Website Conception with Drupal 6

**Uploading photos
and Photo Galleries**

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Check modules

Modules to install for this session:

- IMCE (http://drupal.org/project/imce)

- ImageField (http://drupal.org/project/ImageField)

- ImageCache (http://drupal.org/project/ImageCache)

- Filefield (http://drupal.org/project/FileField)

- ImageAPI (http://drupal.org/project/ImageAPI)

Go to *admin/build/modules* and enable the following modules: FileField, ImageField, ImagAPI, ImageAPI GD2, ImageCache, ImageCacheUI, IMCE

Ways to add images on the website

- Inside the node (IMCE)

- As a separate node (Image Assist)

- As a field in a content type (ImageField)

- As a gallery (special content type) (CCK)

- As a view (Views)

Images inside the node

- IMCE module - used with BUEditor.

- Allows to upload images that pop-up in a new window and insert in an image insdie the post.

- Helps restrict file size, set quotas on total space a user may take up on the server.

- It can be separated into directories for each user or all images to be in 1 directory.

- (Hands-On: Adding an image to a node).

- **Image Assist** - forces each image attached to be its own "image" node, which allows posting comments on each image or assembling galleries of images used in other posts. Generates thumbnails of other images.

- **ImageField** - handles the upload and the storage of images. A CCK field that allows photo uploads. Not providing a way to create thumbnails. Depends on FileField.

- **ImageCache** (goes well with ImageField) - generates thumbnails, scales the images for display in the view.

ImageField

- Provides a reusable field for image handling.

- Possibility to configure it so that many images can be uploaded on a single node.

- Possible also to add multiple fields to a single content type, in case a piece of content has the need for multiple images, each with specialty uses.

Configuring ImageField

1) Upload the module in /sites/all/modules

2) Enable the module from /admin/modules

3) Adds a new field on the fields form for setting up a new or existing content type (admin/content/types).

4) Configuration:

 - some of the options are same for all CCK fields, such as: Label, Widget type, Required, Number of values.

 - others are unique for the ImageField:

* Maximum resolution (if the image is too large, the image is scaled down proportionally to fit within the max resolution)

* Minimum resolution (if the image uploaded is too small, ImageField prompts the user for a larger one)

* File path (the images are stored in a specific directory withing the files directory. admin/site configuration/file-system). You can order the images by content type images/events images/blog).

* Title/ALT Text (if enabled, each one of these options will present the user with an additional field for the value of the alt and title attributes of the image when it is displayed. Alt - never displayed to the end-user, but is good for accessibility; the title should be displayed as a tool tip when a user hovers the mouse over the uploaded image).

* Default list value/How should the list value be handled? ("Generic file display" formatter = images are displayed as a list. If the listed option is used as the default, the uploaded images will be included in the list. "User configurable" = choice of listing the file when they upload the image. Only images that are checked are listed).

Hands-ON: Uploading Photos

Task: to create a form with which to upload photos with some taxonomy terms that will use to create a browsable photo gallery. Users will be able to upload full-resolution photos through ImageField.

1) Modules to enable (admin/build/modules): CCK - Content, Field, ImageField; Core - Taxonomy

2) Create a new content type (admin/content/types), "Add new content type" (Name: Photo, type: photo, title field label: Title; Body field label: Caption).

3) Click "Manage fields" of the Photo type (admin/content/node-type/photo/add_field).

4) Create a field (Label: Photo, Field name: photo, Select a field type: File, Select a widget type: Image)

5) Setting up the photo field within the Photo content type (Photo and Global settings):

* Permitted upload file extentions jpg jpeg png gif

* Maximum reolution for images 0

* Minimum resolution for images 0

* Path settings: File path photos

* Required (checked)

* Number of values 1

Note: the max resolution = 0 means that there is no limit to the resolution for the uploaded images.

Note: path settings = photos means that we create a file subdirectory where the uploaded photos in the Photo content type will be stored.

6) Return to the list of fields in the Photo content type. Order the fields: Title, Photo, Caption, Menu settings.

7) Add permissions (who can upload images to this content type) (admin/user/permissions) and add permissions for each user type.

* Create photo content (authenticated user)

* Delete any photo content (editor, admin)

* Delete own photo content (authenticated user)

* Edit any photo content (editor, admin)

* Edit own photo content (authenticated user)

8) Now upload several new photos by visiting Create content->Photo (node/add/photo).

Image Galleries

"O"- Grouping photos under a name or category. In Drupal this could be done with the Taxonomy module. We can set up several predefines galleries by creating a vocabulary with term for each gallery.

1) Go to admin/content/taxonomy (Administer->Content management->Taxonomy)

2) Click "Add vocabulary"

3) Enter the vocabulary form: Name: Gallery, Content types: Photo; Settings Required (checked), Weight -1

4) Return to the main Taxonomy page and "Add vocabulary" again to set up the free tagging

5) Enter the vocabulary form: Name: Tags, Content types: Photo; Settings Tags (checked) We

6) Click "Add terms" on the Gallery row to populate the site with several starter galleries. The only required field is *name*. Create several.

7) Now upload new photos by placing into a Gallery Create conent->Photo (node/add/photo) which should now contain a drop-down list of galleries and a text field for tags.

