HELLO DRUPAL

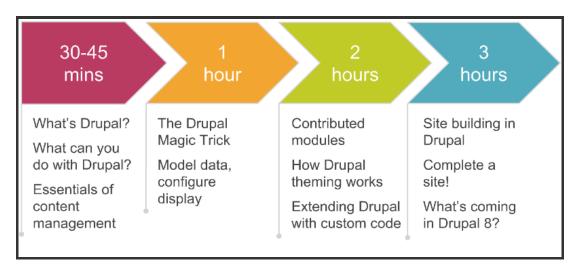
Created by Acquia Learning Services (http://training.acquia.com/)

Hello Drupal by Acquia is licensed under a Creative Commons Attribution 3.0 Unported License (http://creativecommons.org/licenses/by/3.0/deed.en_US).



WHAT WE'LL DO IN THIS COURSE

Depends on how much time we have!



- Learn concepts
- Watch demos
- Try it yourself

GETTING TO KNOW YOU ABOUT ME ABOUT YOU!

- Why I use Drupal
- What I do with Drupal
- What other systems have you used?

WHAT YOU ABSOLUTELY MUST KNOW

- 1. What is Drupal?
- 2. Admin tour: Managing content with Drupal
- 3. Thinking like Drupal: The Drupal Magic Trick
- 4. Extending Drupal: The Big Three

READINESS CHECK!

TOOLS YOU NEED NICE TO HAVE

- 1. A working copy of Drupal 1. Browser inspection tool,
 - Local install (Try Dev Desktop) OR
 - Acquia Free Tier OR
 - Account on Drupal Gardens
- 2. Online exercises.

- such as Firebug for Firefox; or "Developer mode" in Chrome
- 2. Lorem ipsum generator

1. WHAT IS DRUPAL?

WHY DO WE HAVE CMSS?

HTMI

- Sites were mainly text and
 Templating languages like images
- Hierarchical site structure. Separate data and
- Sites were assumed to be accessed mainly from their front pages.
- Site maintenance consisted of updating text • Non technical staff files.

OLD DAYS: JUST TO DATABASE-DRI-**VEN!**

- PHP.
- business logic separated from display.
- Users, logging in and interacting.
- managing websites

IN COMES DRUPAL!



- Founded by Dries Buytaert in his college dorm, circa 2001.
- **Popular:** 1 out of every 50 websites
- Flexible: From programmable API to UI tools for modeling data and display
- **OSS:** Open source software (GPL v 2+)
- CMS: Content

Photo by Kathleen Murtagh Dries' State of Drupa management system

keynote (http://www.flickr.com/photos/ceardach/4540450692) (CC BY 2.0)

(http://creativecommons.org/licenses/by/2.0/deed.en_GB)

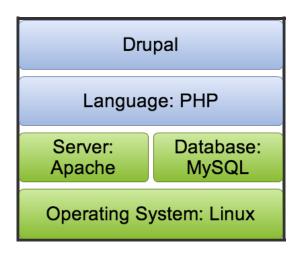
USED WORLDWIDE

Many cases: Publishing, Community, Apps, Web presence. Visit drupalshowcase.com (http://drupalshowcase.com)



Economist.com, Dev.twitter.com, Whitehouse.gov, The King Center

WHAT DOES DRUPAL RUN ON?



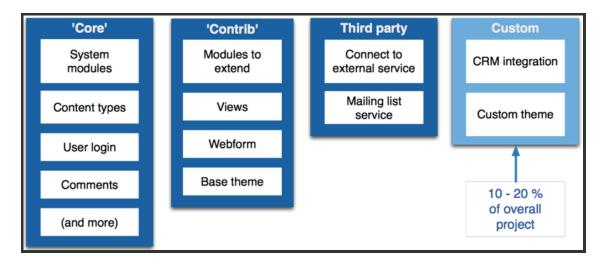
LAMP stack is most widely used and tested.

REQUIREMENTS AND FLEXIBILITY

- Details drupal.org/requirement (https://drupal.org/requirement)
- Built in PHP, HTML, CSS, JS.
- Other OSs, other servers, other DBs possible (in green)

BUILDING WITH DRUPAL

Drupal functionality is easily extended with contributed and custom code



About 80-90% of a typical project is done with contributed code!

DRUPAL.ORG (HTTP://DRU-PAL.ORG)

HOW MANY DEVELOPERS HAVE *CONTRIBUTED* TO DRU-PAL? (HINT: CHECK "D.O")



Drupal.org (http://drupal.org) is the canonical location for collaboration, support, downloading code, accessing documentation and connecting to regional and working

DRUPAL IS BUILT BY PEOPLE

DRUPAL IS SOFTWARE BUT ALSO A COMMUNITY.



