EXT:fdfx_be_image

Extension Key: **fdfx_be_image**

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available from http://www.opencontent.org/opl.shtml

Version: 1.8.0

PDF-Version available at

http://www.4many.net/manual/fdfx_be_image/manual.pdf

The content of this document is related to TYPO3

- a GNU/GPL CMS/Framework available from www.typo3.com

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Introduction

What does it do?

Often articles are decorated with images uploaded to the server. This images are optimized to be displayed at a special position or just provide a general overview.
But what if an editor just need a special section for a teaser or a header image or some background for CSS?
Manipulate 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 and icon for image cropping will be added.

Sponsoring

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

Acknowledgment

This extension is based on developments provided by Alf Magne Kalleland at www.dhtmlgoodies.com .
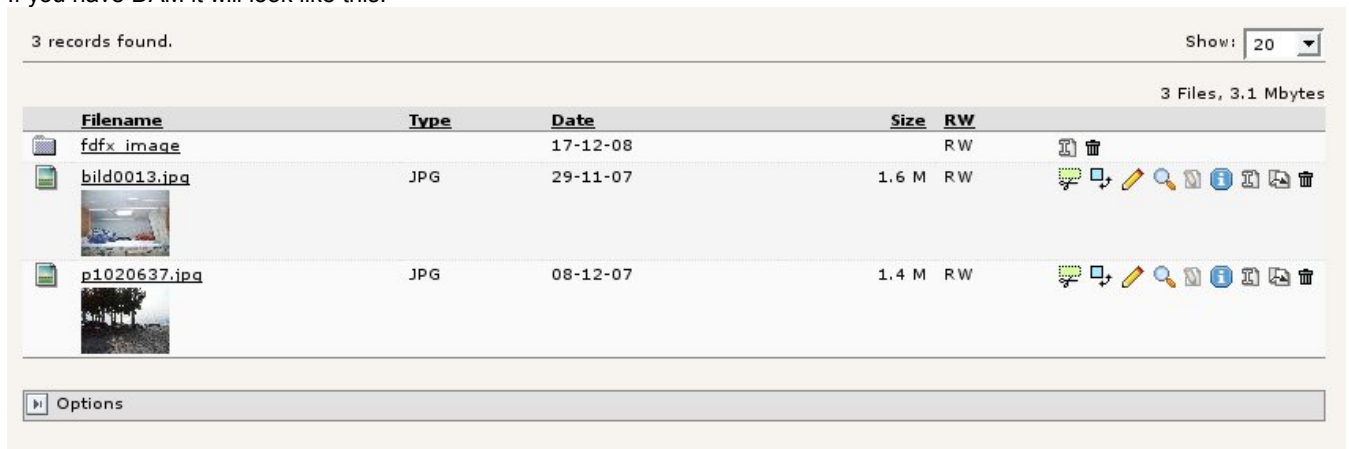The server based image cropping was totally rewritten to be compatible with the TPYO3-Framework and meet the security requirements. Additional changes on the original Javascript code for the AJAX communication was required.

Screenshots

Left clicking on a 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

ImageCropping

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 hight of the selection.

