

# Photogallery

Extension Key: **maag\_photogallery**

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## Introduction

### What does it do?

The Photogallery is a plugin to show pictures on the internet. Pictures can be stored either in the filesystem or in the database. By the pictures in the filesystem, each folder is a album. With the plugin you can show albums and its pictures. In the database you have to define categories with a sysfolder structure.

The plugin can read the embedded datas (EXIF, IPTC, ...) from a image.

The Layout is designed in typoscript.

### Requirements

This extension requires TYPO3 4.2.0+.

PHP Version 5.2+

Imagemagick or graphicsmagick for some picture effects.

### Languages

The extension is currently available in GB English (default) and German.


### Labels and localization

You may adapt the labels in locallang.php in the pi1 folder to to your needs and languages.


## Screenshots – Show Albums

### Fotogalerie


Pfad: Fotos




1. September 2011



Integral Coach



Mental Trainer










Prozesswoche








## Screenshots – Show Images





### Fotogalerie

Pfad: [Fotos](#) | [Mental Trainer](#) | [Diplomfeier](#)

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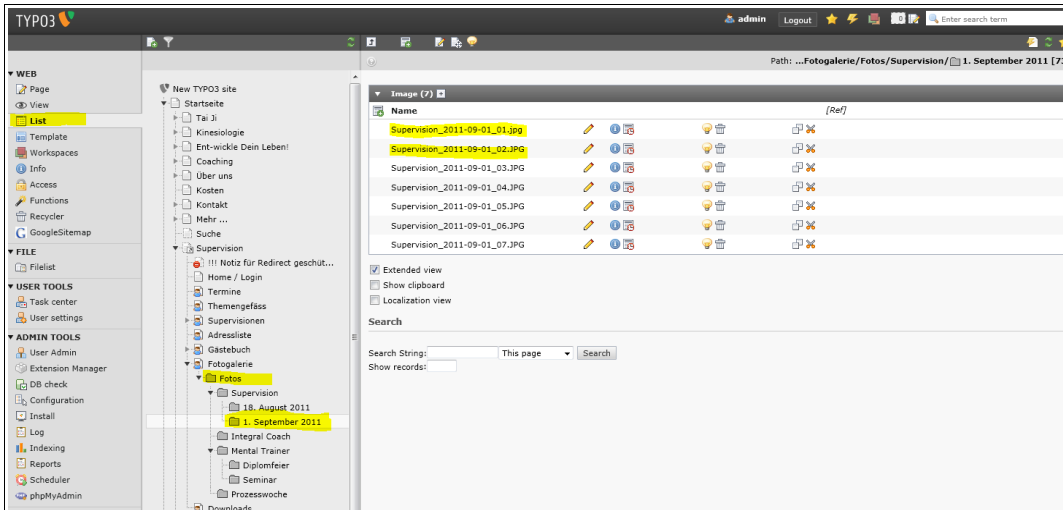




