Cornell University

Thinking in Drupal

Taking an Idea from Concept to Completion

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Prerequisites

This session assumes you have some small start on:

- Webserver basics

- Installing database driven websites

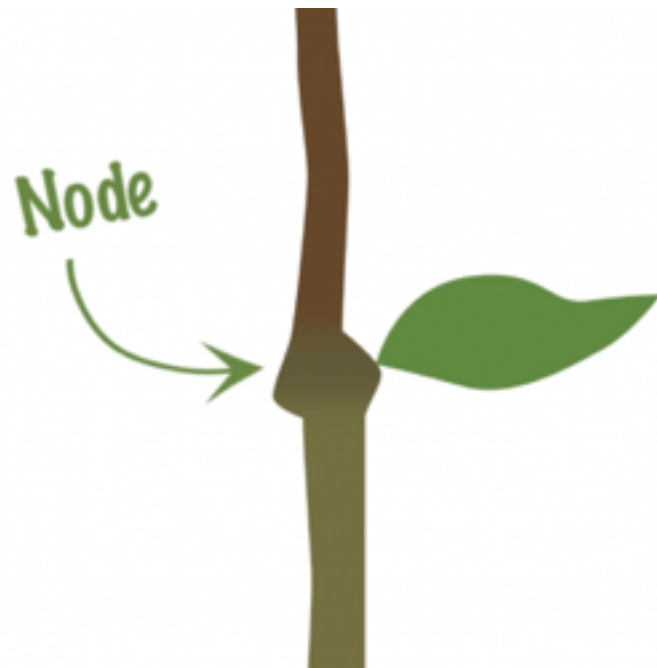So you've got a Drupal website...

What are you going to do with it?

Concept Breakdown

- What will be a node?

- What fields will it have?

What will be a Node?

: a point at which subsidiary parts originate or center

a Node is "the thing itself"

What fields will it have?

What "subsidiary parts originate or center" on your node?

Think of attributes or properties required by your concept that are associated with each item you've determined to be a node.

Think of an address book

Think of an address book

If an address book is your concept...

Each entry of a person is a node.

Each phone number, email address, etc is a field to that node.

Concept Breakdown

- How will it be added?
- How will it be displayed?
- How will it be interacted with?

It is possible to configure Drupal for basic concepts without adding anything to it.

Example 1

node = basic page
fields = title, body

How will it be:

added: node/add/page
displayed: front page view, on its own
interacted with: click to read more, comment

Many times, Drupal needs some help from contributed modules.

What if our concept is a little more off the beaten path?

Example 2 - Check Register

Example 2 - Check Register

node = expense
fields = paid to, amount, paid date, status, title

How will it be:

added: node/add/expense   ...csv?
displayed: viewed in table form   ...added up?
interacted with: view totals, edit individual items

Module Research

Take your answers and do some research.

Familiarize yourself with http://drupal.org/project/modules

Module Research

- Browse often and for fun
- Find tools for current use
  Learn about tools for future use

Module Research

/modules page

Module categories
Quickly narrow your search

Sort by Most Installed, Last build / Release
Indication of popular, well used and supported, active

Module Page

Refine your search ▾

Download & Extend

Download & Extend Home   Drupal Core   Distributions   **Modules**   Themes

Views

View   Version control

Posted by **merlinofchaos** on *November 25, 2005 at 8:34pm*

You need Views if

- You like the default front page view, but you find you want to sort it differently.
- You like the default taxonomy/term view, but you find you want to sort it differently; for example, alphabetically.
- You use /tracker, but you want to restrict it to posts of a certain type.
- You like the idea of the 'article' module, but it doesn't display articles the way you like.
- You want a way to display a block with the 5 most recent posts of some particular type.
- You want to provide 'unread forum posts'.
- You want a monthly archive similar to the typical Movable Type/Wordpress archives that displays a link to the in the form of "Month, YYYY (X)" where X is the number of posts that month, and displays them in a block. The links lead to a simple list of posts for that month.

Views can do a lot more than that, but those are some of the obvious uses of Views.

Views for Drupal 8

Views is in Drupal 8 Core!

Recommended versions of Views!

For new installs of Drupal 6, we recommend the 6.x-3.x branch. We have not changed the recommended version you see below, because there is an upgrade bug in 6.x-2.x that causes upgraded views to break.

