



DrupalEasy.com Podcast

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@drupaleasy

iTunes reviews welcome!



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The good old days

<http://www.flickr.com/photos/nyp/3110144750/>



**“If you only have a hammer,
everything is a nail.”**

**Everything is a Node
(CCK)**

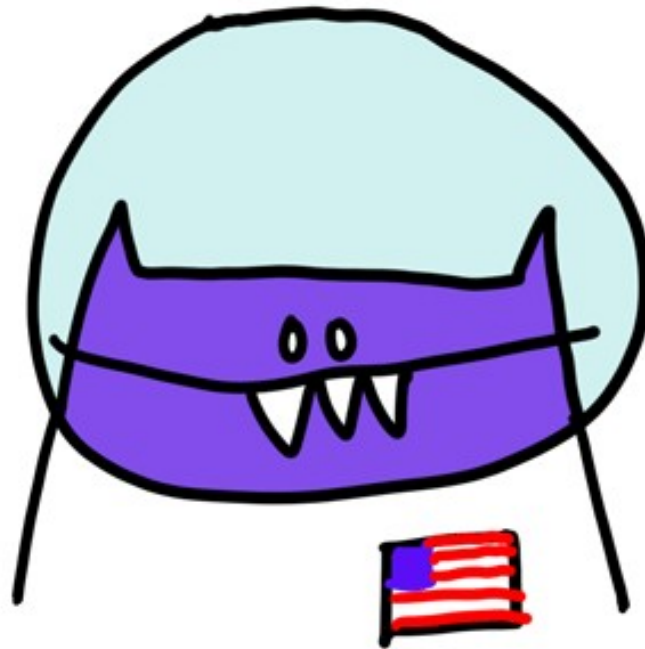
Everything is a Node

- **Media as nodes**
 - Photos++, Video, Audio
- **eCommerce Products**
 - T-Shirt sizes, pricing rules
- **Complex parent/child relationships**
 - Artist / Album, Album / Track, Author / Books
 - Theatre Show / Performances
- **Nodereference**
 - Include the body of one node in another
 - Only goes in one direction

Some Hybrids

- **User Profiles as nodes**
 - **Easier to add and manipulate fields**
 - **Now same content on two URLs**
- **Location**
 - **Is it a node or something else?**
- **Comments as nodes**
 - **Allows you to add fields, use Node API**
- **Blocks with fields?**
 - **Writing custom code, can't use CCK**

We live in incredible times.
and as long as there's still one
PERSON on the planet who
doesn't believe this, there's
still work to be done.



hugh

“More than hammers.”

Entities and Bundles



Nodes = Entity type, Content Types = Bundles

Node (entity)

Title
Created
Updated
Published
Promoted
Sticky
Author
Menu Settings
Comments*

*Admin >
Structure >
Content Types >
Blog*

Content Type (bundle)

Blog post

Forum post

Page

Poll

“Fieldable” Nodes

Node (entity)

Title
Created
Updated
Published
Promoted
Sticky
Author
Menu Settings
Comments*

*Admin >
Structure >
Content Types >
Blog >
Manage Fields*

Content Type (bundle)

Blog post

Body
Tags**

Forum post

Body
Forum**

Page

Body

Poll

* “Fieldable” Comments

Comment (entity)

Subject
Created
Status
Author
Email
Homepage

*Admin >
Structure >
Content Types >
Blog >
Comment Fields*

Comment/Content Type (bundle)

Blog post comment

Comment Body

Forum post comment

Comment Body
+Image

Page comment

Comment Body
+Rating

Poll comment

Comment Body
+Link

** “Fieldable” Terms

Taxonomy (entity)

Name
Description

*Admin >
Structure >
Taxonomy >
Tags >
Manage Fields*

Vocabulary (bundle)