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

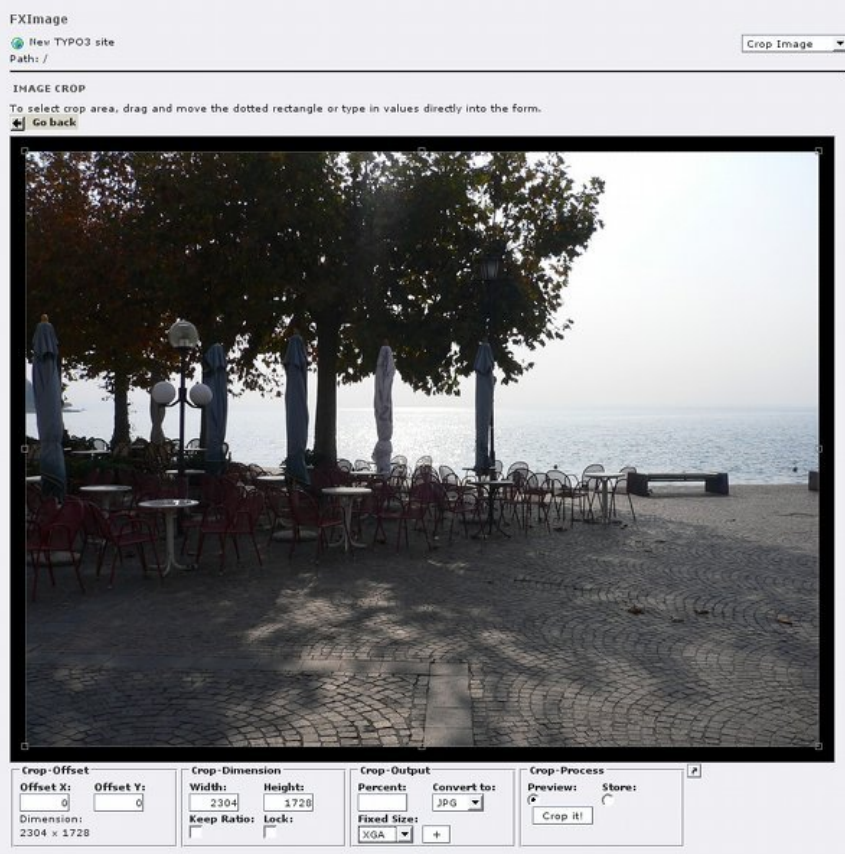Lock will disable changes of width and height by mouse.

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)

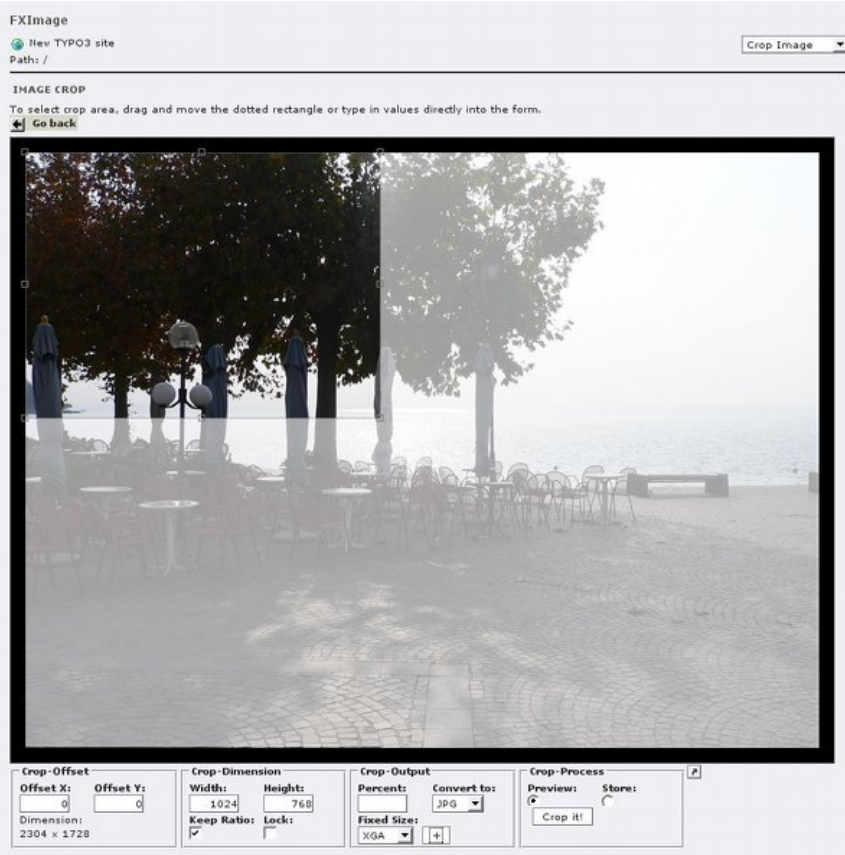Percent will be overridden by *Fixed Size* if selected.

Go back brings you back to the filelist.