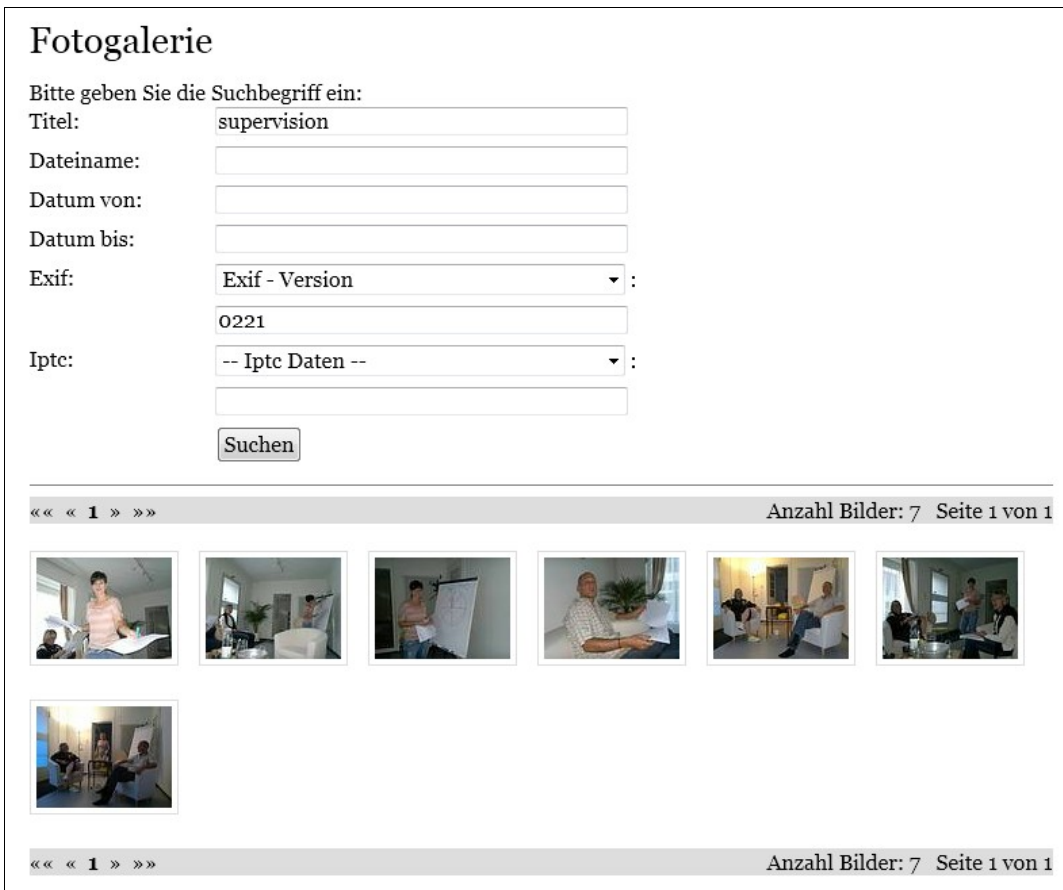


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## Screenshots – Sysfolder Structure of Albums



## Screenshots – Search View



# Users manual

First, the extension must be installed. After the extension is installed, you can insert the plugin over the Plugin-Section Choose the Plugin “Photogallery”.

Configure the plugin over flexform. See the description of properties in the Configuration section.

## Defining Albums an Images

You can define the images in a filesystem folder structure or with sysfolders in the typo3 database. Use the properties “readFromDatabase”, “pages” and “startAlbum” for choosing filesystem or database.

### Filesystem

Make a folder structure in the fileadmin folder. For example:

- Fotos
  - Countries
  - People
    - European
    - Africans
- Studio
- Natur
  - Spring
  - Summer
  - Winter

Take your image files in this folders. The filename without extension is taken as image title. Make “album.acc” and “<imagefilename>.acc” files for setting access rights to your albums and images. (See Chapter “Access – Access Rights in Filesystem”).

Set the property “startAlbum” in typoscript (or over flexform in the plugin). For example “fileadmin/Fotos”.

### Database

Make a sysfolder structure in your page structure of typo3. The name of the sysfolder is the name of the album. For example:

- Fotos
  - Countries
  - People
    - European
    - Africans
- Studio
- Natur
  - Spring
  - Summer
  - Winter

Copy your image files to the fileadmin folder.

Add in each sysfolder the image records (List – Add new Record – Image) and define the physical path of the image.

Set the properties “readFromDatabase” to “1” and “pages” to the Root sysfolder of the images (Fotos).

Set the user and usergroups rights to your Records as usual in typo3 content element.

## Defining the Layout over Typoscript

This extension uses no template files. The hole Layout can be defined over typoscript. See the “Configuration - TypoScript Reference Layout” Chapter.

## FAQ

### If a image contains corrupted Image Datas, would Warnings be showed?

To show Warnings on corrupted image datas you can set the “config.debug” Property to “1”. If the Property is set to “0”, no Warnings are shown.

# Configuration

## General

There are 2 configurations for the plugin. The functionality of the plugin can be defined in typoscript or over flexform of the plugin. The Layout is made also with typoscript, see the file "ext\_typoscript\_setup\_example.txt".

## TypoScript Reference Functionality

Please note the following properties TS template setup.

