

Backend Image Manipulation

Extension Key: fdfx_be_image

Language: en

Version: 2.0.0

Keywords: backend image cropping rotation dam

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The content of this document is related to TYPO3
- a GNU/GPL CMS/Framework available from www.typo3.org

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Introduction

What does it do?

Often articles are decorated with images uploaded to the server. These images are optimized to be displayed at a special position or just provide a general overview. But what if an editor just needs a special section for a teaser or a header image or some background for CSS?

Manipulating it on the local computer is requiring additional programs...

As you can imagine: **fdfx_be_image** is the beginning of server-based image processing focused on the TYPO3-Framework. At the moment it provides the capability to crop images. Further functionality will follow depending on requirements.

Starting with version 1.4.0 it is now automatically detected if DAM is available. If so, an icon for image cropping will be added.

That's NEW!

Starting with version 2.0.0 images can be manipulated directly when selected as part of a content element. So far this feature is only available when **DAM** is available. Further, it requires that **dam_ttcontent** is installed.

Due to the usage of DAM, the information, which part of the image is cropped, is stored separately. The processed image will be stored in a folder defined in the setup (i.e.temp/...). If the images in this folder get deleted, images will be generated again based on the DAM information and the cropping sets. This gives you the chance to exchange images if there are any problems e.g. with resolution or artefacts.

Sponsoring

The initial development of this extension was sponsored by www.weltkunst.de.

Sponsoring for version 2.0.0 was done by [bgm GmbH, Munich](#).

Acknowledgment

This extension is based on developments provided by Alf Magne Kalleland at www.dhtmlgoodies.com.

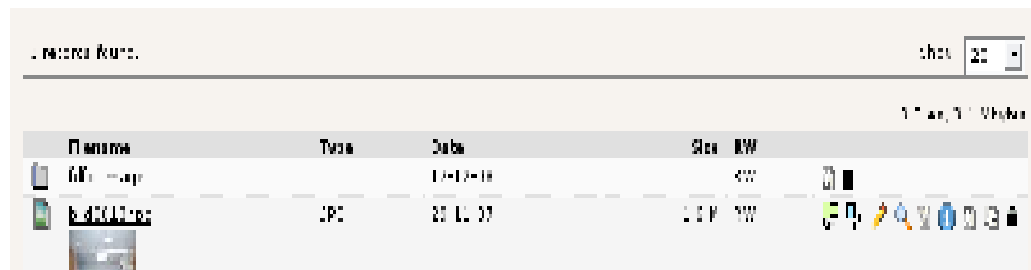
The server-based image cropping was totally rewritten to be compatible with the TYPO3-Framework and meet the security requirements. Additional changes on the original Javascript code for the AJAX communication were required.

Screenshots

Left-clicking on an image in your Filelist provides an additional menu entry: FXImage.



If you have DAM it will look like this:



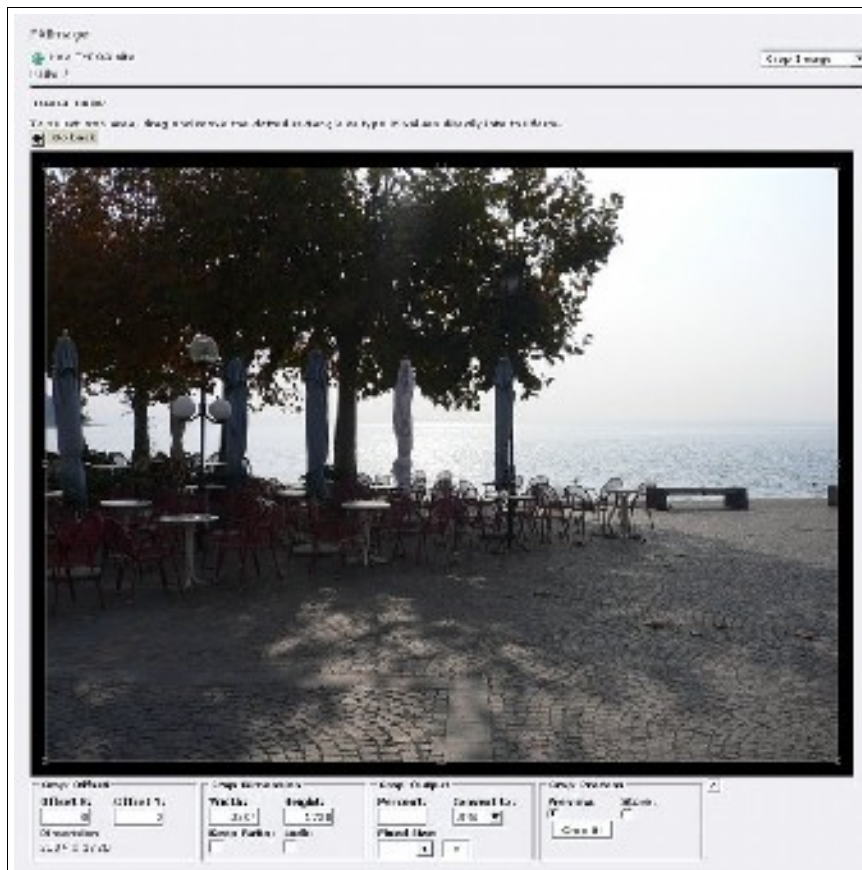
With DAM you get two icons: one for cropping and the second for rotating the image. You will get the image manipulation section. You can either crop, scale or rotate an image.