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

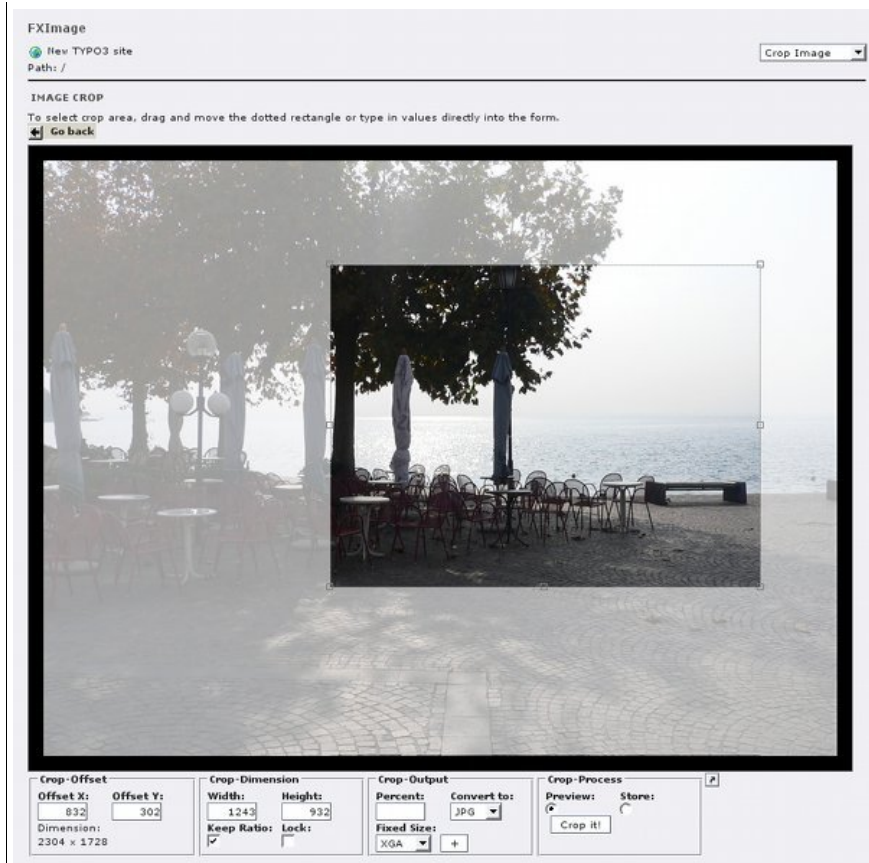To define that to your need s. Configuration.

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.
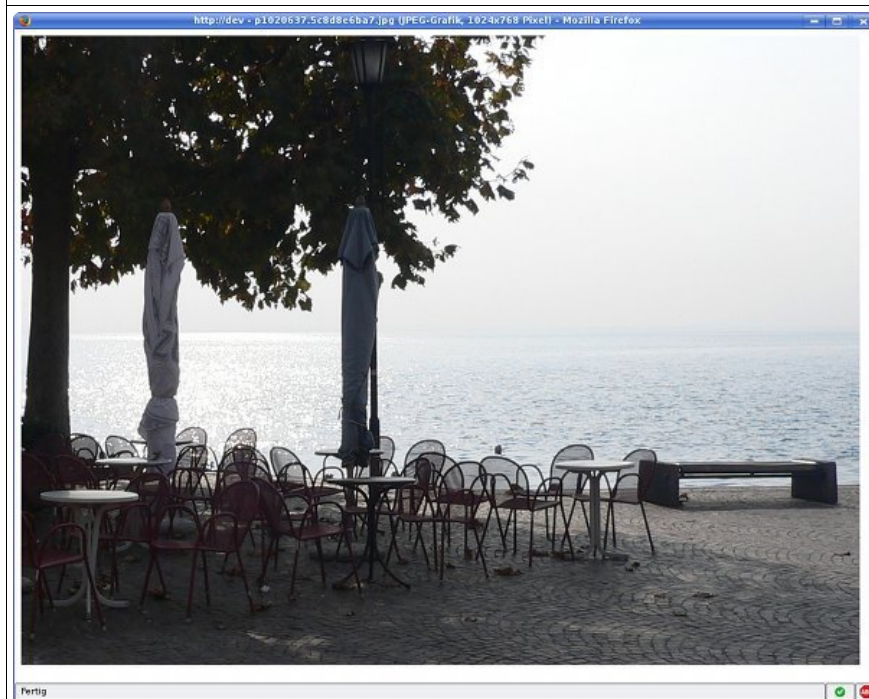
Result is shown on the next image.