Categories

Name
Description
+Editor name

Forum containers

Name
Description
+Date

Tags

Name
Description

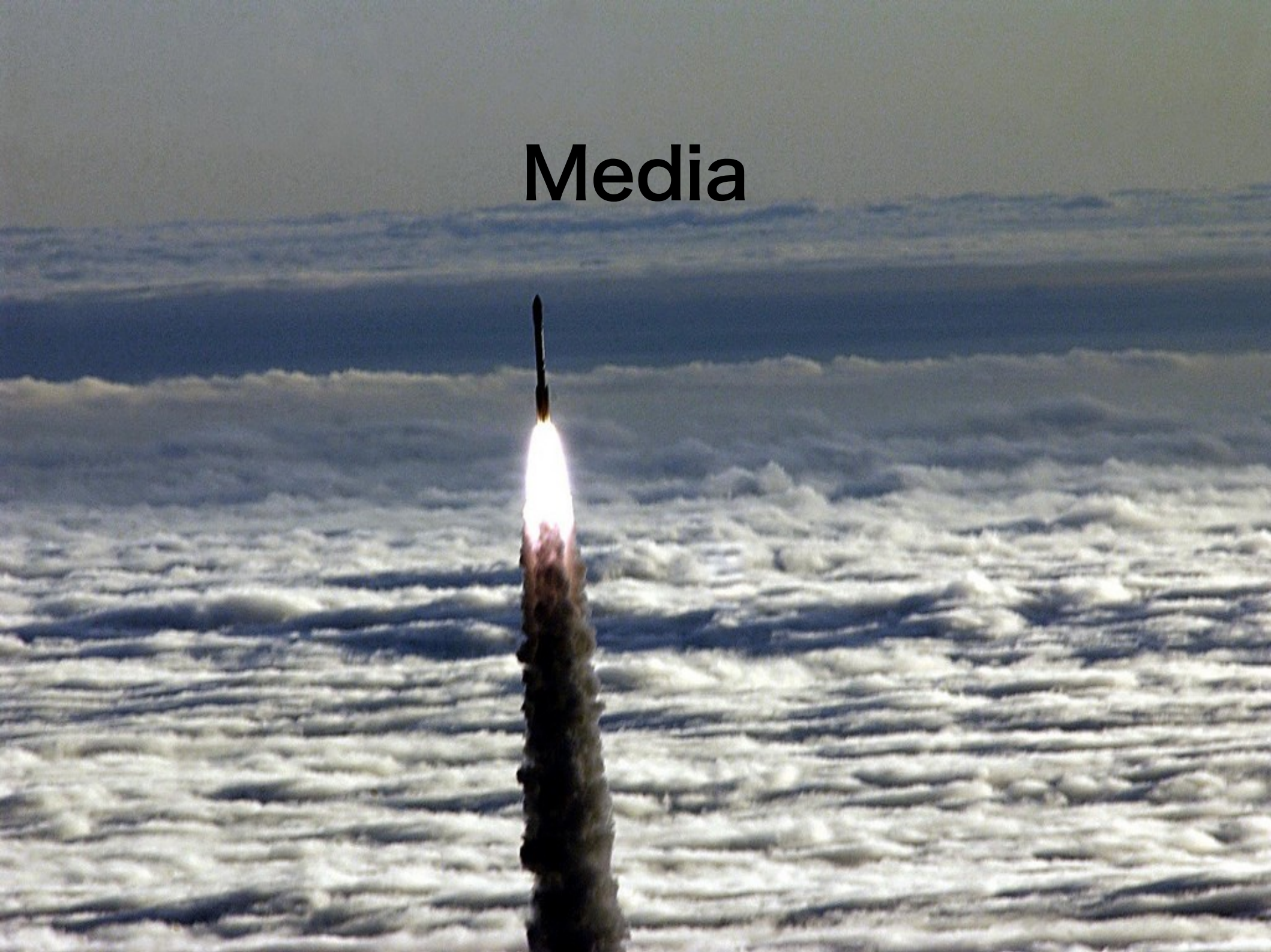
Wood Finish

Name
Description
+Image

Module Support


- Fields
 - (the artist formerly known as CCK)
- Search
- Views
- Token
- Rules
- Features
- Translation / I18N