All photos by Kathleen Murtagh code sprints (http://www.flickr.com/photos/ceardach/) (CC BY 2.0) (http://creativecommons.org/licenses/by/2.0/deed.en_GB)

DRUPALCON

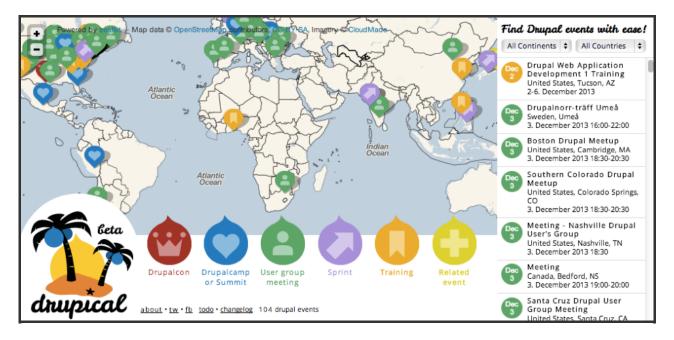
- Held in Europe, North America and Australia
- From 1500-3000 people
- 5 days of learning and collaboration
- Affordable ticket prices; also Scholarships!

WHERE'S THE NEXT DRUPALCON?

Hint! Check association.drupal.org/drupalcon (https://association.drupal.org/drupalcon)

CONNECT LOCALLY

Attend meet-ups, DrupalCamps (local conferences) and training

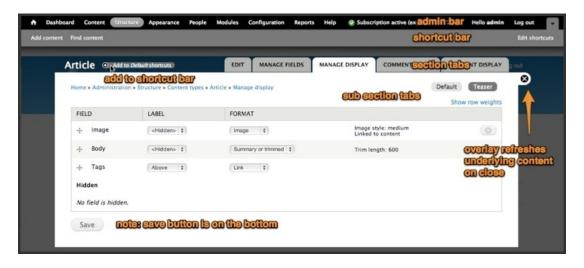


Drupical (http://drupical.com) hosts and up to date listing of events across the world.

2. THE DRUPAL ADMIN TOUR!

DRUPAL AS A CMS

DEMOS BY YOUR DRUPAL GUIDE; YOU TRY THE **TASKS**.



In Drupal 7, most of the editing in the admin area is done in the "overlay".

MANAGING CONTENT WITH DRUPAL

DEMO

- 1. A quick tour of the admin 1. Change your site title! UI, the overlay and menus. 2. Add a basic page
- 2. How to add content? 3. Add an article

TASKS

- 3. Where to find content? 4. Bonus: Main menu link
 - 5. Bonus: Comments

HOW DID YOU DO?

Which of these tasks did you complete?

- 1. Changed site title.
- 2. Added a Basic page titled "About".
- 3. Created an article with tags.
- 4. Bonus: Added a comment.
- 5. Bonus: Added link to Main menu.

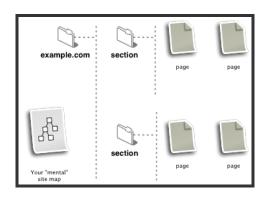
IMPORTANT TO KNOW!

The Drupal content editing experience can (and should) be customized by the developers for users.

- 1. Custom administration pages
- 2. Improved UI for editing content
- 3. WYSIWYG configuration

3. THINKING LIKE DRUPAL

ASSEMBLING YOUR WEBSITE

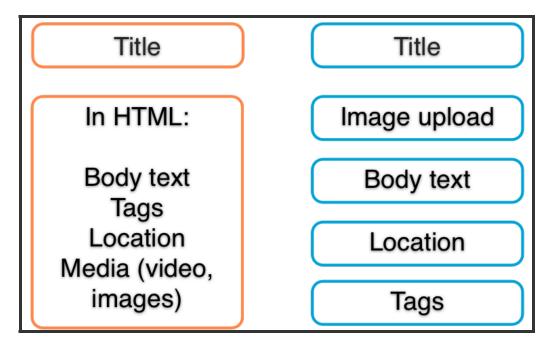


(images/mental-sitemapfull.png) Your mental model might be like this.

- You use Drupal to assemble sites with data.
- Drupal surprises users who expect "structure first". Drupal is "data first".
- The computing metaphor of "folders" and "documents" is compelling. Beware!

STRUCTURED DATA

Compare these two data models. How can you control content input and display with either?