We moved the selection and increased the width and height to get the items covered we want in the final image.
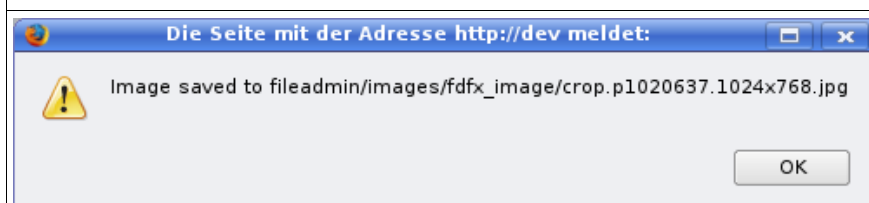
Now we click on *Crop It*.

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

The selection got scaled to the selected Fixed Size (here XGA: 1024x768).
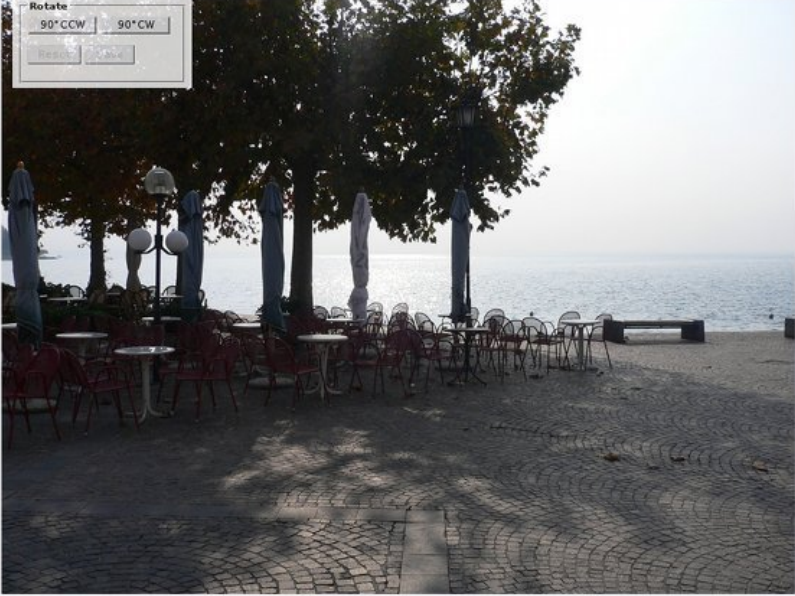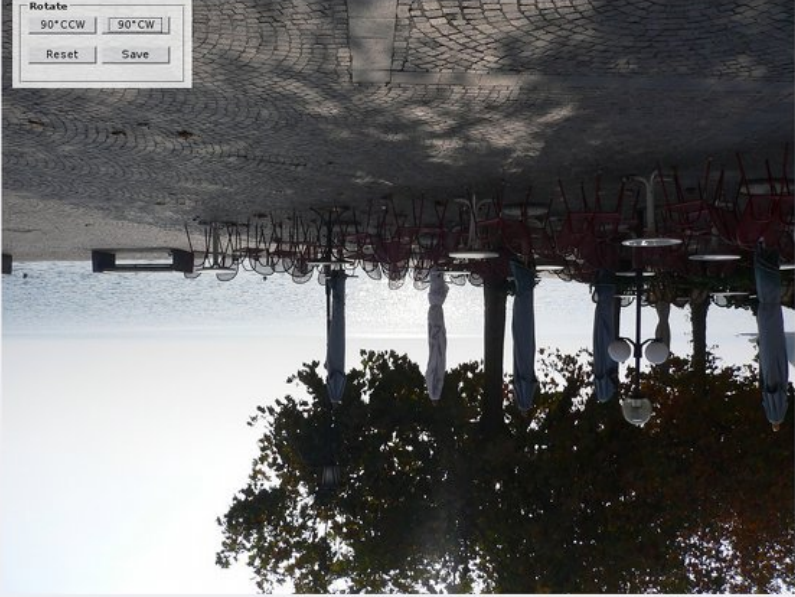
TIPP:
You can use this also to scale your images to the resolution you want without cropping. Just define presets for the required resolution (s. configuration)
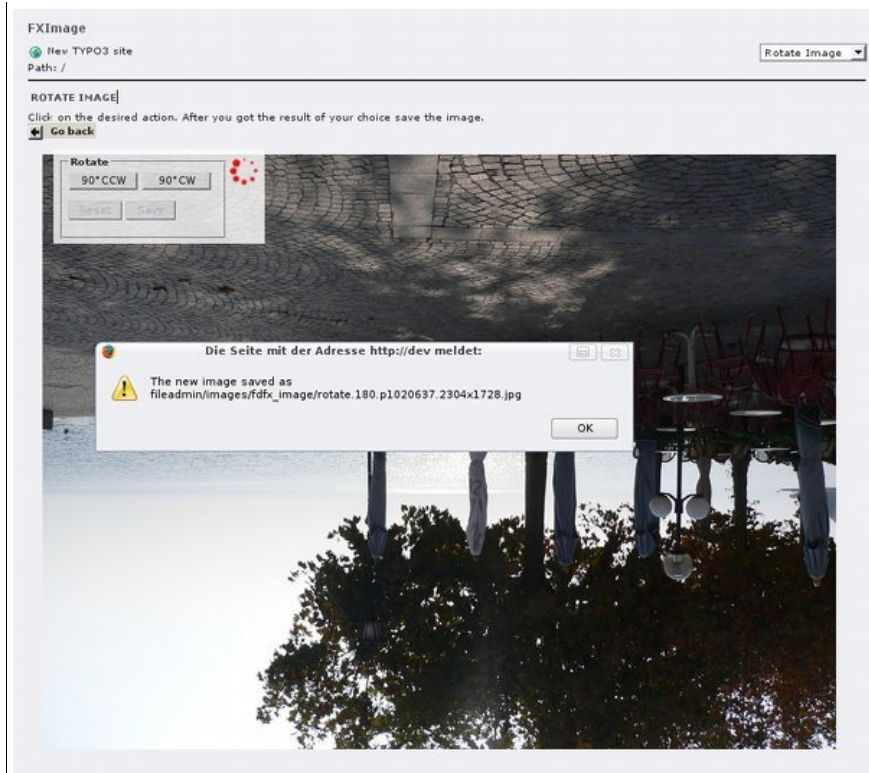