Media




Media


Upload Web **Library**



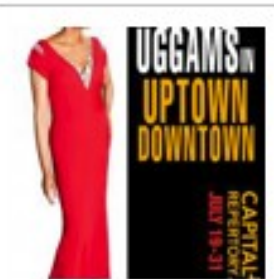
man-of-lamancha




SuperiorDonuts_SC



superior-donuts-5



leslie-uggams-50t

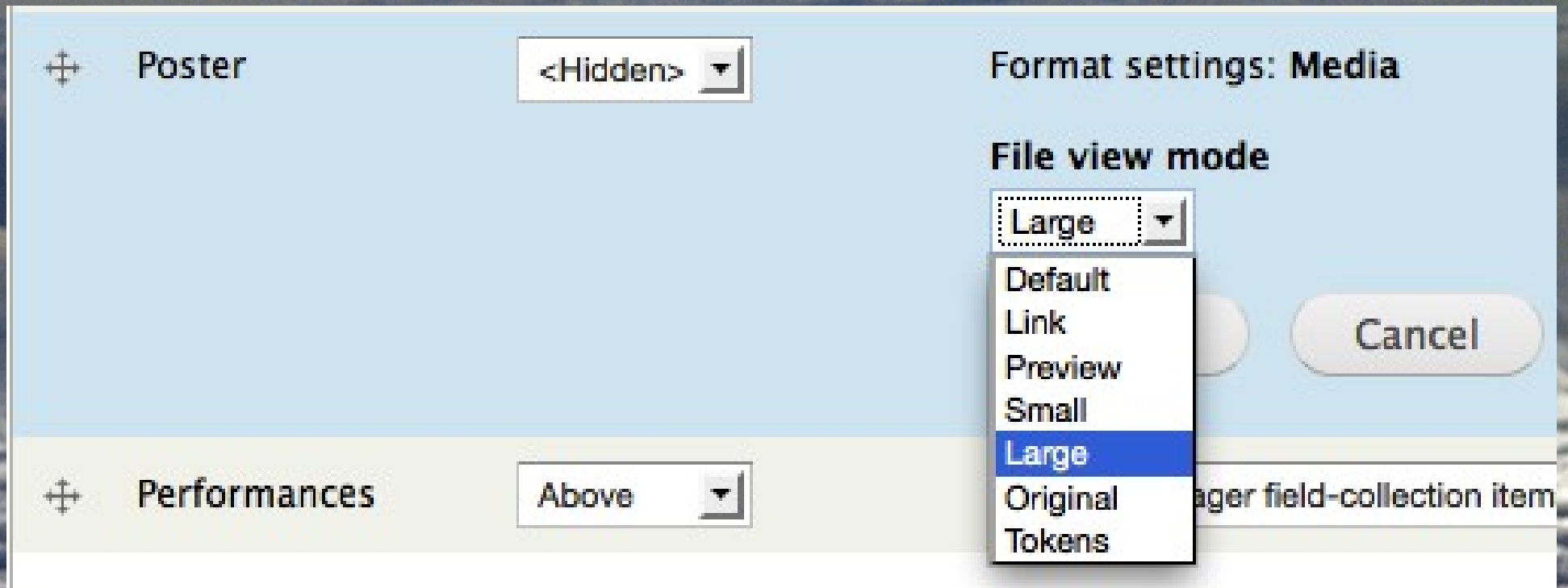


man-of-lamancha

Select media

Remove media

Media



The image shows a software interface for media settings. It features a light blue header area and a light yellow footer area. In the header, there is a section for "Poster" with a crosshair icon and a dropdown menu currently set to "<Hidden>". To the right of this is the text "Format settings: Media". Below this, the "File view mode" section has a dropdown menu open, showing options: "Default", "Link", "Preview", "Small", "Large" (highlighted in blue), "Original", and "Tokens". A "Cancel" button is visible to the right of the dropdown. In the footer, there is a section for "Performances" with a crosshair icon and a dropdown menu set to "Above". The background of the entire image is a photograph of a tree trunk in the foreground and a vast, textured landscape of white and grey under a grey sky.

