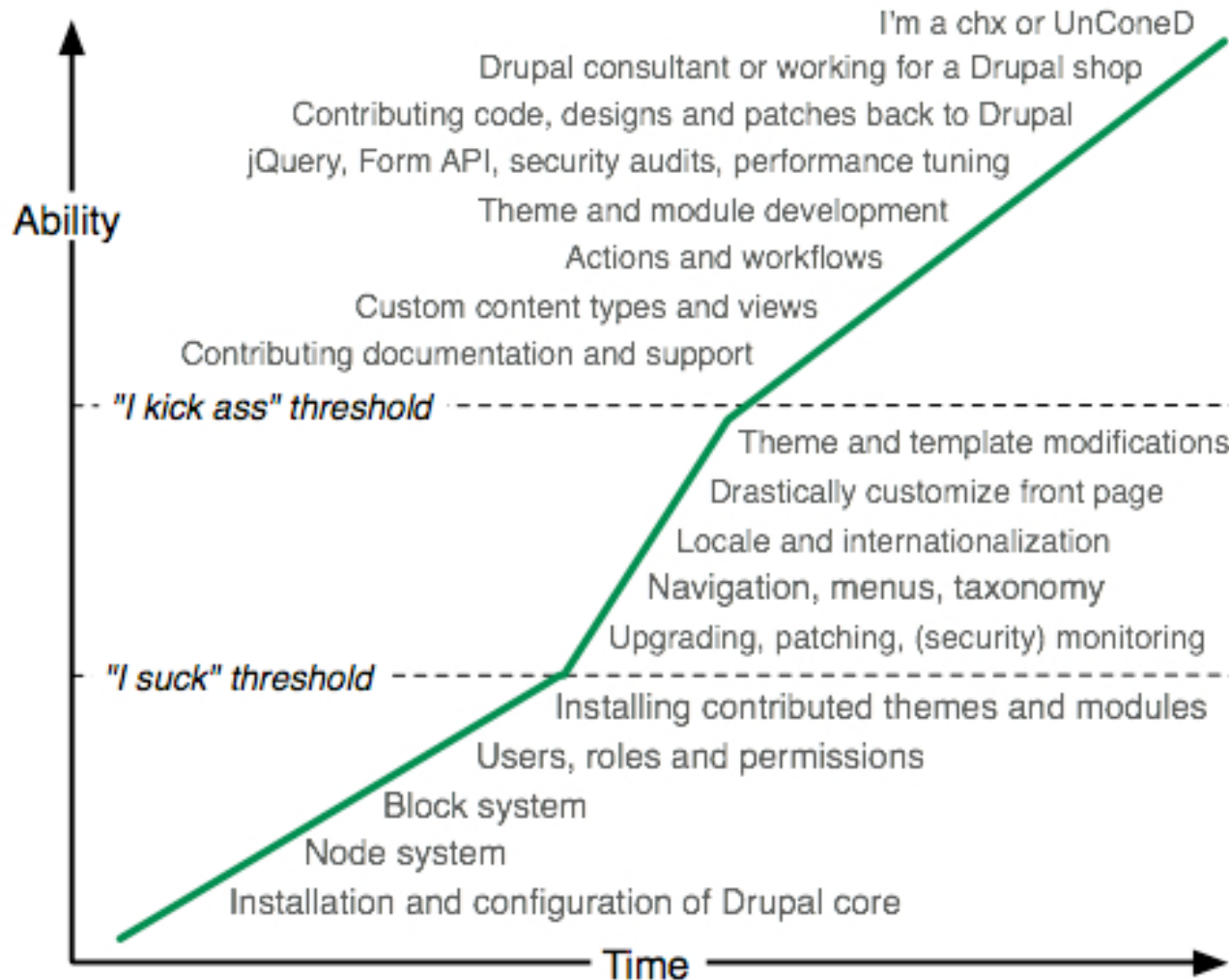
* Plus Hosting Costs

** It's very possible to set up and maintain a WP site without ever having to use FTP.

Drupal at a glance

- Free, open source Content Management System (CMS)
- Many features and add-ons
- Large community of developers
- Used by companies, higher ed, NGOs, scholars
- Very flexible

