Manual of Style: Prepare and Edit Images

To insert a new image into a Zendiwiki page, three steps are required:

1. Pre-edit the image file with graphics software if necessary.
2. Upload the image file to Zendiwiki.
3. Embed the image in the DokuWiki text of the page.

For Zendiwiki it is strongly recommended to use **only four image sizes: Width 360, 540, 720 or 1080 pixels**. (The size of an image is usually described by its width. A change in width means a proportional change in height.) To ensure optimal functionality, only image files that are already in these formats should be uploaded to the wiki. The recommended format for image files is PNG.

The use of fixed widths for images in pixels is controversial. See the argumentation on https://en.wikipedia.org/wiki/Wikipedia:Manual_of_Style/Images#Size. In addition, this creates a dependency on the current technical status quo of screen resolutions.

You can resize images with your favourite image editor software, such as GIMP[FOSS]. Instructions for this are available, for example, at https://www.gimp.org/tutorials/GIMP_Quickies/#changing-the-size-dimensions-of-an-image-scale.

Image resizing with ImageMagick

As an alternative, the ImageMagick software package [FOSS] for image processing contains the command line tool convert. With it it is possible to convert various properties of image files efficiently and accurately, even in one pass. Examples for Linux shell commands:

Example 1:

```
convert -resize 540\> waterfall-original-big.jpg waterfall-540.png
```

This command does the following:

- Create a new image file `waterfall-540.png` in the current directory.
- Convert the file from the `.jpg` image format to the `.png` format.
- Shrink the image to the width of 540 pixels. \> means: do not enlarge a smaller image. (With enlarging, the image quality tends to deteriorate.)
- Preserve the aspect ratio. ImageMagick by default keeps the with-to-height proportion of an image.

Example 2:

```
mkdir images-360; convert "*.jpg[360x>]" -set filename:base "%[basename]"
"images-360/%[filename:base]_w360p.png"
```

Does the following:

- `*.jpg`: Convert all image files in the current directory, ending with `.jpg`.

- `[360x>]`: Shrink the images to 360 pixels width. Do not enlarge smaller images (achieved by the >).
- Convert the image format to `png`.
- Keep the filenames (`%[basename]`), each extended by the string `_w360p`.
- Store all converted files in the sub directory `images-360/` (must exist).

Further image editing with ImageMagick

Sometimes Images have to be rotated beforehand:

```
convert -rotate 90 source-image-file.jpg target-image-file-rotated.jpg
```

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