PDF

The actual version of this manual can be downloaded in PDF format at http://www.4many.net/manual/fdfx_be_image/manual.pdf

Users manual

Image Cropping



Activating **FXImage** or clicking on the cropping icon (DAM) brings up the screen for cropping.

Crop-Offset:

Upper left corner of the selection.

Dimension will always display the original image size.

Crop-Dimension:

Will show the width and height of the selection.

Keep Ratio will ensure that width/height will stay constant when changing either by direct input or by mouse dragging.

Lock will disable changes of width and height by mouse.

Crop-Output:

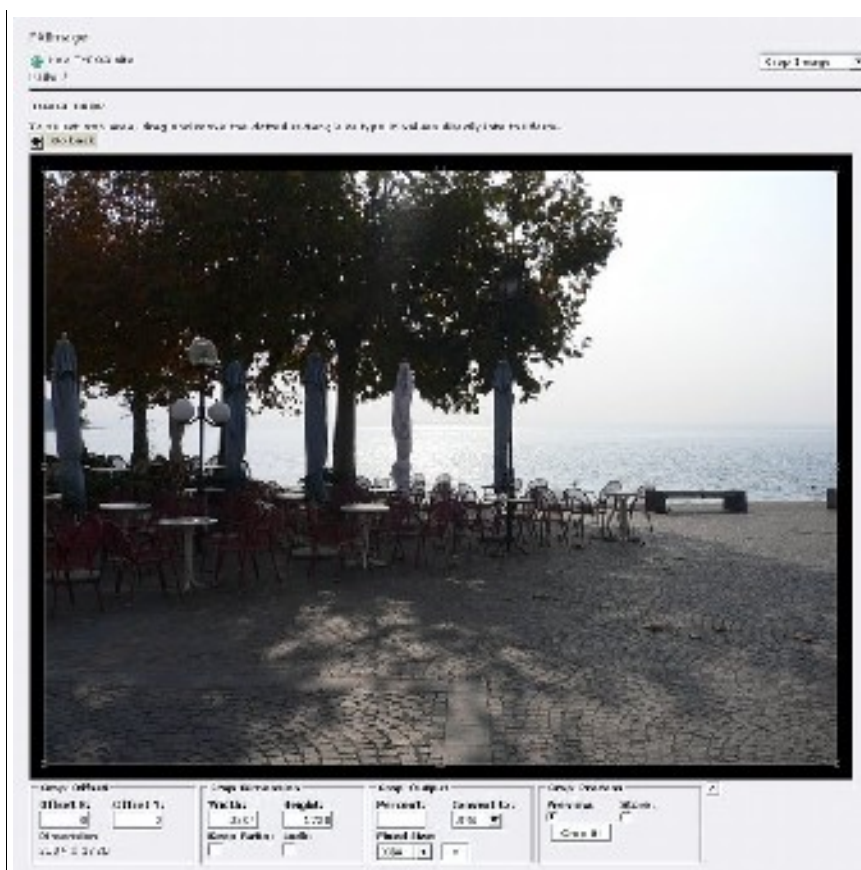
Set the size and format for the final image.

Fixed Size enables to use presets. If you click on + the preset will be transferred to the cropping area while Keep Ratio gets activated.

Presets for Fixed Size can be defined User/Group TSConfig (s. later)

Percent will be overridden by Fixed Size if selected.