Poster <Hidden> Format settings: Media

File view mode

Large

Default
Link
Preview
Small
Large
Original
Tokens

Cancel

Performances Above

ager field-collection item

Products

Drupal Commerce



Drupal Commerce

Product ^{*}

trunk-vertical-medicine-hardwood, trunk-vertical-medicine-br

Choose the product(s) to display for sale on this node by SKU.

Vertical Medicine Trunk

Collection

- Classic Hardwood
- Premiere Brass
- Custom Vinyl
- Oakcroft Plaid
- Artesian Inlay

Add to cart



\$10.00

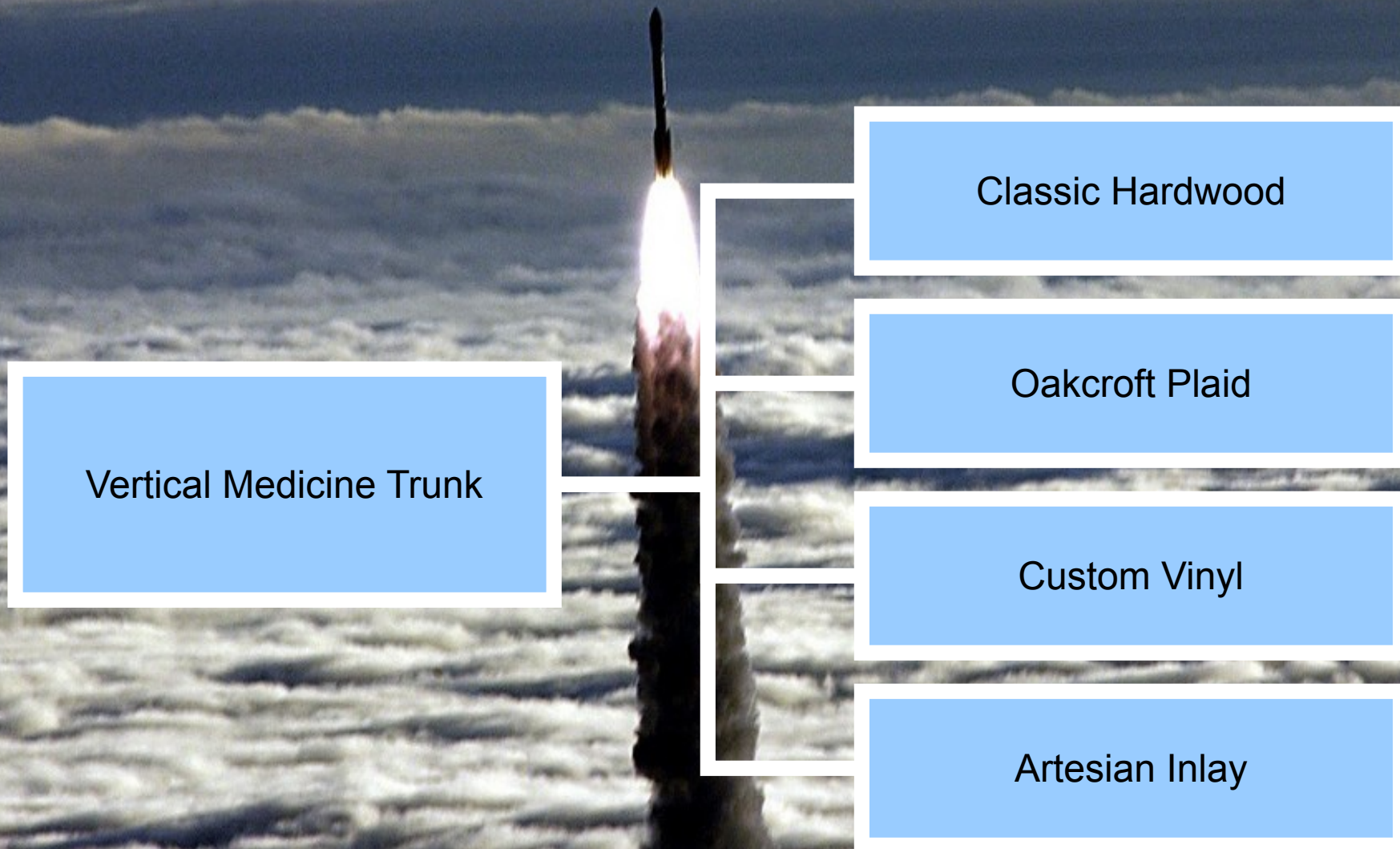
read more

trunk-vertical-medicine-brass	Vertical Medicine Trunk (Premiere Brass)
trunk-vertical-medicine-hardwood	Vertical Medicine Trunk (Classic Hardwood)
trunk-vertical-medicine-inlay	Vertical Medicine Trunk (Artesian Inlay)
trunk-vertical-medicine-plaid	Vertical Medicine Trunk (Oakcroft Plaid)
trunk-vertical-medicine-vinyl	Vertical Medicine Trunk (Custom Vinyl)

Drupal Commerce

Product Display (node)

Product (entity)



Bulk add Products

LABEL	
+	Product SKU
+	Title
+	Product Type
+	Image
+	Price
+	Status
+	Collection
+	Dimensions

▼ COMBINATIONS

A product will be created for every

Product Type

Trunks
-Bridle Trunks
-Harness Trunks
-Medicine Trunks

Collection

Classic Hardwood
Premiere Brass
Custom Vinyl
Oakcroft Plaid

User Profiles

Profile2



Profile2

Add profile type

[Home](#) » [Administration](#) » [Structure](#) » [Profile types](#)

Label *

Machine name: resume [\[Edit\]](#)

The human-readable name of this profile type.

Show during user account registration.

Provide a separate page for editing profiles.

If enabled, a separate menu item for editing the pr

Save profile type

Proflie2

Account

Profile

LABEL	STATUS	OPERATIONS						
Blog (Machine name: blog_header)	Custom	edit	manage fields	manage display	clone	delete	export	
Profile (Machine name: main)	Custom	edit	manage fields	manage display	clone	delete	export	