Maintainers for Views

dawehner - 2908 commits
last: 3 weeks ago, first: 3 years ago

tim.plunkett - 579 commits
last: 5 weeks ago, first: 1 year ago

damiankloip - 352 commits
last: 8 weeks ago, first: 34 weeks ago

dww - 28 commits
last: 10 weeks ago, first: 5 years ago

xjm - 78 commits
last: 12 weeks ago, first: 20 weeks ago

View all committers
View commits

Issues for Views

To avoid duplicates, please search before submitting a new issue.

Search

Advanced search

Evaluating your findings

Module Page

- Project Description
  - ○ Possibly useful
- Committers
  - ○ Number, Last commit
- Project Information at bottom of page
  - ○ Maintenance Status, Reported Installs
    - ■ High number of installs = lots of eyes on it
- Issue Queue
  - ○ All issues

Module Page

Downloads

Recommended releases

Version	Downloads	Date	Links
7.x-3.5	tar.gz (1.56 MB) | zip (1.78 MB)	2012-Aug-24	Notes
6.x-2.16	tar.gz (1.21 MB) | zip (1.35 MB)	2011-Nov-14	Notes

Other releases

Version	Downloads	Date	Links
6.x-3.0	tar.gz (1.13 MB) | zip (1.31 MB)	2012-Jan-04	Notes

Development releases

Version	Downloads	Date	Links
7.x-3.x-dev	tar.gz (1.56 MB) | zip (1.79 MB)	2013-Jan-06	Notes
6.x-3.x-dev	tar.gz (1.1 MB) | zip (1.26 MB)	2013-Jan-02	Notes

Project Information

Maintenance status: Actively maintained
Development status: Under active development
Reported installs: **566877** sites currently report using this module. View usage statistics.
Downloads: 3,234,997
Automated tests: Enabled
Last modified: November 7, 2012

Module Page

Issue Queue

- Open / Total
  - Ratio
  - # Solved
    - High number = popular, well supported
    - High number of bugs = lots of eyes on it

Issues for Views

To avoid duplicates, please search before submitting a new issue.

Search
Advanced search

All issues
2307 open, 17913 total

Bug reports
888 open, 6874 total

Issue Queue

Issues for Views

Login or register to create an issue   Advanced search

Search for

[   ]

Status

[- Open issues -   ▲▼]

Priority

[- Any - ▲▼]

Category

[- Any -   ▲▼]

Version

[- Any -   ▲▼]

Component

[- Any -   ▲▼]   [Search]

Summary	Status	Priority	Category	Version	Component	Replies	Last updated ▾	Assigned to	Created
Get sum of price * quantity?	fixed	normal	support requests	7.x-3.5	aggregator data	7	1 hour 15 min		2 weeks 2 days
Change selected	needs work	normal	support requests	7.x-3.5	Views Form	4	5 hours 4 min		6 hours 4 min
Views rebuilds the menu more than it needs to	needs work	normal	tasks	6.x-3.x-dev	Miscellaneous	8	6 hours 41 min	dawehner	2 years 13 weeks
Exposed form with style input required	active	normal	bug reports	7.x-3.5	exposed filters	4	10 hours 14 min		1 week 5 days
Segfault with large number of arguments in views_break_phrase()	needs review	normal	bug reports	7.x-3.x-dev	Code	5	10 hours 55 min		5 days 1 hour

Issue Queue

Last Updated
   Responsiveness

Created / Last Updated
   Can see old issues being tended to
   Should not see same date = unmaintained

Example 2 - Check Register

fields = paid to, amount, paid date, status, title

taxonomy - comes with Drupal
Auto Node Title
Date

localhost/kelly/#overlay=admin/structure/types

Dashboard Content Structure Appearance People Modules Configuration Reports Help

Add content Find content

Content types ⊕

✚ Add content type

NAME
Article (Machine name: article) Use *articles* for time-sensitive content like news, press releases or blog posts.
Basic page (Machine name: page) Use *basic pages* for your static content, such as an 'About us' page.

localhost/kelly/#overlay=admin/structure/types/add

Dashboard   Content   **Structure**   Appearance   People   Modules   Configuration   Reports   Help

Add content   Find content

Content types ⊕

Home » Administration » Structure » Content types

Individual content types can have different fields, behaviors, and permissions assigned to them.