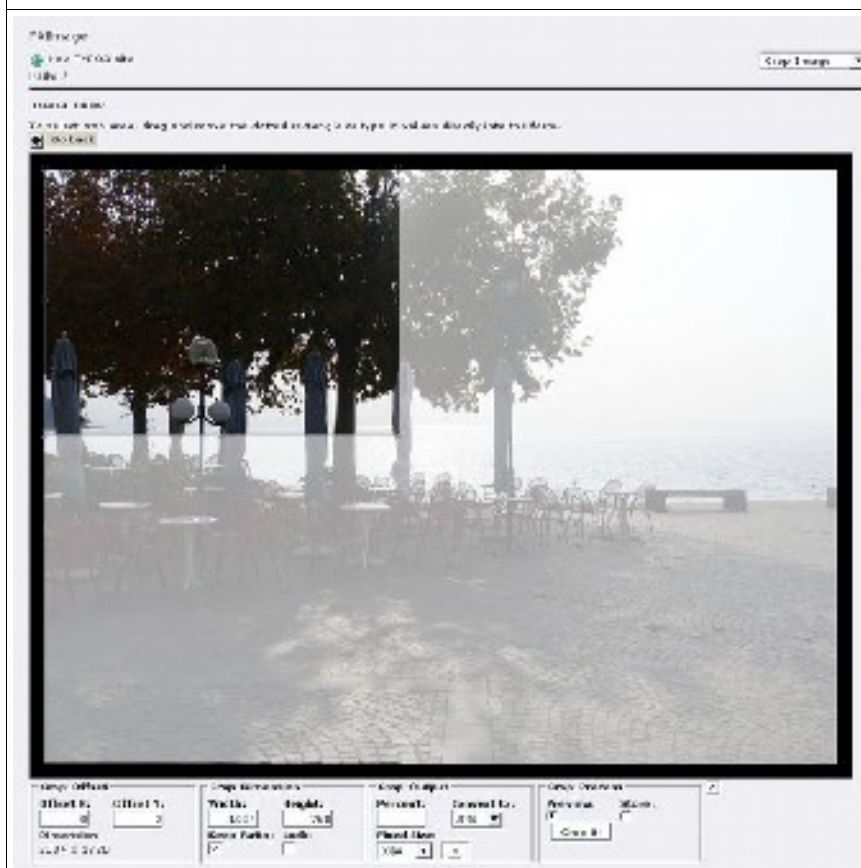
Go back brings you back to the filelist.



By default *Fixed Size* is
640x480 VGA
800x600 WGA
1024x768 XGA

To define that to your need s.
Configuration.

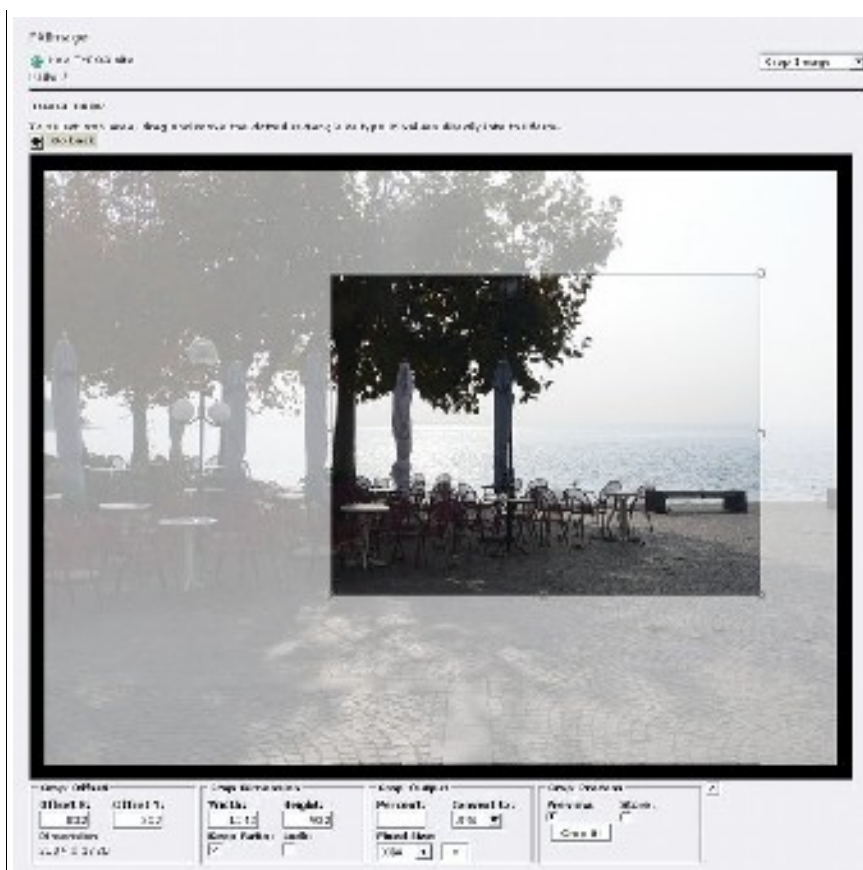
Fixed Size XGA is selected and '+'
will be clicked. Result will be shown
in next image.



The selection area is adjusted to the
selected **Fixed Size** and **Keep Ratio**
is activated.

