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# ImagePlugin

Use this plugin to control the display and alignment of images using an easy syntax and support for server-side resizing and thumbnailing. There are a set of pre-defined layout formats for images as well as a free layout configurability.

Short example:

**You type:**

```
%IMAGE{"Sandbox/ImagePluginTest/Westminstpallace.jpg"  
  type="frame"  
  align="none"  
  caption="caption text"  
}%
```

**You get:**



**If installed:**

caption text

Images to be displayed can be located

- at the `topic` as specified,

- at the location specified in the IMAGEALBUM preference variable,
- at the current topic or
- at a remote URL.

If you specify a remote url using `http://...` the image is downloaded (using CPAN:LWP::Simple) into a local cache and then processed as usual. WARNING: please be aware of any copyrights of the images you mirror this way.

The `topic` and `IMAGEALBUM` parameters can be of the form `[<web>.<topic>]`. For example putting

```
* Set IMAGEALBUM = %SYSTEMWEB%.ImagePlugin
```

into the current topic will search all images at the given topic.

## Syntax

```
%IMAGE{"foo.gif" ...}%
```

There are four predefined format types (plain, simple, link, thumbnail, frame, float) that can be used by setting the `type` parameter (see below). In addition there is a free-form `format` parameter to specify any other possible html layout. The Wikipedia format is also supported. See [Wikipedia:Wikipedia:Extended\\_image\\_syntax](#).

`%IMAGE{"clear"}%` will create a proper clear for floats elements.

## Arguments

The image name is mandatory. Further arguments are optional.

Name	Values	Default
<code>class</code>	(see html specs)	imageFrame, imageFloat, ... depending on the type
<code>id</code>	(see html specs)	empty
<code>style</code>	(see html specs)	empty
<code>alt</code>	alt text	image filename
<code>caption</code>	caption text	empty
<code>desc</code>	description text	title text
<code>size</code>	geometry specification	image geometry
<code>tooltipheight</code>	height of tooltip image	300
<code>href</code>	hyperlink when clicking on the image	url of the source image
<code>format</code>	image layout format string	set by type argument
<code>height</code>	integer value	image width
<code>width</code>	integer value	image width
<code>mouseout</code>	javascript executed if moving the mouse off the image	empty
<code>mouseover</code>	javascript executed if moving the mouse over the image	empty
<code>align</code>	leftcenterrightnone	right
<code>tooltip</code>	on/off	off
<code>zoom</code>	on/off to scale images, if set to "on" scaling up images is allowed, otherwise it downscales only	off
<code>warn</code>	on/off, suppress error warnings	on
<code>refresh</code>	on/off/img to trigger recomputing images	off
<code>type</code>	simple, plain, link, thumb[nail], frame, float	plain

Name	Values	Default
footer	text to be appended to the html output	empty
header	text to be prepended to the html output	empty
title	title text	<b>alt</b> value
topic	valid topic name	topic part of IMGALBUM value or current topic
web	valid web name	web part of IMGALBUM value or current topic
tooltipwidth	width of tooltip image	300

## Tooltip preview

The `tooltip` argument allows rendering image previews in a tooltip. This option only has effect if Foswiki:Extensions.JQueryPlugin is installed that comes with the `jquery.tooltip` plugin used to render the image tooltip here.

## Image geometry

The image geometry in the `size` parameter can be specified in a format `<width>[px] [x<height>[px]]`, that is width and height can be given as integers with an optional `px`, where the height is optional, separated with a 'x' in between. Note, that the given width and height values are the *maximum width* and *maximum height* that the image will have keeping its aspect ratio. If you want to deform it to an exact measure use the `width` and `height` arguments.

Note, that you must set `zoom="on"` to scale images up. Otherwise images smaller than the given geometry will stay as they are. For instance, when generating thumbnails it is preferable to keep small icons as they are instead of bloating them up to a standard thumbnail size.

