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# ImageGalleryPlugin

Show image gallery with auto-generated thumbnails from attachments

## Description

This plugin helps you in viewing pictures that are attached to a topic in a nice thumbnail gallery. Clicking on a thumbnail zooms the image. You might navigate within your images using a navigation toolbar to visit the next, previous, first or last image in your gallery. Images and thumbnails are resized according to the given settings and are cached thereafter. The order of images can be customized by putting a sequence number into the attachment comment. An image attachment can be managed by clicking on the red dot in its title. The plugin will generate the document relations "parent", "first", "last", "next", "previous" for each image to improve navigation (only a few browsers support this, e.g. mozilla). The image gallery is highly customizable using cascading stylesheets and html formats (see below).

## Example

		
addon	air	airplane
		
application	as	attachfile
		
award	barcode	bat
		
bed	bitly	blank-bg

There are 336 images at TWikiDocGraphics.

## Syntax

### Arguments

This plugin introduces two TWiki variables:

- `%IMAGEGALLERY{...}%`: render an image gallery
- `%NRIMAGES%`: returns the number of images attached to a (list of) topics

Both variables handle the following arguments:

Argument	Description
topic	comma separated list of topics whose attachments should be displayed (default: the current topic)
limit	maximum number of images to display (default: 0, meaning no limit).
include	regular expression an image must match to be part of the gallery
exclude	regular expression an image must <i>not</i> match to be part of the gallery
field	specify which property of the image has to match using <code>include</code> or <code>exclude</code> ; possible values: <code>name</code> , <code>comment</code> (default: <code>name</code> )
size	the thumbnail size, the actual geometries of a size can be configured below; possible values: <code>tiny</code> , <code>small</code> , <code>medium</code> , <code>large</code> , <code>huge</code> (default: <code>medium</code> )
columns	number of thumbnails to be displayed in one row of the gallery

Argument	Description
	(default: 4)
dorels	flag to disable/enable document relations between images; possible values are on, off, 0, 1 (default: on)
maxwidth	maximal display width of an image; images are scaled not to exceed this limit while preserving aspect ratio (default: 640)
maxheight	maximal display height of an image (default: 480)
minwidth	minimal display width of an image; images are scaled not to fall below this limit while preserving aspect ratio (default: 0)
minheight	minimal display height of an image (default: 0)
format	html format of an image (default: <a href="\$origurl"></a>)
titles	toggles image and thumbnail titles on and off (default: on)
title	html format of an image title; "off" will hide the image's title (default: \$comment (\$imgnr/\$nrimgs) \$reddot)
thumbrate	html format of a thumbnail title; "off" will hide the thumbnail's title (default: \$comment \$reddot)
sort	set the initial order of the images, can be name, date, size or comment (default:date)
reverse	invert the initial order of the images, can be on or off (default:off)

Note, that only `topic` is meaningful to `%NRIMAGES%`.

## Variables

The parameters "format", "title" and "thumbrate" can use the following variables to refer to image properties:

Variable	Description
\$web	the web the image is located
\$topic	the topic the image is located
\$nrimages	the total number of images in the gallery
\$n	a linefeed
\$reddot	render a red-dot anchor to access the attachment
\$width	the display width of the image
\$height	the display height of the image
\$thumbwidth	the thumbnail width of the image
\$thumbheight	the thumbnail height of the image
\$origwidth	the original width of the image
\$origheight	the original height of the image
\$size	the size of the image
\$sizeK	the size of the image in kilobytes
\$comment	the comment of the image (with its sequence number stripped off)
\$imgnr	the sequence number of the image
\$date	the date when the image has been uploaded
\$version	the version of the image attachment
\$name	the filename of the image
\$wikiusername	the wikiusername who uploaded the image

Variable	Description
\$username	the username who uploaded the image
\$imageurl	the url path of the display image
\$thumburl	the url path of the thumbnail image
\$origurl	the url path pointing to the original image attachment

## Query Parameters

The IGP will check for certain query parameters in the url. These are:

- id=<n>: distinguish multiple IMAGEGALLERYs in the same topic
- filename=<name>: display the given file of the image set
- refresh=on: recompute all images and thumbnails in the IGP cache

Each IMAGEGALLERY has an anchor, namely a `<a name="igp<n>" />`, that is used to scroll the display appropriately.

## Customization

First of all this plugin should come with reasonable default values, so that you will get a nice image gallery (with regards to my taste) right on. There are several things that are customizable:

- customize a gallery using a compination of the arguments described above
- add custom cascading styles in a topic to format the gallery
- alter the default cascading styles in the style.css file attached to this topic
- customize the plugin settings below

## Cascading Stylesheets

The plugin emits the following css classes (see the comments in the style.css file):

Class	Description
igp	division for the complete output of the image gallery
igpThumbNails	division of all thumbnails
igpThumbNailsTable	table of thumbnail images
igpThumbNail	table cell of one thumbnail image
igpThumbNailTitle	table cell of the thumbnail title
igpPictureTable	table of the display image and the navigation bar
igpPicture	table cell of the display image
igpPictureTitle	division of the title of the display image
igpNavigation	table cell of the navigation bar
igpRedDot	span surrounding the red dot
igpAlert	span surrounding error messages