Now you can select the image area
by moving the selection to the area
you like and resize the selection
until you get the area you want.

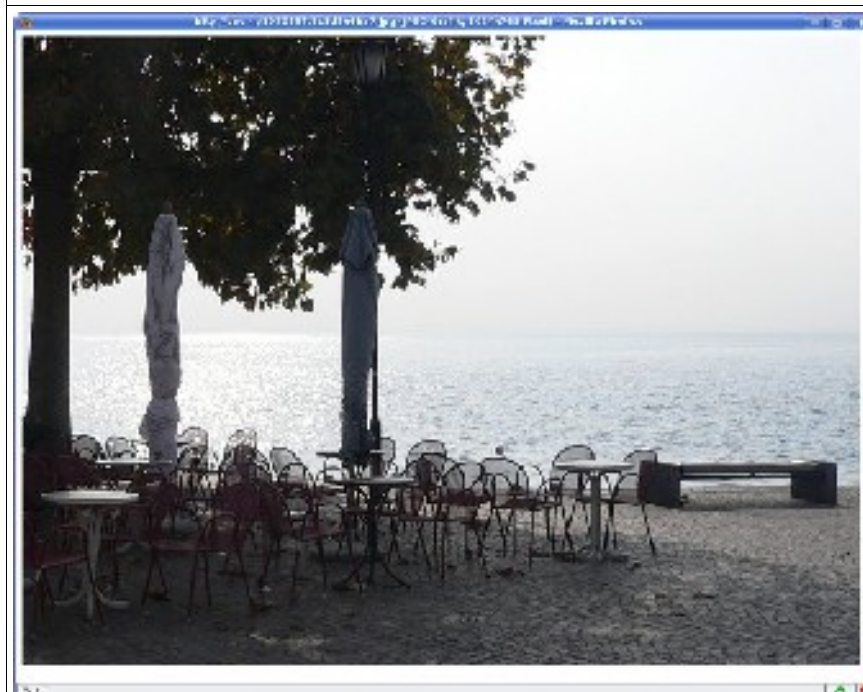
Result is shown on the next image.



We moved the selection and increased the width and height to get the items covered we want in the final image.

Now we click on *Crop It*.

We will get the *Preview* shown in the next image.



The selection got scaled to the selected Fixed Size (here XGA: 1024x768).

TIPP:


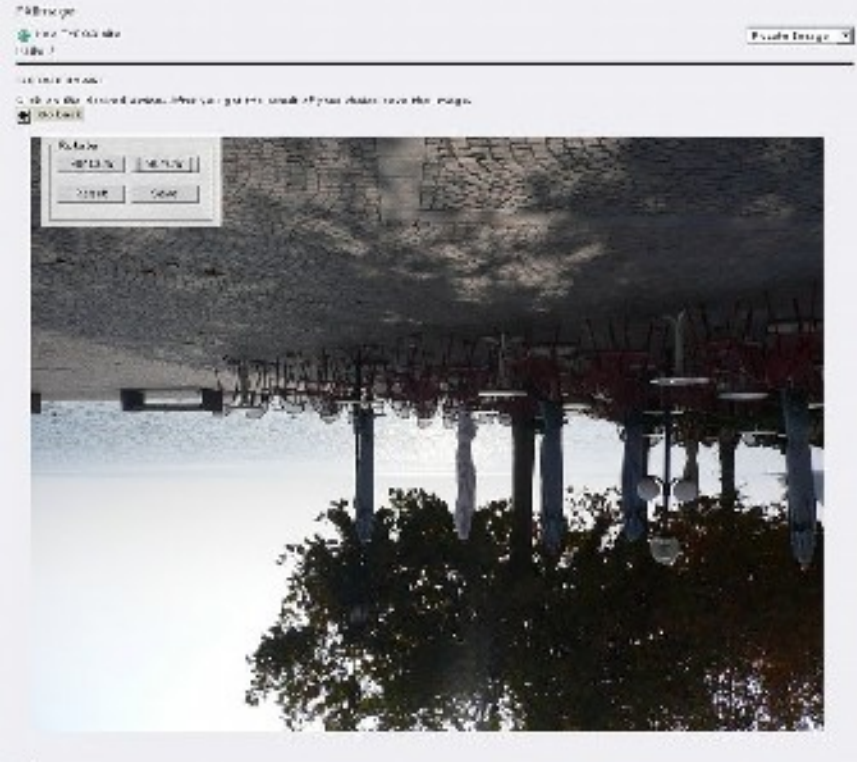
You can use this also to scale your images to the resolution you want without cropping. Just define presets for the required resolution (s. configuration)