Member Info (Machine name: member_info)	Custom	edit	manage fields	manage display	clone	delete	export	

Profile2

LABEL	NAME	FIELD
+ Full Name	field_profile_fullname	Text
+ Personal Statement	field_profile_personal_statement	Long text and summary
+ Websites	field_profile_websites	Link
+ Interests	field_tags	Term reference
+ Resume	group_resume	<input type="text" value="Fieldset"/>
+ Resume	field_profile_resume_link	Link
+ Resume Upload	field_profile_resume_upload	File
+ Birthday	field_birthday	Date

Organic Groups



Organic Groups

You are the group manager

Add to group:

Poll

Event

Ideas

Thread

Group type *

Not a group type

Group type

Groups views

og_nodes (Defaults)

Add to group

- Poll
- Event
- Ideas
- Thread

Group visibility *

- Public - accessible to all site users
- Private - accessible only to group members

Group register *

- Do not show on registration page
- Show on registration page

Organic Groups

- > **Add people**
 Add group members.
- > **People**
 Manage the group members.
- > **Roles (read-only)**
 View the group roles.
- > **Permissions (read-only)**
 View the group permissions.

PERMISSION	NON-MEMBER	MEMBER	ADMINISTRATOR MEMBER
Organic groups			
Edit group Edit the group. Note: This permission controls only node entity type groups.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Administer group Manage or block users, and manage their role assignments in the group.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Edit own <i>Poll</i> content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Edit any <i>Poll</i> content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NAME	OPERATIONS
non-member	locked view permissions
member	locked view permissions
administrator member	locked view permissions

Organic Groups

Organic groups UI

Subscribe user to group

Allow user to be a member of a group (approval required).