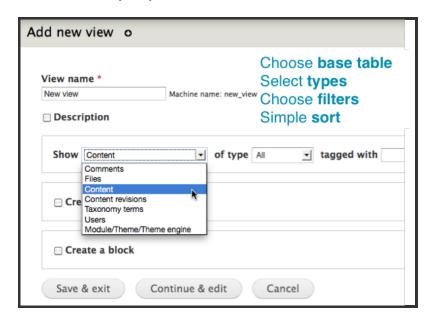


Unstructured text on the left, structured data (fields) on the right.

INTRODUCING VIEWS!

Views is a query builder.

It's the most popular contributed module.



This shows the Views wizard screen which we'll use in the demo.

DRUPAL MAGIC TRICK! DEMO TASKS

- 1. Add a **content type**
- 2. Add an imagefield
- 3. Create content (add a **node**)
- 4. Create lists of content with **Views**
- 5. Place a **block** into a **region**
- 6. Fix the imagestyle

- 1. Use Views!
- 2. Make a page of articles at /articles

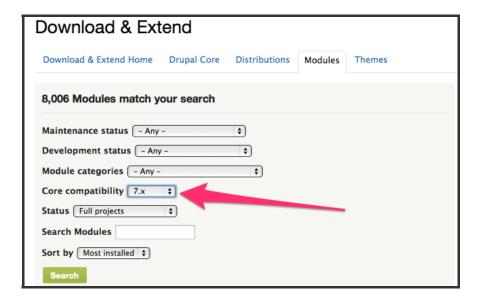
HOW DID YOU DO?

Which of these tasks did you complete?

- 1. Created a view
- 2. Added a page of articles at /articles
- 3. Bonus: Did you try something else?

IMPORTANT TO KNOW!

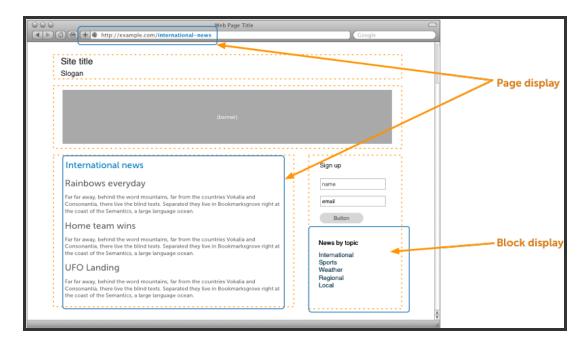
CONTRIBUTED MODULES EXTEND WHAT DRUPAL CAN DO.



Many modules like **Views slideshow** extend Views. Guess what it does?

4. EXTENDING DRUPAL: THE BIG 3

FIRST: SITE BUILDING

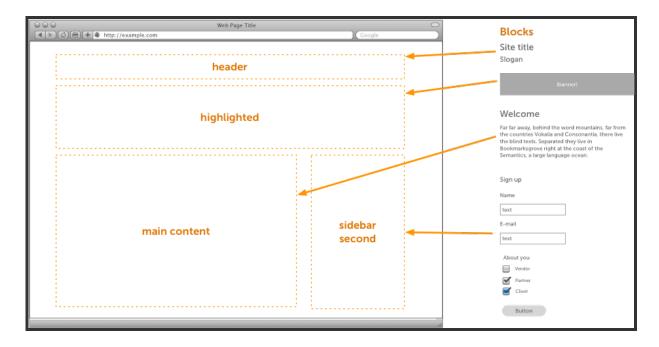


Site building is everything you can do in the UI layer of Drupal

WHAT IS SITE BUILDING?

- Selecting and configuring contributed modules.
- Modeling content types, users, etc with fields.
- Configuring **display** of content, users, terms, etc.
- Configuring lists (**views**) of content, users, terms, etc.

SECOND: LAYOUT AND THEMING

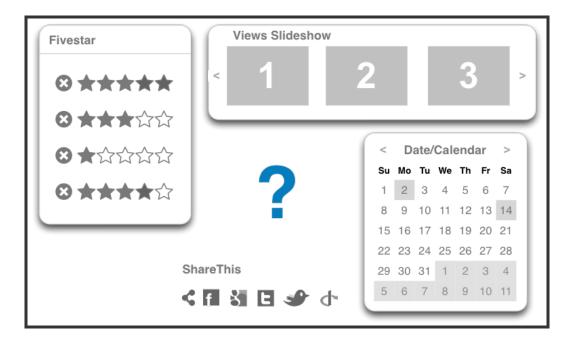


Layout and theming combines Drupal site building and coding in PHP/HTML/CSS/JS.

WHAT IS LAYOUT AND THEMING?