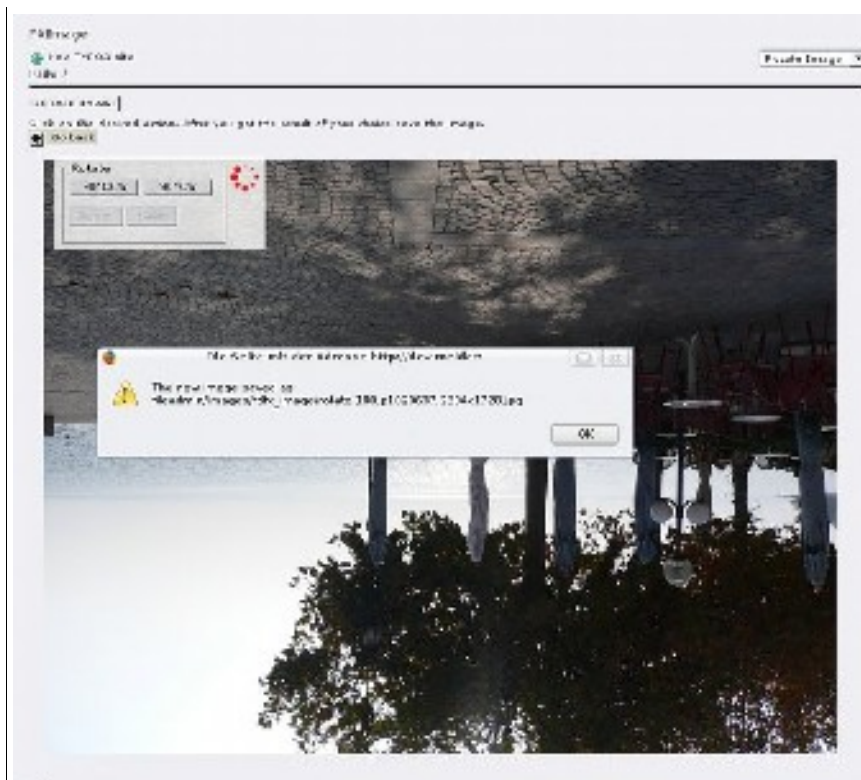


If you want to save the image finally select *Store* before clicking on *Crop It*.

As you see the new filename is calculated automatically.

Image Rotation

	<p>Activating FXImage and the menu item Rotate Image or clicking on the rotation icon (DAM) brings up the screen for rotating.</p> <p>90° CCW Rotates the image by 90° counter clockwise (left turn).</p> <p>90° CW Rotates the image by 90° clockwise (right turn)</p> <p>Save Saves the rotated image to the server.</p> <p>Reset Resets the local image to the last state before save.</p> <p>Save and reset will only be active if there is an action to perform.</p>
	<p>Image rotated twice. The rotation will be performed directly in the browser. To save the rotated image to the server click save.</p>



After saving the image to the server, the new image is automatically loaded.

So you can use this for further actions, e.g. cropping.