The Learning Curve



What this workshop will cover

Today:

- Technical overview of Drupal
- Setting up a new Drupal site
- Installing & enabling modules
- Key concepts for Drupal sites
- Intro to data modeling

What this workshop will cover

Next week:

- Further discussion of data modeling
- Building content types
- Adding content
- Blocks
- Themes

What this workshop will cover

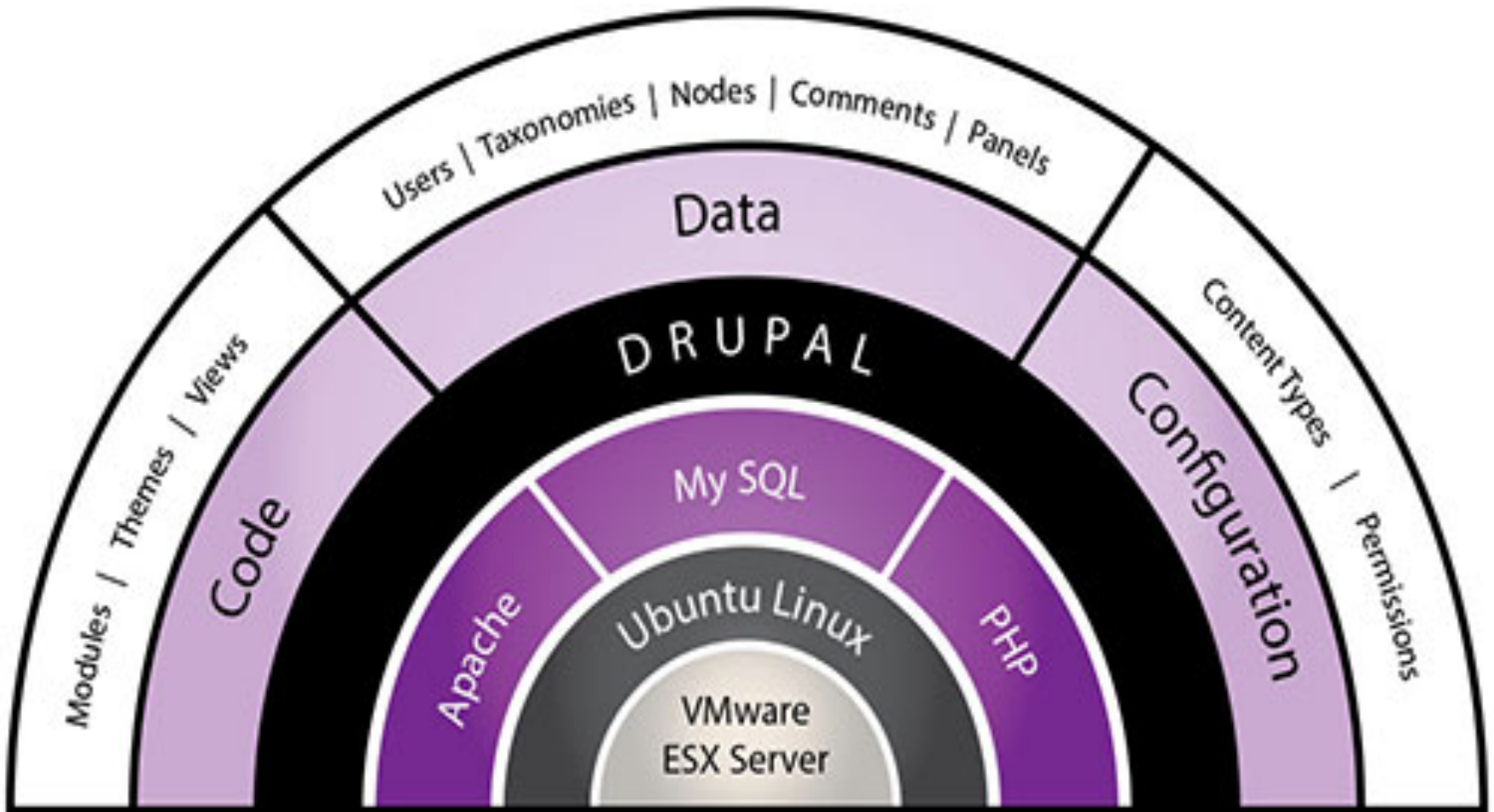
Final week:

- Views
- Menus
- Users / roles
- Image styles
- Slideshows, maps, timelines, etc. as needed

Hosting: Pantheon

- Free for anyone to develop a site
- \$20/month for a basic site with few visitors
- \$75/month for more server resources
- vs. < \$10/month for inexpensive external shared hosting, capable of running multiple sites

Technical overview of Drupal



Technical overview of Drupal

Codebase

- Drupal core
- Modules
- Themes
- Libraries
- Views, blocks, breadcrumbs**

Database

- UI Configurations
- Users
- Permissions
- Content (nodes, taxonomies)
- Blocks Menus, Views

Other: File Uploads

- in file structure with Code
- but treated as Content by Pantheon

Site Building Components

- Content types
- Nodes
- Taxonomies (vocabularies, terms)
- Views
- Blocks
- Menus
- Panels
- Users
- Roles

Example sites...

Your Site

- Which major Drupal version (6, 7, etc)?
- Where is it hosted?
- Which distribution? (Berkeley, etc)
- What modules are you using? (Core, contributed, custom)
- What theme are you using (Core, contributed, custom, Berkeley)
- Who built it and when?
- Reverse engineering...

Installing modules

- Administration menu
- Backup and migrate
- CTools
- Pathauto
- Token
- Views

Modules for building content types

- Date
- Fieldgroup
- Link
- References
- Hundreds of others

Data modeling considerations

- Data or metadata?
 - Data becomes content types, metadata becomes fields (including taxonomy fields)
- Taxonomy or content type?
- Merging similar content types?
- Drupal-based considerations
 - Hiding/displaying author/date information
 - Comments
 - URL patterns (Pathauto)
 - Permissions

Basics of Drupal: Part 2

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What this workshop will cover

Today:

- Further discussion of data modeling
- Building content types
- Adding content
- Blocks
- Themes

Installing modules

- Administration menu
- CTools
- Pathauto
- Token
- Views
- Link
- Date
- YouTube

Data modeling considerations

- Data or metadata?
 - Data becomes content types, metadata becomes fields (including taxonomy fields)
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 - Hiding/displaying author/date information
 - Comments
 - URL patterns (Pathauto)
 - Permissions

Example Project: Political Ads

Person

Name (can rename default Drupal title field)

Biography (can rename default "body" field)

Ad

Title

Video

https://www.youtube.com/playlist?list=PLzlc3hvAftjif_84vmoUJMZsAvLRzT42z

Creating content types

- Add new content type
- Configure settings
- Add new fields
- Configure display
- Create dummy content to try it out

Improving Drupal's paths

Important to configure before adding "real" content to the site

Touching up the content types

Person

- Name
- Biography (body)
- State (taxonomy)
- Website (link)
- Birth date (date) - required
- Party (field list / taxonomy)
- Image (image)
- Office in the Running

Touching up the content types

Ads

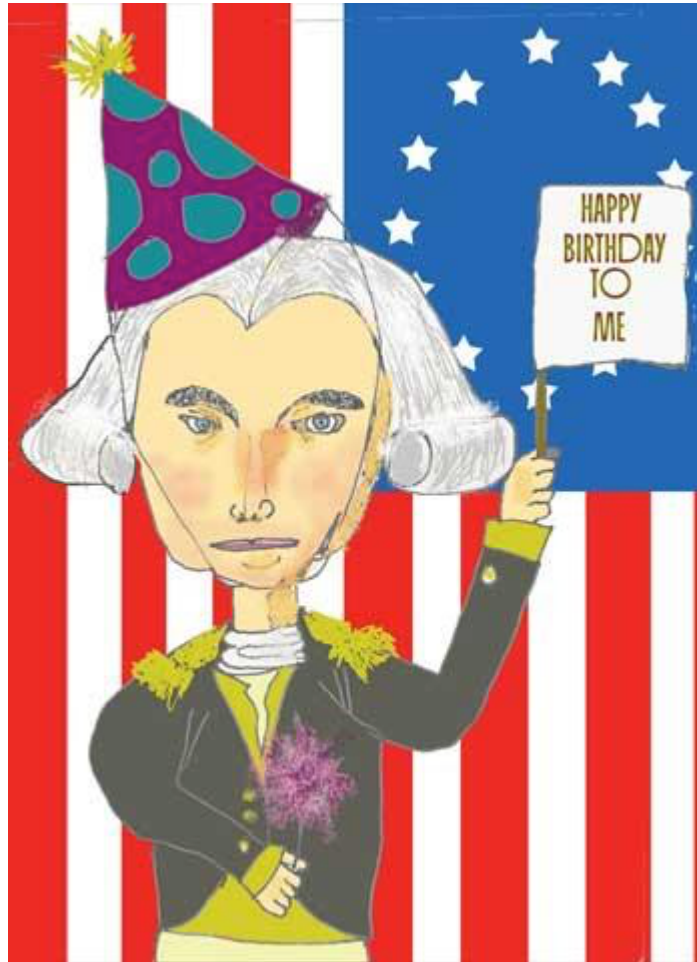
- Title
- Youtube video
- Supporter (node reference)
- Opponent (node reference)
- Date (date)
- Paid for by (???)
- Tag (taxonomy autocomplete)

