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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                              | alt 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 style argumet                              |
| \$text  | link text to be displayed in the "link" layout type |
| \$title | value of title 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           |
|---------|---|-------------------|
| topic   | specifies the topic where the image is attached | BASEWEB.BASETOPIC |
| file    | specifies the image filename                    |                   |
| width   | width of thumbnail                              |                   |
| height  | height of thumbnail                             |                   |
| size    | geometry of thumbnail                           |                   |
| zoom    | switch on/off upscaling                         |                   |
| refresh | 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,<br>© 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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