* The weight -1 to the Gallery tagging and 0 to the free tagging is done so that the Gallery appears on the first place while the free tagging - on the second. Note that the Gallery one is required, while the other one - not.

Gallery tags will be categories defined only by the site administrator, while the free tagging will be on the choice of the users.

ImageCache

- ImageCache (admin/build/immagecache): image manipulation tool online, used to resize images, to create thumbnails, croping, scaling. The "cache" part of ImageCache comes after it has been manipulated.

- Presets = name + actions that need to be performed on this style of image. Presets can be added, edited, deleted or flushed. The Flush option helps to clear out all the created images for the preset.

Note: The preset name takes part of the URL, so keep it short, all lowercase, no special caracters. You can use a name which will describe the type of images will be stored in the preset: ex. thumbnail.

Note: When editing the preset, all cached files will be flushed so that they can be regenerated. This helps changing the thumnails from 100px to 120px, and to apply it on the whole site at once.

Actions to perform with ImageCache

- **Crop** - allows to trim off edges of the image that are not wanted. Crop values are top, right, bottom, left and center.

- **Resize** - used to force the image to a particular dimension. Wight and height values can e integers to scale to a specific pixel size, on inlude the percent symbol to scale to a percentage.

- **Scale** - sizes images proportionally. Enter either a width or height. The dimension without value will e determined by scaling the image to the given dimension. Allow upscalig is an option to enlarge images to the entered dimensions.

- **Scale and crop** - combinations of the two actions. The image is scaled till one dimension fits within the given size, and the larger dimension is cropped off (helpful when using square thumbnails).

CCK Formatters added by ImageCache

1) image linked to a node

Displays the image in the given preset size, linked to its "parent" node.

2) image linked to image

Displays the image in the given preset siez, linked to the unaltered version of the image.

3) file path

Displays the path to the given preset image only. Used for debugging.

4) URL

Displays the URL to the given preset image only. Used for debugging.

Using the Presets

After setting up presets in ImageCache, you should indicate where these should be used.

* In CCK: ImageField and FileField provide options to display the images full-size or in a generic file list. After configuring the presets, an additional option (presets) appears.

* With Views module, which allows to create displays such as a grid list of image thumbnails.

Hands-On: ImageCache

Aim: Creating thumnails and configuring the Photo content type to use these thumbnails.

1) Check that Clean URLs are enabled (admin/settings/clean-urls)

2) Enable the following modules (admin/build/modules): ImageCache (ImageAPI, ImageGD2, ImageCache, ImageCache UI)

3) Go to ImageCache (admin/build/imagecache) and click "Add new preset"

4) Enter the name "thumbnail" and click the Create New Preset button.

5) Configure the new preset: Add Scale and Crop (enter the values: weight = 0; width = 100; height = 100) and click on Add action.

Hands-On: Configure Photo FieldDisplay

(configuring the Photo content type to display thumbnails)

1) Go to Content types (admin/build/types) and click Edit for the Photo type.

2) Click the "Display fields" (admin/content/node-type/photo/display).

3) Change the settings for the Photo field:

  * Label <hidden>

  * Teaser thumbnail image linked to node

  * Full node thumbnail image linked to image

4) Try uploading several photos from the Create Content Photo content type to see how it looks like.

Improving Image Quality

The image on the thumbnail is set for 75% of the quality.

ImageAPI is a module used for setting the quality when processing jpeg images

1) Go to admin/settings/imageapi. Click on Configure.

2) Set the jpeg quality to 90% or 100% and click Save configuration.

3) To see the effect, visit he ImageCache page (admin/build/imagecache) and click the flush button for each preset. The new images will be regenerated the next time they are displayed.

Hands-On: Gallery View

Aim: to display the thumbnailed images on a single page.

1) Go to Modules administration (admin/build/modules) and enable the following modules: Advanced Help and Views, Views UI

2) Go to the View administration (admin/build/views) and click the add tab at the top of the page to make a new view.

 Create a new view with:

  * Name: gallery

  * Description: a gallery display of images

  * View type: node

3) Select a display: Page and click Add display.

4) Configure the Page settings:

  * Path: gallery

  * Menu: Type: Normal menu entry; Title: Galleries

6) Configure the Basic settings of the new view with:

* Title: Galleries
* Style: Grid
* Number of colomns: 4
* Alignement: Vertical
* Use pager: Full pager
* Items per page: 20
* More link: Create more link (checked)
* Empty text: No photos yet!

5) Configure the Fields section:

* Content: Image (field_photo) (Format: thumbnail image linked to node); Label: none)

6) Add some filters (only published photos). Add the fillowing fields:

    * Node: Published (check "Published")

    * Node: Type (Is one of "Photo")

    * Taxonomy: Vocabulary (Is one of "Gallery")

7) Configure the Sort criteria to order the photos.

    * Add Node: Post Date (descending)

8) Click the Live Preview to view the display.

To visualise the view on the website the photos are categorised by their gallery names.

4) To display the photos in a particular gallery, our page view is going to use an **argument**. Click the + icon in the Argument section, check Taxonomy Term ID and click Save.

5) Configure the new argument:

* Title: %1

* Action to take if argument is not present:

   Summary, sorted ascending

* Validator: Taxonomy term

* Vocabularies: Gallery

* Set the breadcrumb for the term parents (checked)

6) Click update to choose the default settings.

7) Click Save to save your view.