If you want to save the image finally select *Store* before clicking on *Crop It*.

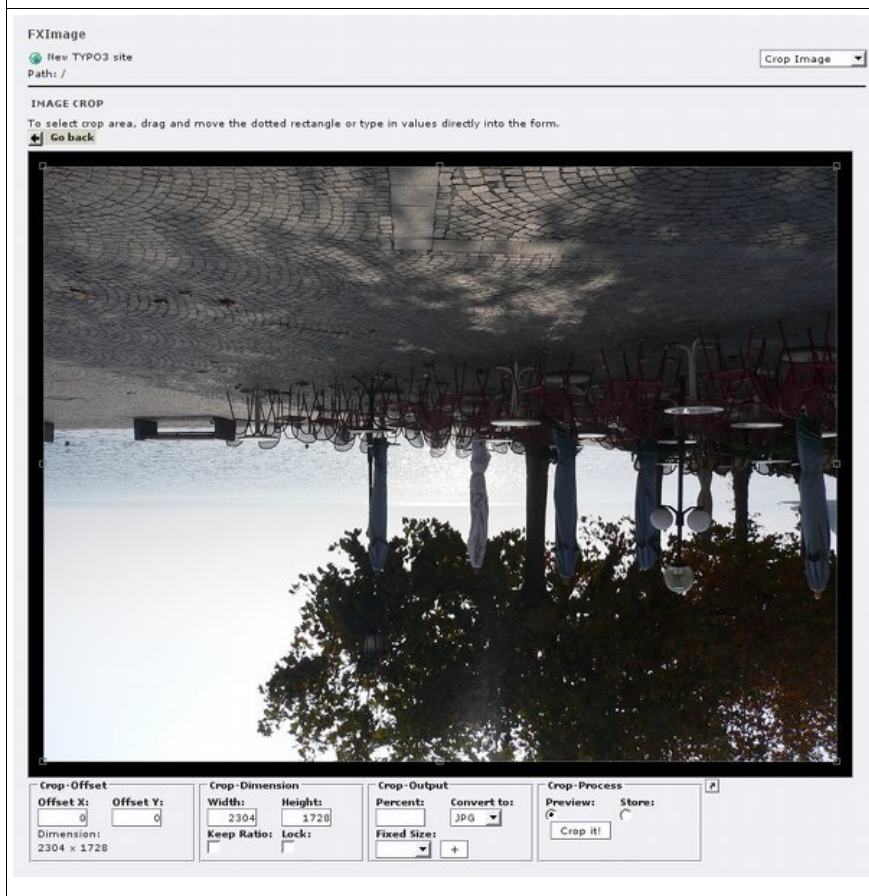As you see the new filename is calculated automatically.