Automatic nodetitles & Pathauto

Tokens: small pieces of data you can reuse in various places and ways. Examples:

- Most field values
- Content author
- Publication date

Create some dummy content!



Themes

AdaptiveTheme family: enable AdaptiveTheme Core, but set one of the following as the default theme

- Corolla
- Sky
- Pixtore Reloaded
- AT Commerce

Can configure fonts, colors, etc. through the UI

Blocks

Blocks are positioned in *regions* defined by your *theme*.

They can appear or be hidden based on *role*, *content type*, or *path*

Basics of Drupal: Part 3

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What this workshop will cover

Today:

- Continuing data modeling
- Image styles
- Users / roles
- Views
- Blocks
- Menus
- Getting your site off Pantheon

Reminder: Person content type

- Name
- Biography (body)
- State (taxonomy)
- Website (link)
- Birth date (date) - required
- Party (field list / taxonomy)
- Image (image)
- Office in the Running

Reminder: Ads content type

- Title
- YouTube video
- Supporter (node reference)
- Opponent (node reference)
- Date (date)
- Paid for by (???)
- Tag (taxonomy autocomplete)

Introducing Views

- Displaying data from multiple nodes together
- Displaying data from nodes in other contexts (e.g. in the sidebar of another node)
- Creating RSS feeds
- Making bulk changes (e.g. if you've changed your Pathauto paths), using Views Bulk Operations
- Getting your data out of Drupal, using Views Data Export

Simple views via basic interface

- Specifying type of content
- Page vs. block
- Adding Views-generated pages to menus

Let's create a view that provides a grid of all people

Image styles

Allows you to define automatic transformations to the images you upload to your site.

Go to *Configuration > Media > Image styles*.

Menus

Drupal has a menu system that can accommodate both nodes and pages created by Views.

Menus are presented as blocks.

Menus can be configured at *Structure > Menus*.

Expanding on simple views

- Exposed filters
- Exposed sort criteria
- Grouping results
- More sophisticated tables
- Adding Views-generated pages to menus

Let's create a view that shows all ads, grouped by person

Blocks

Blocks are positioned in *regions* defined by your *theme*.

They can appear or be hidden based on *role*, *content type*, or *path*

Advanced Views settings

- Contextual filters: only show ads about the person you're currently viewing

Let's create a block for ads about the person you're viewing

Themes

AdaptiveTheme family: enable AdaptiveTheme Core, but set one of the following as the default theme

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Can configure fonts, colors, etc. through the UI

Site migration

Documented (to some extent) at:

<https://www.drupal.org/node/776864>

- Commit changes, and set Pantheon connection mode to *Git*
- Download code, file, database
- Put the separately-downloaded “files” directory under sites/default

Other Drupal resources

BADCamp: <https://2014.badcamp.net/>
Palace of Fine Arts, SF, November 6-9

Berkeley Drupal Users Group (BDUG):
<https://groups.drupal.org/berkeley>
3rd Monday of the month (usually)

Drupal consulting at D-Lab

Future topics

Any requests?