## Format specification

Format strings given in `header`, `footer` and `format` may contain the following pseudo variables:

Name	Value
<code>\$align</code>	value of <code>align</code> argumet
<code>\$alt</code>	value of <code>alt</code> argumet
<code>\$caption</code>	caption text
<code>\$class</code>	value of <code>class</code> argumet
<code>\$desc</code>	value of <code>desc</code> argument
<code>\$dollar</code>	replaced with dollar sign (\$)
<code>\$height</code>	image height
<code>\$href</code>	hyperlink url when clicking on an image
<code>\$id</code>	value of <code>id</code> argumet
<code>\$magnifyIcon</code>	enlarge-icon
<code>\$mousein</code>	value of <code>mousein</code> argument
<code>\$mouseout</code>	value of <code>mouseout</code> argument
<code>\$n</code>	replaced with a linefeed (\n)
<code>\$nop</code>	replaced with empty string
<code>\$origheight</code>	image height of the original image
<code>\$origsrc</code>	url of the original image (not the resized one)
<code>\$origwidth</code>	image width of the original image
<code>\$percnt</code>	replaced with percent sign (%)

Name	Value
\$src	image source url
\$style	value of <code>style</code> argumet
\$text	link text to be displayed in the "link" layout type
\$title	value of <code>title</code> argument
\$width	image width

After the layout has been formatted any further TopicMarkup that might be contained is expanded afterwards. Note, that using `$percent` and `$dollar` evaluation order of TopicMarkup can be changed so that arguments are expanded *after* the IMAGE tag has been computed, whereas the default evaluation order is left-to-right-inside-out.

## REST image service

The ImagePlugin implements a REST handler `resize` to generate thumbnails for image attachments on the fly. This handler is then called in an `img` tag like this:

```
<img src='%PUBURLPATH%/rest/ImagePlugin/resize?
  topic=web.topic;
  file=attachment;
  width=300;
  height=300'
...
/>
```

Arguments to the `resize` handlers are:

Name	Values	Default
<code>topic</code>	specifies the topic where the image is attached	<code>BASEWEB.BASETOPIC</code>
<code>file</code>	specifies the image filename	
<code>width</code>	width of thumbnail	
<code>height</code>	height of thumbnail	
<code>size</code>	geometry of thumbnail	
<code>zoom</code>	switch on/off upscaling	
<code>refresh</code>	on/off/img to trigger recomputing images	off

## Examples

- See also `Sandbox.ImagePluginTest` for an exhaustive sample and test page
- Resize to 100 pixels, text flows right, with caption

```
%IMAGE{"Westminstpalace.jpg" size="100" align="left" caption="This is my caption"}%
```

- Resize to `%THUMBNAIL_SIZE%` size, and center image

```
%IMAGE{"Westminstpalace.jpg" type="thumb" align="center"}%
```

## Configuration

### Links to external images

You can turn on downloading and mirroring of images that link to external sites, Example:



```
$Foswiki::cfg{ImagePlugin}{RenderExternalImageLinks} = 1;
```

This will download the image and mirror it on the local site. Use the `refresh url` parameter to check if the external images has updated.

If you also turn on attaching a mirrored image to the current topic, an additional attachment-record is generated for the downloaded external image. Attachments will be marked as hidden. Note, that any auto-attached image will update the topic and with it its timestamp.

```
$Foswiki::cfg{ImagePlugin}{AutoAttachExternalImages} = 1;
```

## Attaching auto-generated thumbnails

Automatically generated thumbnails are attached to the current topic when you switch on

```
$Foswiki::cfg{ImagePlugin}{AutoAttachThumbnails} = 1;
```

This might be of interest when you'd like to access these thumbnails using other plugins.

## Image processing backend

The plugin makes use of either `CPAN::Image::Magick` or `Graphics::Magick`, a fork of the former. Both are compatible as far as they are used here. `Graphics::Magick` does seem to perform faster than `Image::Magick`; some `Image::Magick` might be broken on your server distribution. By default `Image::Magick` is used as it is the more common extension for perlbased image processing.

```
$Foswiki::cfg{ImagePlugin}{Mode} = 'Image::Magick';
```

## Plugin Installation Instructions

You do not need to install anything in the browser to use this extension. The following instructions are for the administrator who installs the extension on the server.