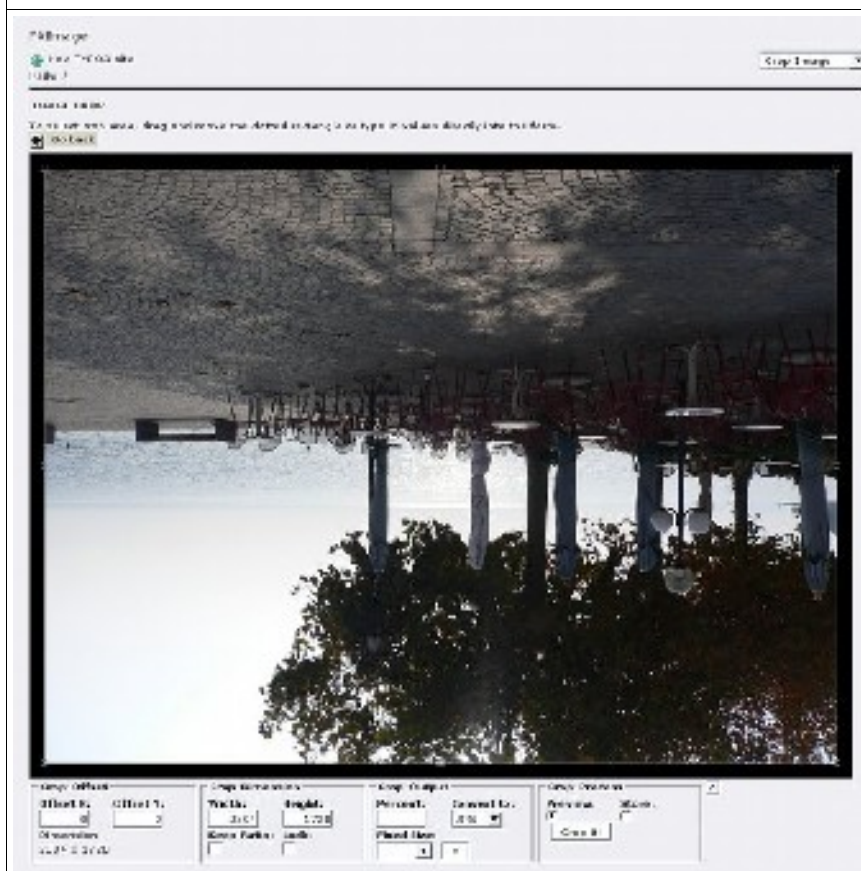
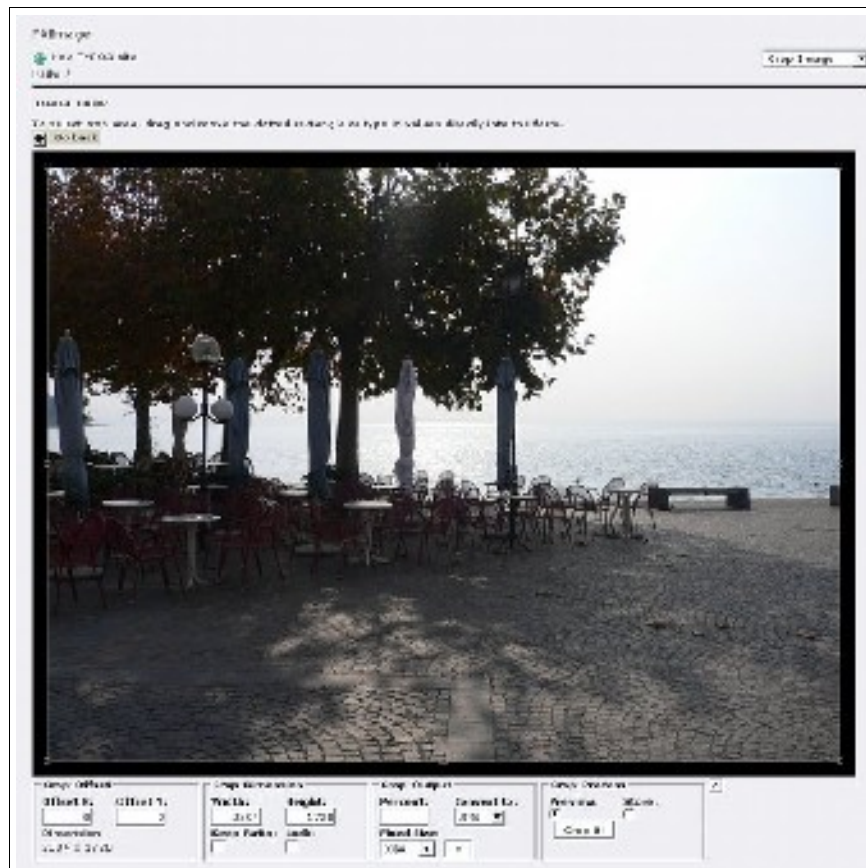


Image Scaling



To perform a image scale start cropping.

Crop-Output:

Set the size and format for the final image.

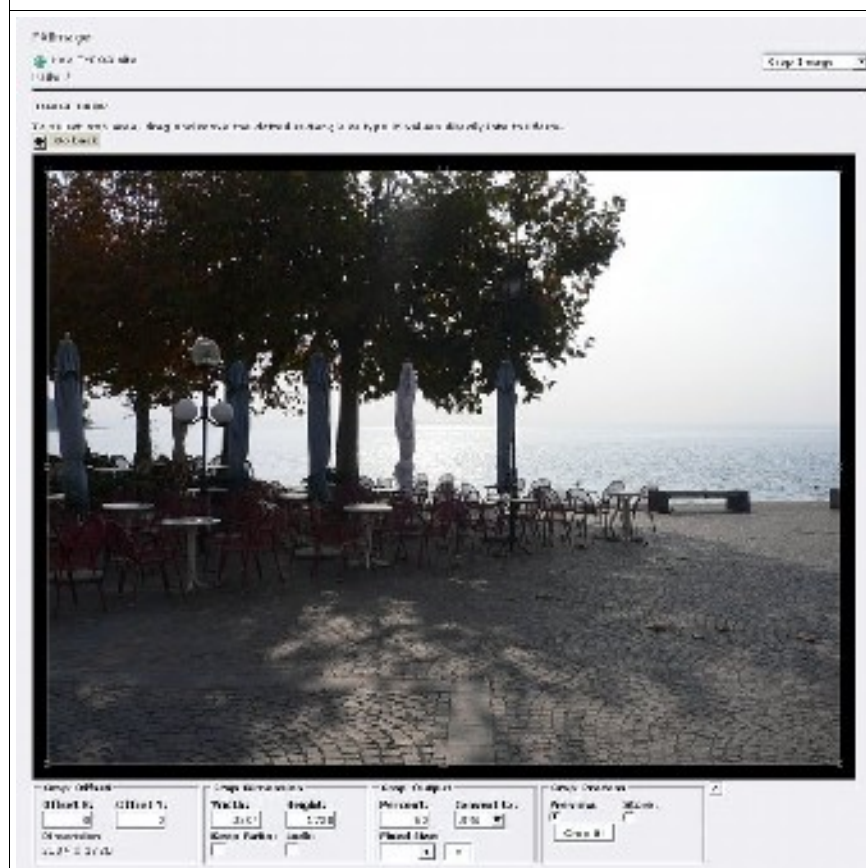
Fixed Size enables to use presets. If you click on + the preset will be transferred to the cropping area while Keep Ratio gets activated.