Property:	Data type:	Description:	Default:
startAlbum	string	The file path of the beginning albums (subfolders), if "readFromDatabase" is not set. If "readFromDatabase" is set, this configuration can be empty.	
readFromDatabase	bool	Read albums and images from filesystem or from the database.  If this property is set, you can make several albums with a sysfolder structure.	0
pages	int	Starting point of Records, if "readFromDatabase" is set	
recursive	int	Reading levels from starting point (if "readFromDatabase" is set) - 0 = current page only - 1 = 1 level - 2 = 2 levels - 3 = 3 levels - 4 = 4 levels - 5 = infinite	
readAlbumsRecursive	bool	Reading albums recursive. That means, that all also all Subalbums are readed. Each Album have a property "level", that you can define, which level has which layout	0
suppressEmptyAlbums	bool	Suppress empty albums or not	1
backLinkOnSubAlbums	int	Define on which depths of a album there is generated a backlink to the parent album. Use values like follows: -1 show backlink on all levels 0 show backlink on all levels except level 1 1,2,3... show backlink on levels, defined in comma-separated list  The backlink text can be overwritten in the locallang.xml, key "PARENT_ALBUM_LINK"	0
albumImageType	int	Each Album can have a image. There are several types of images to show: 0 no image for albums 1 first image in given album 2 random image of given album 3 specific image file (define in "albumImageFile" property)	0
readAlbumImagesRecursive	bool	Read image files for the album image recursively in given albums and its subalbums	0
albumImageFile	string	path and file name of a image for showing the album image	
albumSortField	string	name of a album property to sort: - id - title - level - currentAlbumLevel	
albumSortOrder	string	order of the sort: - asc - desc	asc
imageData	bool	read image data from image files	0
dictItem.exclude	string	coma separated list of image data keys to exclude. Used for embeded image datas, see "imageDataItem".	
dictItem.suppressEmptyFields	bool	Suppress key/value pairs, if value is empty. Used for embeded image datas, see "imageDataItem".	0

Property:	Data type:	Description:	Default:
imageSortField	string	name of a image property to sort: - id - title - filename - path - pathAndFilename - creatat - jpg ... (any jpg key, see properties of "imageDataItem") - jfif ... (any jfif key, see properties of "imageDataItem") - exif ... (any exif key, see properties of "imageDataItem") - iptc ... (any iptc key, see properties of "imageDataItem") - xmp ... (any xmp key, see properties of "imageDataItem") - camera ... (any camera key, see properties of "imageDataItem") - irb ... (any irb key, see properties of "imageDataItem")	
imageSortOrder	string	order of the sort: - asc - desc	asc
itemsPerPage	int	Count of images shown per page. 0 means, that all images are displayed on the first page	0
pageNumbersCount	int	On the paging bar, you can define how many "page links" are shown. 0 means, no page links are shown; -1 means, so many page links are shown, as many as pages there are.  Example: 4 page links are shown, there are more than 4 pages.  << < 2 3 4 5 > >>	-1
latest.count	int	Count of latest images	
latest.field	string	Field which defines the date time of the image age. Can be as follows: - creatat (if the images are reading from the database, the record-creatat else the it is the image file creatat) - exif Date and Time	Creatat
search.showAllImages	bool	If no search phrase is given, show all images? If not set, no images are shown, if no search phrases are given	0

## TypoScript Reference Layout

Property:	Data type:	Description:	Datas:
code	COA	<p>Display types. Available values are</p> <ul style="list-style-type: none"> <li>- album show albums only</li> <li>- album_image show albums and images</li> <li>- latest show latest images</li> <li>- search show search form</li> </ul> <p>You can use the CASE command to define the several display types</p> <p><b>Display Type "Latest"</b>  For the display type "latest" the Properties "albumTitle", "albumItems" and "albumCount" are empty. This display type can be used for selecting the newest photos over all albums.</p> <p><b>Display Type "Search"</b>  For the display type "search" the Properties "albumTitle", "albumItems" and "albumCount" are empty.</p> <p>For searching, the parameters as follows are valid to use:</p> <ul style="list-style-type: none"> <li>- searchTitle</li> <li>- searchFilename</li> <li>- searchDateFrom</li> <li>- searchDateTo</li> <li>- searchEmbeddField&lt;n&gt;</li> <li>- searchEmbeddPhrase&lt;n&gt;</li> </ul>	code string albumTitle array breadcrumb path of album. see "albumPathItem" albumItems string The album items. see "albumItem" albumCount int The count of albums (to use to show a "no albums found" message) imageItems string The image items. see "imageItem" imageCount int Total image count of this album pagingBar The paging bar. see "pagingBar"