- 1. Layout: Where things appear on the screen
- 2. **Theming:** How they look TASKS INCLUDE:
- Various approaches for different use cases.
- Contributed modules for configuring layout.
- Extending base themes
- Creating custom themes

THIRD: CUSTOM CODING WITH MODULES

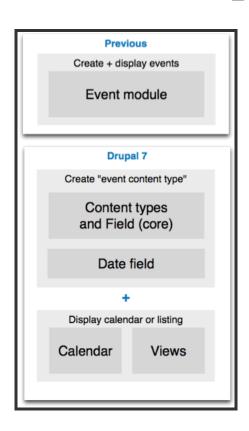


Modules answer questions such as "Can Drupal do X?"

WHAT IS MODULE DEVELOP-MENT?

- Knowing the landscape of contributed modules and roadmaps.
- Extending existing modules and contributing **patches**.
- Use Drupal's API to write new modules in PHP/HTML/CSS/JavaScript/etc.
- Custom modules for new functionality and integrations.

DRUPAL EMPHASIZES FLEXI-BILITY



DRUPAL 7

- More generic, flexible solutions.
- Don't duplicate effort.
- Standardize administration.
- Less dependence on custom code.

(images/big3-smallpieces-

TIPS ON MODULE SELECTION

REPUTA-TION

- Maintainers other contributions and involvement,
- IRC, word of mouth, appearance in case studies and blog posts.

REACH

- Community around module?
- Related modules?
- Number of installations?
- Integrate with other modules?

CURRENCY

- Recent commits (last 4-6 weeks)?
- Recent release? (green/stable)
- Issue queue responsiveness and maintenance?

READING A PROJECT PAGE

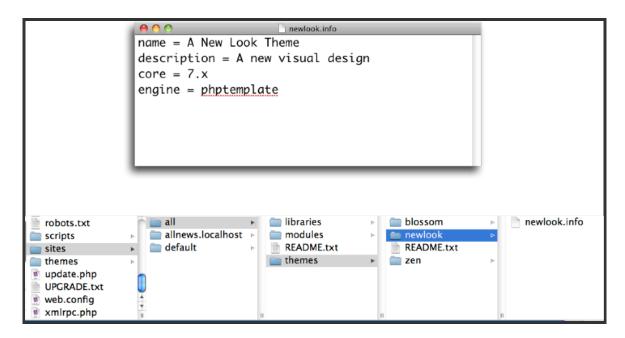
DEMO

- 1. Compatible version for Drupal 7?
- 2. How many installations?
- 3. Who maintains this?
- 4. What are current issues?
- 5. Is Documentation available?

TASK

- Come up with an idea for some functionality you'd like on your site. (No ideas? How about allowing users login with Facebook.)
- 2. Search for a module.
- 3. Evaluate it against the criteria we used: Reputation, reach, currency

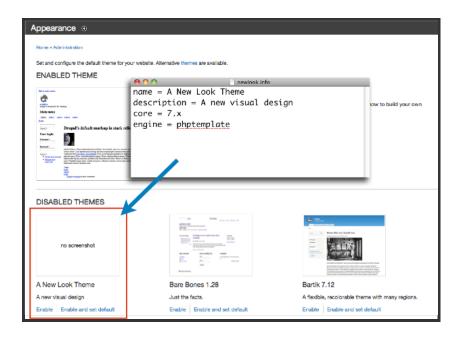
A BASIC THEME



This is the bare minimum you need for a theme in Drupal 7.

WHAT WILL HAPPEN?

What do you think the site will display when we enable this theme?



Enable themes under "Appearance"

DEMO: STARK THEME

This core theme is basically what you'll get!

- Go to "Appearance"
- Under "Stark" click "Enable and set as default"
- Visit your site

RECAP

SITE BUILD-ING

- Everything you can do in the UI, • Configuring
- Content and site architecture,
- Module selection
 Using modules and config,
- Permissions.

LAYOUT ING

- Drupal to control markup,
- for layout management,
- Custom themes with CSS,
- JavaScript etc.

MODULE DE-AND THEM- VELOPMENT

- Knowing the contrib / core modules landscape and roadmap,
- Writing custom code to create new functionality.

SKILLS YOU NEED

SITE BUILD-ING

Web developers

- No prior experience required.
- Knowledge of HTML and CSS helps!

LAYOUT AND THEM-ING

Front end developers

- HTML, CSS, JavaScript.
- Minimal PHP knowledge.

MODULE DE-VELOPMENT

Back end developers

- HTML, CSS, JavaScript.
- PHP experience
- Programming experience