Presets for Fixed Size can be defined User/Group TSConfig (s. later)

Percent will be overridden by Fixed Size if selected.

The image should be resized to XGA, 1024x768.

To save the scaled image to the server activate **Store** and click **Crop It**.




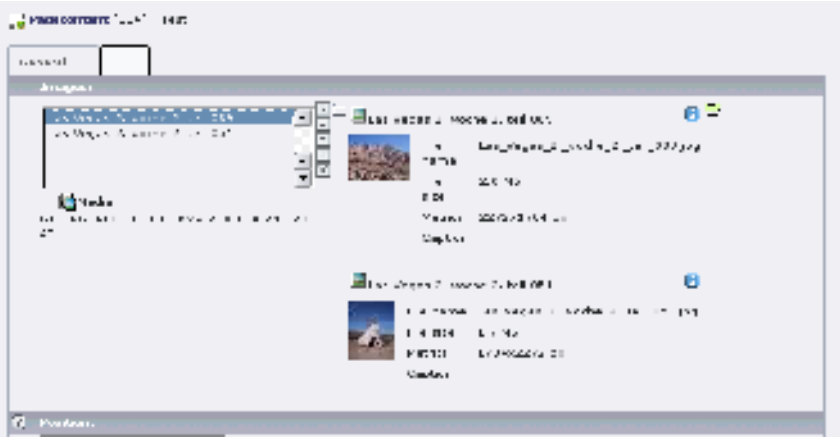

Here the final image should be resized to 50% of the original size.



Image scaled to VGA, 640x480

Image Wizard

The image wizard allows you to manipulate an image directly when selected in a content element. It requires that following extension are installed: dam, dam_ttcontent. Without this extension the option will not be available (as long as there is no FAL).

	<p>Before you can crop an image you have to select images and active the image you want to crop</p>
	<p>Click on the cropping icon.</p>
<p>a select area, drag and move the dotted rectangle to type in values directly in the form</p> 	<p>Select the size and area you want to crop, select store to finalize the cropping and click on store.</p>



Next time you activate the image again for cropping it will show you which part will be used.

Administration

Installation

Just download the extension using the extension manager. Starting with version 1.3.0 local installation is now supported.

Setup

During installation or at any time you click in the extension manager you can setup some general settings.

Variable	Definition	Type	Default	Comment
MAX_WIDTH	<p>Defines the image maximum width for the BE output. This will NOT have any influence on the final output. This is just used to scale larger images nicely on the display and speed up output.</p> <p>Added version 1.0.0: Optimized for a resolution of 1024x768 px Due to the floating CSS layout you should adjust this if you have higher screen resolutions available. Further you can configure that on BE-user based by Preset (s. Configuration)</p>	Integer	400px	<p>Can be overridden on a user based TSCONFIG: e.g. <pre>FDX_BE_IMAGE{ display.maxWidth=600 }</pre></p> <p>see Configuration</p>
MAX_HEIGHT	<p>Defines the image maximum height for the BE output. This will NOT have any influence on the final output. This is just used to scale larger images nicely on the display and speed up output.</p> <p>Added version 1.0.0: Optimized for a resolution of 1024x768 px Due to the floating CSS layout you should adjust this if you have higher screen resolutions available. Further you can configure that on BE-user based by Preset (s. Configuration)</p>	Integer	400px	<p>Can be overridden on a user based TSCONFIG: e.g. <pre>FDX_BE_IMAGE{ display.maxHeight=600 }</pre></p> <p>see Configuration</p>
SAME_PATH	If set, resulting image will be saved in the same path as the original.	Boolean	false	
IS_ABSOLUTE	If set, the provided path (see NEW_PATH) will be an absolute path on the server. If SAME_PATH is set (i.e. true) this will be with out any influence.	Boolean	false	