Property:	Data type:	Description:	Datas:														
		<p>That means, that you can give the url-parameter with these fields, e.g.: &amp;tx_maagphotogallery_pi1[searchTitle]=Title</p> <p>To search in embedded image datas you can define one or more parameters, named "searchEmbeddField" and "searchEmbeddPhrase". More than one of these parameters can be numbered at the end of this name (e.g. "searchEmbeddField1", "searchEmbeddPhrase1", "searchEmbeddField2", "searchEmbeddPhrase2", etc.)</p> <p>The "searchEmbeddField" Parameter contains the field of the embedded data. For example, if the exif version number is wished, the "searchEmbeddField" contains the value "exif\$Exif Version". You can take any embedded datas, use the prefix "exif\$", "iptc\$", "jpg\$", "jif\$", "xmp\$", "camera\$" or "irb\$" to define the range of the embedded datas. After this prefix, you can define the key as it is written in die image datas. Examples: - Exif Version =&gt; exif\$Exif Version - Iptc Objectname =&gt; iptc\$Object Name (Title) - Iptc Keywords =&gt; iptc\$Keywords - ...</p>															
albumPathItem	COA	<p>The album path item of the breadcrumb path of the album (albumTitle in code property).</p> <p>For linking the album path items, use the url parameter "tx_maagphotogallery_pi1[albumId]=".</p>	<table> <tr> <td>label</td> <td>string</td> </tr> <tr> <td>current</td> <td>bool</td> </tr> <tr> <td>albumId</td> <td>string</td> </tr> </table> <p>the album title is the item the current album? Id of the album</p>	label	string	current	bool	albumId	string								
label	string																
current	bool																
albumId	string																
albumItem	COA	<p>The album item.</p> <p>The album item has a property "level". You can design your album items for each level, shown on the current page, with the CASE property of typoscript.</p> <p>For linking the album items, use the url parameter "tx_maagphotogallery_pi1[albumId]=".</p>	<table> <tr> <td>level</td> <td>int</td> </tr> <tr> <td>title</td> <td>string</td> </tr> <tr> <td>id</td> <td>string</td> </tr> <tr> <td>albumImage</td> <td>IMAGE</td> </tr> </table> <p>The Level of the album (on recursive reading) on the current page The Title of the album. For albums on filesystem the title is the last name of the album path The id of the album (for linking with albumId=) a Image for the album item see "albumImage"</p>	level	int	title	string	id	string	albumImage	IMAGE						
level	int																
title	string																
id	string																
albumImage	IMAGE																
albumImage	IMAGE		<table> <tr> <td>imageFile</td> <td>string</td> </tr> </table> <p>The Filename of the image</p>	imageFile	string												
imageFile	string																
imageItem	COA	The image item.	<table> <tr> <td>id</td> <td>string</td> </tr> <tr> <td>pathAndFileName</td> <td>string</td> </tr> <tr> <td>filename</td> <td>string</td> </tr> <tr> <td>path</td> <td>string</td> </tr> <tr> <td>title</td> <td>string</td> </tr> <tr> <td>credat</td> <td>int</td> </tr> <tr> <td>imageData</td> <td>string</td> </tr> </table> <p>md5 hash of this image file path and filename to the specific image filename without path of the specific image path without filename of the specific image title of the image (if the images are from database, it is the title field of the database, if the images are from filesystem, it is the filename without extension) Unix Timestamp of creation date of image The image datas like jpg, jif, exif, iptc, xmp, camera, irb</p>	id	string	pathAndFileName	string	filename	string	path	string	title	string	credat	int	imageData	string
id	string																
pathAndFileName	string																
filename	string																
path	string																
title	string																
credat	int																
imageData	string																