Subscribe user to group (no approval required).

Allow user to be a member of a group without an approval of the group administrator.



Unsubscribe user from group

Allow user to be remove membership from a group.



Approve and deny subscription

Allow user to allow or deny another user's subscription request.



Add user

Add a new user to the group.



Organic Groups

> Group views settings

Configure group views.

> Organic groups context

Organic groups context detection and selection

> Organic groups field settings

Configure Organic groups fields in bundles.

> Organic groups global permissions

Configure Organic groups global permissions.

> Organic groups global roles

Configure Organic groups global roles.

> Organic groups membership types

Manage group memberships type, including fields.

> Organic groups settings

Administer the Organic groups settings.

Group context detection

Order of Group context detection methods.

Show row weight

DETECTION METHOD	DESCRIPTION	ENABLED
⊕ URL	Select groups if they were passed in the URL (e.g. node/add/post?gids_node[]=4,5,6).	<input checked="" type="checkbox"/>
⊕ Node	Determine context by checking if a node is a group or a group content.	<input checked="" type="checkbox"/>
⊕ User edit	Determine context by checking if a user is a group or a group content on the 'user edit' page.	<input type="checkbox"/>
⊕ User view	Determine context by checking if a user is a group or a group content on the 'user view' page.	<input type="checkbox"/>

Organic Groups

Bundles

Group

Fields

Group type

- group**
 - Group type
 - Group roles and permissions
 - Group visibility
 - Group content links
 - Group register
 - Groups views
- group content**
 - Groups audience
 - Group content visibility

Poll - Node entity

Thread - Node entity

Group - Node entity

FIELD	DESCRIPTION	OPERATIONS
Group type	Determine if this should be a group.	Delete
Groups views	Add Group Views field to fieldable entities that are groups.	Delete
Group content links	Add content creation links based on group context.	Delete
Group register	Add Group register field group types.	Delete
Group visibility	Add Group access field to group types.	Delete