Name *

The human-readable name of this content type. This text will be displayed as part of the list on tl letters, numbers, and spaces. This name must be unique.

Description

Describe this content type. The text will be displayed on the *Add new content* page.

Dashboard | **Content** | **Structure** | **Appearance** | **People** | **Modules** | **Configuration** | **Reports** | **Help**

Add content   Find content

Expense ⊕

EDIT | ACCESS CONTROL | **MANAGE FIELDS** | MANAGE DISPLAY

Home » Administration » Structure » Content types » Expense

LABEL	MACHINE NAME	FIELD TYPE	WIDGET
✛ Title	title	Node module element	
✛ Status	field_status	List (text)	Select list
✛ Paid to	field_paid_to	Term reference	Autocomplete term widget (tagging)
✛ Expense Item	field_expense_item	Term reference	Autocomplete term widget (tagging)
✛ Date Paid	field_date_paid	Date	Pop-up calendar
✛ Amount	field_amount	Decimal	Text field
✛ Check Number	field_check_number	Integer	Text field
✛ Notes	body	Long text and summary	Text area with a summary
✛ **Add new field**			

[ ]		- Select a field type - ▾	- Select a widget - ▾
Label		Type of data to store.	Form element to edit the data.

Create Expense ⊕

Think

Title *

Status *

- Select a value - ⇕

Paid to *

○

Expense Item

○

DATE PAID

Date

E.g., 07/08/2013

Amount

Example 2 - Check Register

displayed: viewed in table form   ...added up?
interacted with: view totals, edit individual items

Views
Views Calc
Content Access

TITLE

Title: Expenses

FORMAT

Format: Views Calc Table | Settings

FIELDS add ▾

Content: Nid (Expense ID)

Content: Paid to (Paid to)

Content: Expense Item (Expense Item)

Content: Date Paid (Date Paid)

Content: Amount (Amount)

FILTER CRITERIA add ▾

Content: Published (Yes)

Content: Type (= Expense)

Content: Status (exposed)

Content: Paid to (exposed) | Settings

Content: Expense Item (exposed) | Settings

Content: Check Number (exposed)

Content: Date Paid (exposed)

SORT CRITERIA add ▾

Content: Post date (desc)

PAGE SETTINGS

Path: /expenses

Menu: Normal: Expenses

Access: Permission | *Expense*: Create new content

HEADER add ▾

Global: Text area

FOOTER add

PAGER

Use pager: Full | Paged, 30 items

More link: No

▶ Advanced

Example 2 - Check Register

Expenses

+ add an expense

Status	Paid to	Expense Item	Check Number	Date Paid	
Outstanding Bill	– Any –	– Any –		**Start date**	Apply
Active Check					
Completed				E.g., 2013-03-13	
				End date	
				E.g., 2013-03-13	

Expense ID	Paid to	Expense Item	Date Paid ▼	Amount
2	Comcast	Internet	01/25/2013	75.00
3	Comcast	Internet	01/24/2013	95.00
Total SUM				**170.00**

Bonus Example: Image Gallery

Bonus Example: Image Gallery

Option 1
node = image
fields = title, description, tags, etc
added = node/add/image for each image
display = gallery of images
interacted = click to view next, larger, or own page, hover for more info?

Bonus Example: Image Gallery

Option 1 Pros

- More info per Image
- More info in display
- More freedom in display placement per image
- More interaction options

Option 1 Cons

- More complicated workflow for adding images
- More complicated in display ordering
- Complicated gallery interaction options

Bonus Example: Image Gallery

Option 2
node =   gallery
fields =   images
added =   node/add or edit gallery
              add image to a multifield
display =   each node is a gallery showing all its
              image fields
interacted = click to view next, larger

Bonus Example: Image Gallery

Option 2 Pros

- Fast gallery creation
- Easy interface for ordering
- More gallery interaction options

Option 2 Cons

- Less info per Image
- More restriction in display placement per image
- Fewer interaction options

Bonus Example: Image Gallery

Comparison

Option 1
node = image

Option 2
node = gallery

What you choose to be **your node determines** the **pros you will enjoy** and the **cons you will need to overcome** in completing your concept.

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