Property:	Data type:	Description:	Datas:
			<p>datas, embedded in the image see "imageDataItem".</p> <p>jpg ... string the embedded jpg-datas see "jpgItem".</p> <p>jfif ... string the embedded jfif-datas see "jfifItem".</p> <p>exif ... string the embedded exif-datas see "exifItem".</p> <p>iptc ... string the embedded iptc-datas see "iptcItem".</p> <p>xmp ... string the embedded xmp-datas see "xmpItem".</p> <p>camera ... string the embedded camera-datas see "cameraItem".</p> <p>irb ... string the embedded irb-datas see "irbItem".</p>
imageDataItem	COA	<p>The image data item. A image can have embed image datas. This extension can read embedded datas as follows:</p> <ul style="list-style-type: none"> <li>◆ Intrinsic JPEG Information (jpg)</li> <li>◆ JPEG File Interchange Format Information (jfif)</li> <li>◆ Exchangeable Image File Format Information (exif)</li> <li>◆ IPTC-NAA Record of Photoshop Information Resource Block (iptc)</li> <li>◆ Extensible Metadata Platform / Resource Description Framework Information (xmp)</li> <li>◆ Camera specific datas [maker notes] from EXIF-Datas (camera)</li> <li>◆ Photoshop Information Resource Block, without Iptc-Record (irb)</li> </ul> <p>The datas are key/value pairs and if the value is an array, the array was converted to flat key/value pairs splitted with the pipe char ( ).</p> <p>Example: Access the JPG-Data "Image Height": --&gt; Image Height Access the JPG-Data "Components" (Array width (0 =&gt; "Component Identifier", 1 =&gt; "Component Identifier", ...)): --&gt; Components[0] Component Identifier --&gt; components[1] Component Identifier</p> <p>To view all key/value pairs, use the "all" field from the jpg-, exif, etc. Items.</p>	<p>jpg string the JPG-Datas. See "jpgItem".</p> <p>jfif string the JFIF-Datas. See "jfifItem".</p> <p>exif string the EXIF-Datas. See "exifItem".</p> <p>iptc string the IPTC-Datas. See "iptcItem".</p> <p>xmp string the XMP-Datas. See "xmpItem".</p> <p>camera string the camera specific EXIF-Datas. See "cameraItem".</p> <p>irb string the IRB-Datas. See "irbItem".</p> <p>hasData bool Are there image datas available?</p>
jpgItem	COA	<p>Intrinsic JPEG Information of a image file.</p> <p>The datas are key/value pairs and if the value is an array, the array was converted to flat key/value pairs splitted with the pipe char ( ).</p> <p>If you access this datas from the "imageItem" take the prefix "jpg " to the field.</p>	<p>all string all datas. See "dictItem"</p> <p>hasData bool Are there jpg datas available?</p>
jfifItem	COA	<p>JPEG File Interchange Format Information.</p> <p>The datas are key/value pairs and if the value is an array, the array was converted to flat key/value pairs splitted with the pipe char ( ).</p> <p>If you access this datas from the "imageItem" take the prefix "jfif " to the field.</p>	<p>all string all datas. See "dictItem"</p> <p>hasData bool Are there jfif datas available?</p>
exifItem	COA	<p>Exchangeable Image File Format Information.</p> <p>The datas are key/value pairs and if the value is an array, the array was converted to flat</p>	<p>all string all datas. See "dictItem"</p> <p>hasData bool Are there exif datas available?</p>