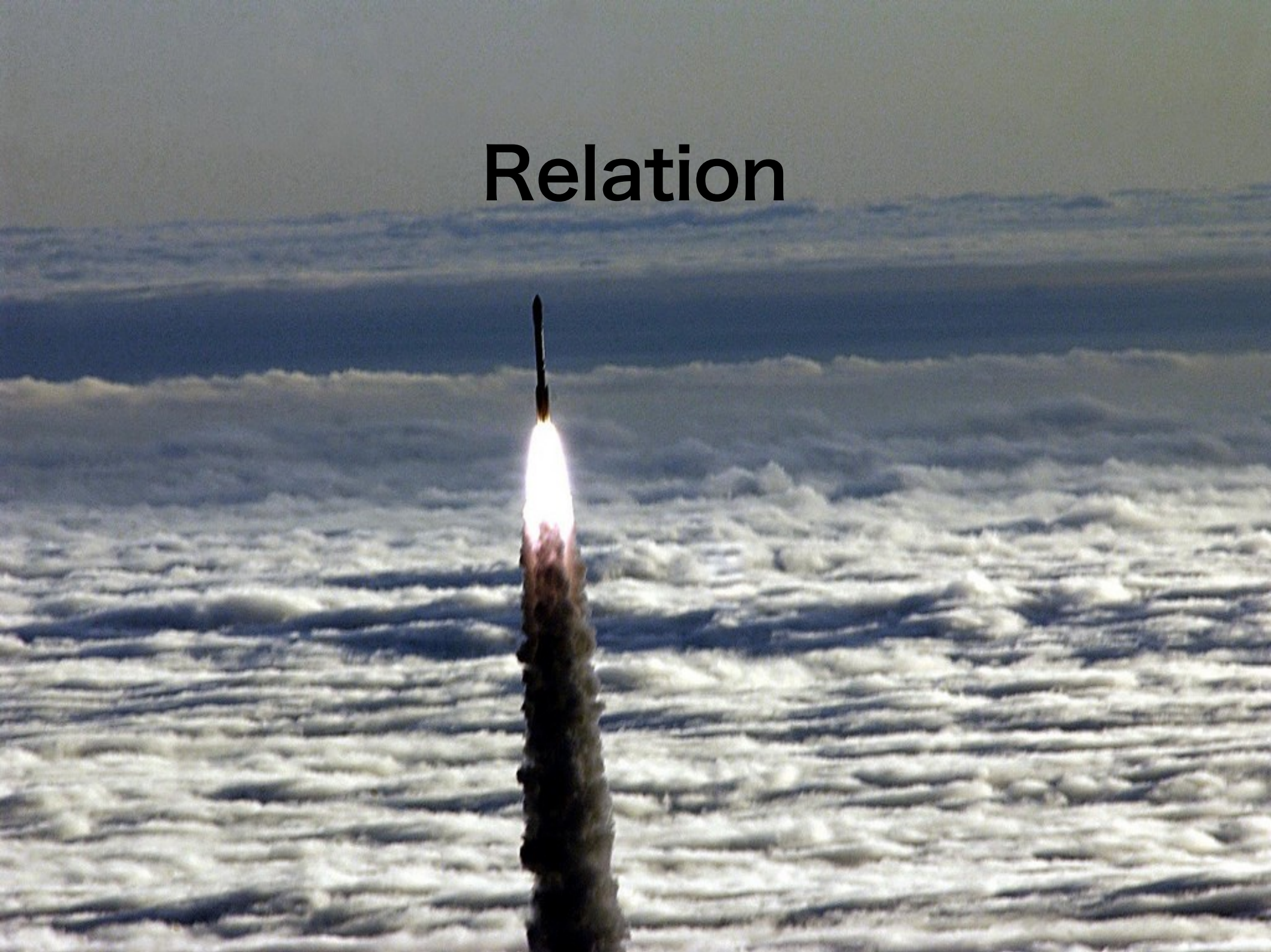


Relationships



Nodereference
User Reference
Entity Reference
Drupal Commerce

Relation



Relation

- New Entity that lives between others
- Stores a list of Nodes, Users, etc
- Fieldable!
- Johan Falk - “Learn the Relation module”
<http://dev.nodeone.se/node/970>

Relation

Relation type

worked with

Entity

user: DarrenMcDaniel

Pick

Picked entities

- user: ryanprice
- user: DarrenMcDaniel

Create relation Clear

This block shows all loaded entities on the page. Entities picked stay in the Entity Collector until cleared or a relation is created so it is possible to collect the entities from several pages.

“Fields with Fields”

Field Collection



Field Collection module

- http://drupal.org/project/field_collection
- Adds a field that is the Create form for a new Entity type
- Admin > Structure > Field-Collections
 - Manage Fields, Manage Display
- See also [field_collection_table](#) project
 - Formats the entity as a table instead of fields or a list of titles

Field Collection module



caprep/field-collection/field-performances/1

Name	Showtime	TheatreManager ID	Operations
Preview	Tue, 2011-11-15 19:30	6895	<ul style="list-style-type: none">• Edit• Delete
Opening Night	Wed, 2011-11-16 19:30	6896	<ul style="list-style-type: none">• Edit• Delete
Man of la Mancha	Thu, 2011-11-17 19:30	6897	<ul style="list-style-type: none">• Edit• Delete

Field Collection module

PERFORMANCES:	NAME	SHOWTIME	THEATREMANAGER ID
+	<input type="text" value="Preview"/>	SHOWTIME <input type="checkbox"/> All Day Date <input type="text" value="2011-11-15"/> E.g., 2011-10-21 Time <input type="text" value="19:30"/> E.g., 20:15	<input type="text" value="6895"/>
+	<input type="text" value="Opening Night"/>	SHOWTIME <input type="checkbox"/> All Day Date <input type="text" value="2011-11-16"/> E.g., 2011-10-21 Time <input type="text" value="19:30"/> E.g., 20:15	<input type="text" value="6896"/>