NEW_PATH	This will define the path where to store the manipulated image depending in the settings of SAME_PATH and IS_ABSOLUTE.	String	fdfx_image	
RESIZE_COMMAND		String	resize	Due to the fact that ImageMagick change the command from 'size' to 'resize' in the past, you can adjust that here if you experience problems
FIXED_SIZE	This will preset size for possible output	String	640x480 800x600 1024x768	comma separated list of pairs size=name, Can be overridden on a user based TSCONFIG: e.g. <pre>FDFX_BE_IMAGE{ display.fixedSize= 200x80=small Banner,480x120=Big Banner }</pre> see Configuration
FIXED_SIZE_DEFAULT	This will give you the crop frame directly when initializing crop and set it to the given fixed size	INT		e.g. if your fixedSize is defined like in the example above and value of 1 would directly display a crop frame with with 200x80px
CSS_FILE	Providing your own CSS File with path gives you the option either to style the layout of the extension or hide elements not important for our user	String		Can be set on user based TSCONFIG: eg: <pre>FDFX_BE_IMAGE{ display.cssFile=/filead min/css/style.css }</pre>
IMAGE_FORMAT	This gives you the option to define which format will be available for image conversion. Additionally default format will be set on first position	String	png,jpg,gif	Can be set on user based TSCONFIG: eg: <pre>FDFX_BE_IMAGE{ display.imageFormat=png }</pre>

Administrative Hint

When the wizard for images manipulation is available (i.e. dam and dam_ttcontent is installed) processed images will be store at the folder defined by SAME_PATH, IS_ABSOLUTE, NEW_PATH. The resulting path will be extended automatically with .../temp/.

If you want to exchange the source of an image and get the resulting image in the front-end rerendered you just have to deleted the images in the temporary folder. To make it easy for you it might be wise to use an absolute path sitting below typo3temp/.

Setup option only available in user/group TSCONFIG

This options are only available on user/group base i.e. can only be set using TSCONFIG.

Variable	Definition	Type	Default	Comment
disableRotation	Setting this will disable the rotation option i.e. user will not be able to rotate images	INT	0	To disable rotation add this to group TSCONFIG: <pre>FDfx_BE_IMAGE{ display.disableRotation =1 }</pre>

Configuration

Due to different requirements each BE-user or group can be configured individually. To do so add this to the user or group TSCONFIG:

```
FDFX_BE_IMAGE{
  display
  {
    maxWidth=600
    maxHeight=600
    fixedSize=200x80=small Banner,480x120=Big Banner
    fixedSizeDefault=1
    samePath=0
    isAbsolute=1
    newPath=/path/to/the/images/stored
    imageFormat=png
    cssFile=/fileadmin/css/style.css
  }
}
```

This will override the general settings made during setup of the extension on a user based and will make the best use of the individual hardware.

To-Do list

1. Rewrite to completely use jQuery or ExtJS
2. Add more Ajax functionality
3. In combination with DAM allow selection of the same image at the same content element for several times to enable cropping of different areas.

Known Problems

1. When you want to install DAM you should deinstall this extension first. After finalizing the DAM installation install it again. Otherwise you will get a bunch of errors.

Changelog

- 2.0.0 refactored classes
 added wizard support to manipulate images as part of a content element
 added new preset options
- 1.9.0 same as version 1.8.0 due to TER upload error
- 1.8.0 changes required for DAM 1.1.0
 some basic template support for TYPO3 v 4.2 & DAM
 minor bug fixes
 new icons thanks to richard.bausek@moccu.com
- 1.7.0 added feature to enable default for cropping
 SAME_PATH, NEW_PATH and IS_ABSOLUTE is now also configurable by
 UserTsconfig (both features requested by Stig Nørgaard Færch)
- 1.6.0 bugfix of changing crop dimensions on mouse move
 added new feature for cropping
 keep ratio and locking
 updates now fields automatically when moving
 added preset for output size
 added image rotation
 sponsored a back button
- 1.5.0 bug fix relies due to a bug that was caused by older versions of
 IM 4.2.3 as the command for resizing was changed from size to resize :-(
- 1.4.0 added support for DAM
- 1.3.0 support for local installation
 change to run also on local installation required move of
 class.fdfx_image.php to folder cm1
- 1.2.0 enabled non admin user to to access the module
- 1.1.0 bug fix: if user TSCONFIG was not set, no values were accepted
- 1.0.0 added translation capability
 changed CSS to float to improve usages of higher resolutions
 added configuration on user base
 manual error fixing
- 0.8.0 first public upload