Image Rotation

Activating **FXImage** and the menu item **Rotate Image** or clicking on the rotation icon (DAM) brings up the screen for rotating.

90° CCW
Rotates the image by 90° counter clockwise (left turn).

90° CW
Rotates the image by 90° clockwise (right turn)

Save
Saves the rotated image to the server.

Reset
Resets the local image to the last state before safe.

Save and reset will only be active if there is an action to perform.

Image rotated twice. The rotation will be performed directly in the browser. To save the rotated image to the server click **save**.

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

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

ImageScaling

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

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.

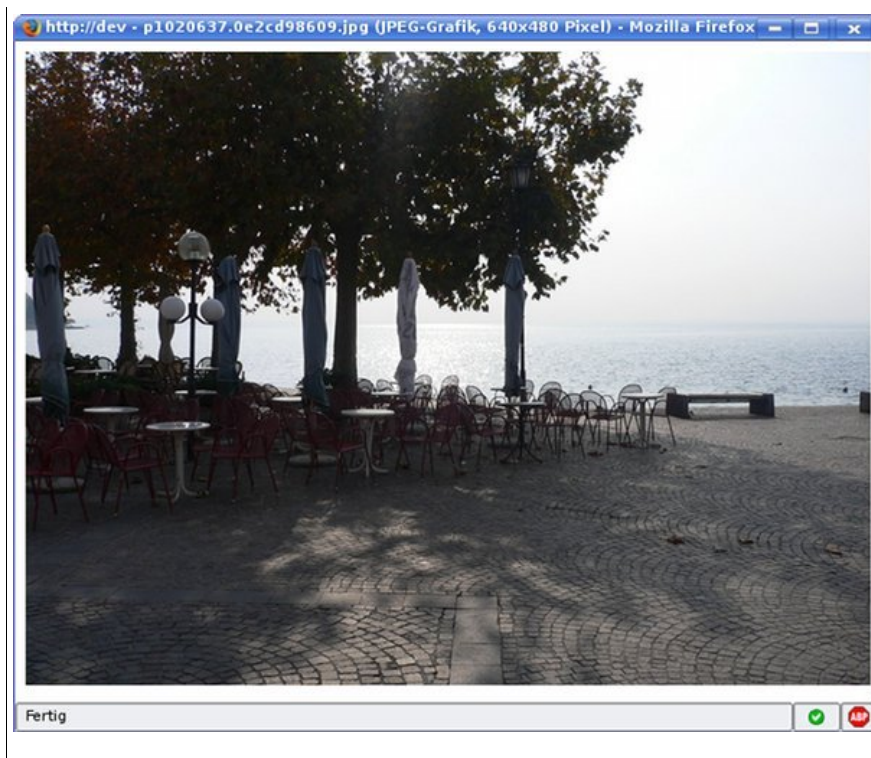| Variable	Definition	Type	Default	Comment
MAX_WIDTH	Defines the image maximum width for the BE output. This will NOT have any influence on the final output. This is just used to scale larger images nicely on the display and speed up output. **Added version 1.0.0:** Optimized for a resolution of 1024x768 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 base by Preset (s. Configuration)	Integer	400px	Can be overridden on a user base TSCONFIG: e.g. *FDFX_BE_IMAGE.display.maxWidth=600* see Configuration
MAX_HEIGHT	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. **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 base by Preset (s. Configuration)	Integer	400px	Can be overridden on a user base TSCONFIG: e.g. *FDFX_BE_IMAGE.display.maxHeight=600* see Configuration
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 base TSCONFIG: e.g. *FDFX_BE_IMAGE.display.fixedSize= 200x80=small Banner,480x120=Big Banner* 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

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
    }

}
```

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

To-Do list

1. Rewrite to complete use jQuery
2. Add more Ajax functionality

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

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 tor 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