View Modes

(Build Modes, Node Display)

Entity View Mode

MANAGE DISPLAY

COMMENT FIELDS

COMMENT DISPLAY

Teaser

Default

MANAGE DISPLAY

COMMENT FIELDS

COMMENT DISPLAY

Large Poster

Small **Poster**

Education

Teaser

Default

Entity View Mode

▼ CUSTOM DISPLAY SETTINGS

Use custom display settings for the following view modes

Full content

Teaser

RSS

Search index

Search result

iCal

Education

Small Poster

Large Poster

Tokens

FORMAT

Format: [Unformatted list](#) | [Settings](#)

Show: [Content](#) | [Education](#)

View mode

Education ▼

Full content

Teaser

RSS

Search index

Search result

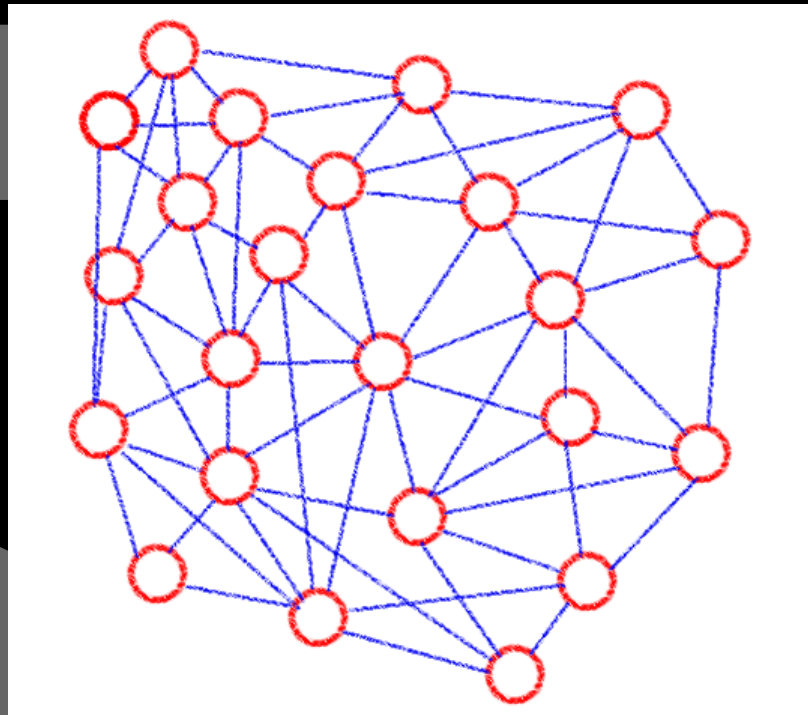
iCal

Education

Small Poster

Large Poster

Tokens



Beyond Contrib

hook_entity_info() profile2

- 'label' => t('Profile'),
- 'entity class' => 'Profile',
- 'controller class' => 'EntityAPIController',

- 'label' => t('Profile type'),
- 'entity class' => 'ProfileType',
- 'controller class' => 'EntityAPIController',

- profile2_entity_info_alter()
- profile2_get_types()

Wolfgang Ziegler (fago)

<http://wolfgangziegler.net/article/Drupalcity-Entity-API-talk-slides>

Entity Construction Kit



Entity Construction Kit

Entity Type ⊕

[Home](#) » [Administration](#) » [Structure](#) » [Entity Type](#)

Entity Type *

Machine name: muppet [\[Edit\]](#)

A human readable name for the entity type

Bundle (optional)

Machine name: monster [\[Edit\]](#)

A bundle with the same name as the entity type is created by default, this will override the default

▼ PROPERTIES

Note: unchecking will delete the property and all data stored within!

UUID

Author

Created

Changed

State

Save



RyanPriceMedia.com

[@liberatr](https://twitter.com/liberatr)

slideshare.net/liberatr

FloridaCreatives.com