Property:	Data type:	Description:	Datas:
		key/value pairs splitted with the pipe char ( ). If you access this datas from the "imageItem" take the prefix "exif " to the field.	
iptcItem	COA	PTC-NAA Record of Photoshop Information Resource Block.  The datas are key/value pairs and if the value is an array, the array was converted to flat key/value pairs splitted with the pipe char ( ).  If you access this datas from the "imageItem" take the prefix "iptc " to the field.	all hasData string all datas. See "dictItem" bool Are there iptc datas available?
xmpItem	COA	Extensible Metadata Platform / Resource Description Framework Information.  The datas are key/value pairs and if the value is an array, the array was converted to flat key/value pairs splitted with the pipe char ( ).  If you access this datas from the "imageItem" take the prefix "xmp " to the field.	all hasData string all datas. See "dictItem" bool Are there xmp datas available?
cameraItem	COA	Camera specific datas [maker notes] from EXIF-Datas.  The datas are key/value pairs and if the value is an array, the array was converted to flat key/value pairs splitted with the pipe char ( ).  If you access this datas from the "imageItem" take the prefix "camera " to the field.	all hasData string all datas. See "dictItem" bool Are there camera datas available?
irbItem	COA	Photoshop Information Resource Block, without Iptc-Record.  The datas are key/value pairs and if the value is an array, the array was converted to flat key/value pairs splitted with the pipe char ( ).  If you access this datas from the "imageItem" take the prefix "irb " to the field.	all hasData string all datas. See "dictItem" bool Are there irb datas available?
dictItem	COA	All fields of a given image data item (jpgItem, exifItem, ...).  Key/value pairs of image datas.	type key value exclude suppressEmptyFields string type of image data ('jpg', 'jif', 'exif', 'iptc', 'xmp', 'camera', 'irb') string Key name of key/value pair string Value of key/value pair string comma separated list with keys to exclude bool Suppress items with empty values?
pagingBar	COA	The paging bar.	currentPage totalPages totalImages firstPage previousPage nextPage lastPage pageNumbers int current page number int total pages int total images string see "firstPageItem" string see "previousPageItem" string see "nextPageItem" string see "lastPageItem" string see "pageNumber"
firstPageItem previousPageItem nextPageItem	cObj	Link to the first page. Link to the previous page. Link to the next page.	page albumId int page-number to navigate string

Property:	Data type:	Description:	Datas:
lastPageItem		Link to the last page.	first      Id of current album bool is this the first page? last        bool is this the last page? current    bool is this the current page? totalPages int Total pages
pageNumber	cObj	Link to the specific page number.  Make a CASE cObj to decide the current and the other page links with the key "current".  See the typoscript property "pageNumbersCount" for define the amount of page links.	page        int page-number to navigate albumId    string Id of current album first        bool is this the first page? last        bool is this the last page? current    bool is this the current page? totalPages int Total pages

## Access – Access Rights in Filesystem

To define access rights for a album (a folder in the filesystem), make a file named "album.acc" and save it in the given album folder. To define access rights for a image, make a file with the same filename as the image, but the extension ".acc". This file must be saved at the same folder as the image is.

In this access files you can define entries as follows (each entry must be written at the begin of a line and the values after the double point does not have line feeds):

users:  
 usergroups:  
 access:

### users:

One or more l'ds of users with access. If you use more than 1 id, make a coma separated list. You can use the entry "users:" more than one time in the same file. For using "all users" take the placeholder "\*". This placeholder can not be combined with user id's. It must be used alone.

### usergroups:

One or more l'ds of usergroups with access. If you use more than 1 id, make a coma separated list. You can use the entry "usergroups:" more than one time in the same file. For using "all logged in users" take the placeholder "\*". This placeholder can not be combined with usergroup id's. It must be used alone.

### access:

A date and time range to show the image.

Format: dd.mm.yyyy[ hh:mi:ss][-dd.mm.yyyy[ hh:mi:ss]]

If no "to" range is given, the system takes the "31.12.2037 23:56:59".

## Known Issues

### Exception Memory-Limit, or empty page is shown

If you read the embedded image datas (sorting to exif date is set, searching on embedded datas is set or the property "imageData" is set to "1") it can give problems with the memory. In this case, increase the Memory\_Limit in the PHP.ini file (make a restart of apache after changing values in PHP.ini!).

### Calling the page is very slow

If you read the embedded image datas (sorting to exif date is set, searching on embedded datas is set or the property "imageData" is set to "1"), creating the page can be very slow. Reading the embedded image datas takes a lot of time. The extension makes a temporary file with this image datas the first time, a image is reading. This would increase the performance at the second call. If there are problems with the image data, delete the cached image data files in the typo3temp folder.

### Clicking on a link (for example a album or page number), the cached page is shown

Set the "useCacheHash" property to "1" on the typolink.

# To-Do list



# Changelog

Version 1.0.0:

- Initial version.