## Adjusting the image sequence

By default the image gallery will display images in the order that they where uploaded. This determines their *natural* order. When you want to change this order you can prefix the comment of the attachment with a sequence number. For example: given a picture whose comment is "My old bike" that should be put at position 12 in your image gallery then change the comment to "12 - My old bike". This will put the image at the desired position. Sequence numbers don't necessarily need to be unique, that is if there's another picture with a comment like "12 - My new bike" then the natural order of the both is relevant. In general, a picture

will be put at position `<nr>` if its attachment comment has the format

```
<nr><space>--<space><comment>
```

Note, that the `$comment` variable will only display `<comment>`, that is with `<nr><space>--<space>` stripped off.

## Plugin Installation Instructions

**Note:** You do not need to install anything on the browser to use this plugin. The following instructions are for the administrator who installs the plugin on the TWiki server.

- Download the ZIP file
- Unzip it in your twiki installation directory. Content:

File:	Description:
<code>data/TWiki/ImageGalleryPlugin.txt</code>	
<code>lib/TWiki/Plugins/ImageGalleryPlugin/Core.pm</code>	
<code>lib/TWiki/Plugins/ImageGalleryPlugin.pm</code>	
<code>pub/TWiki/ImageGalleryPlugin/style.css</code>	

- Visit `configure` in your TWiki installation, and enable the plugin in the {Plugins} section.

## Plugin Info

Plugin Author:	TWiki:Main.MichaelDaum <a href="#">↗</a> , TWiki:Main.WillNorris <a href="#">↗</a>
Copyright:	© 2002-2003, Will Norris; © 2005-2008, Michael Daum <a href="http://michaeldaumconsulting.com">http://michaeldaumconsulting.com</a> <a href="#">↗</a> ; © 2008-2011 TWiki:TWiki.TWikiContributor <a href="#">↗</a>
License:	GPL (GNU General Public License <a href="#">↗</a> )
Plugin Version:	2011-07-21 - v3.74
Change History:	
2011-07-21	TWikibug:Item6772 <a href="#">↗</a> : No images found error if image name has dots in name -- TWiki:Main.JoshuaTharp <a href="#">↗</a> ; change global package variables from "use vars" to "our" -- TWiki:Main.PeterThoeny <a href="#">↗</a>
2010-04-26	TWikibug:Item6433 <a href="#">↗</a> : Doc improvements -- TWiki:Main.PeterThoeny <a href="#">↗</a>
16 Jul 2008	don't crash on images that start with a digits pattern
07 Jul 2008	fixing use of string as hash
03 Jul 2008	applying patch by Aurélio A. Heckert (see Bugs:Item5753); using <code>Resize</code> instead of <code>Scale</code> for higher quality thumbnails; hiding <code>reddot</code> when the user has no edit access to the target topic
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>
17 Jan 2008	default to sorting by name instead of by date
13 Nov 2007	replaced plugin topic settings with <code>configure</code> settings
19 Sep 2007	store auto-computed images in an images subdir of its own
19 Feb 2007	make proper use TWiki-4 API; don't use inline css, put them into the html header instead
24 Jul 2006	working around <code>Image::Magick</code> crashes reading svg image files
20 Mar 2006	added <code>sort</code> and <code>reverse</code> arguments; fixed updating thumbnails when a new image version is created
20 Feb 2006	added <code>include</code> , <code>exclude</code> and <code>field</code> arguments
16 Feb 2006	renamed thumbnail so that it does not interfere with auto-attachment

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14 Sep 2005	don't strictly depend on normalizeFilename()
15 June 2005	new release
10 May 2005	fixed igp id clash error found by TWiki:Main/MartinCleaver; capture ImageMagick error messages; don't trust attachment info - check for attachment existence as well; added refresh query parameter to recompute images
09 May 2005	fixed errors reported by TWiki:Main/MarcelTrap; added support for multiple topics (proposed by TWiki:Main/MartinCleaver; added %NRIMAGES% tag
	fix error when called from within rename view
03 May 2005	fixed thumbnail resizing; reintroduced <code>titles</code> parameter; support for multiple galleries per topic
27 Apr 2005	complete rewrite
01 Aug 2003	Updates from feedback from a Windows installation
25 Jul 2003	Initial version posted to TWiki.org
15 Mar 2002	Initial (internal) version
CPAN Dependencies:	CPAN:Image::Magick or CPAN:Graphics::Magick
Other Dependencies:	none
Perl Version:	5.8
Plugin Home:	TWiki:Plugins/ImageGalleryPlugin
Feedback:	TWiki:Plugins/ImageGalleryPluginDev
Appraisal:	TWiki:Plugins/ImageGalleryPluginAppraisal

**Related topics:** TWikiPlugins, DeveloperDocumentationCategory, AdminDocumentationCategory

This topic: TWiki > ImageGalleryPlugin

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or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback

**Note:** Please contribute updates to this topic on TWiki.org at TWiki:TWiki.ImageGalleryPlugin