Open configure, and open the "Extensions" section. Use "Find More Extensions" to get a list of available extensions. Select "Install".


If you have any problems, or if the extension isn't available in `configure`, then you can still install manually from the command-line. See <http://foswiki.org/Support/ManuallyInstallingExtensions> for more help.








## Plugin Info

Plugin Author:	Craig Meyer, Foswiki:Main.MichaelDaum
Copyright:	© 2006, Craig Meyer, © 2006-2010 Michael Daum <a href="http://michaeldaumconsulting.com">http://michaeldaumconsulting.com</a>
License:	GPL (GNU General Public License)
Release:	2.31
Version:	6307 (2010-02-12)

Change History:			
12 Feb 2010:	made imagetooltip a proper jQuery plugin; using Foswiki:Extensions/ZonePlugin for faster page loads		
17 Nov 2009:	added <code>zoom</code> parameter; fixed manual refresh via url params		
24 Sep 2009:	updated <code>imageplugin.template</code> to help XHTML validation (stop rendering empty id attribute)		
14 Sep 2009:	using Foswiki's proxy settings instead of ENV; disabled tooltip previews for Internet Explorers		
18 Aug 2009:	removed bonus % in template (Foswiki:Main.AndreLichtsteiner, Foswiki:Main.WillNorris)		
24 Apr 2009:	converted to foswiki plugin; added thumbnail REST handler; added tooltip preview using jquery; added mirroring of external images; moved image type definitions into a template		
11 Feb 2009:	updated documentation examples (Foswiki:Main.WillNorris)		
07 Jan 2009:	certified for foswiki/compat		
03 Jul 2008:	fixed parsing the type parameter; fixing docu about the default THUMBNAIL_SIZE; added new default format <code>plain</code> ; plainify text to be used in a html attribute position, e.g. titles; default to no img alignment; refresh images on a <code>?refresh=on</code> url param; using <code>LWP::UserAgent</code> instead of <code>LWP::Simple</code> to mirror images; using <code>Resize</code> instead of <code>Scale</code> for higher quality thumbnails; don't encrypt the href param		
03 Mar 2008:	make implementation of image mage configurable, defaulting to <code>Graphics::Magick</code> as <code>Image::Magick</code> has got issues using perl accellerators like <code>mod_perl</code> , <code>speedy-cgi</code>		
03 Jan 2008:	added processing of remote images		
18 Dec 2006:	fixed image lookup order; fixed html formats; added I18N workaround		
18 Aug 2006:	fixed html errors; removed references to <code>ImgPlugin</code> thus not showing the magnify-clip; some html and css fixes to resemble closer to the MediaWiki examples		
17 Aug 2006:	width and height arguments had no effect; floating images not clearing properly on IE		
16 June 2006:	released into the public		
10 May 2006:	Initial version by forking <code>ImgPlugin</code>		
Dependency:	\$Foswiki::Plugins::VERSION 1.1		
CPAN Dependencies:	<b>Name</b>	<b>Version</b>	<b>Description</b>
	<code>Image::Magick</code>	<code>&gt;=6.2.4.5</code>	Required.
	<code>LWP::UserAgent</code>	<code>&gt;=0</code>	Required.
	<code>Graphics::Magick</code>	<code>&gt;=1.1.11</code>	Optional.
	<code>Foswiki::Plugins::JQueryPlugin</code>	<code>&gt;=3740</code>	Optional.
	<code>Foswiki::Plugins::ZonePlugin</code>	<code>&gt;=1.0</code>	Required.
Other Dependencies:			
Perl Version:	5.8		
Home:	Foswiki:Extensions/ImagePlugin		
Support:	Foswiki:Support/ImagePlugin		

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Topic revision: r2 - 12 Feb 2010 - 23:14:26 - ProjectContributor

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