GrayNess

This Package provides the following basic image editing functions:

- blur_image()
- convert_image()
- crop_image()
- flip_image_horizontal()
- flip_image_vertical()
- grayscale()
- transparent_image()

blur_image

performs a Gaussian blur on the imagedata.

Warning: This operation is **SLOW**

Parameters

```
blur_image(
  imagebytes: bytes,
  sigma: int str,
    ..args: any
) -> content
```

```
imagebytes bytes
```

Raw imagedata provided by the read function

Example:

```
#let data = read("file.webp", encoding:none)
#blur_image(data)
```

```
sigma int or str
a measure of how much to blur by (standard deviation)

Example:
#let data = read("file.webp", encoding:none)
#blur_image(data, 5)

Default: 5
```

```
..args any
Arguments to pass to typst image function i.e. width, height, alt and fit
Example:

#let data = read("file.webp", encoding:none)
#blur_image(data, 7, width: 50%, height: 80%)
```

convert_image

Displays an image from bytes in formats not natively supported by typst

Supported formats are:

- Bmp
- Dds
- Farbfeld
- Gif
- Hdr
- Ico
- Jpeg
- OpenExr
- Png
- Pnm
- Qoi
- Tga
- Tiff
- WebP

Parameters

```
convert_image(
  imagebytes: bytes,
    ..args: any
) -> content
```

```
imagebytes bytes
Raw imagedata provided by the read function

Example:
#let data = read("file.webp", encoding:none)
#convert_image(data)
```

```
..args any
Arguments to pass to typst image function i.e. width, height, alt and fit
Example:
#let data = read("file.webp", encoding:none)
#convert_image(data, width: 50%, height: 80%)
```

crop_image

Crop the given imagedata to the specified width and height

```
Parameters
```

```
crop_image(
  imagebytes: bytes,
  startx: int str,
  starty: int str,
  width: int str,
  height: int str,
  ..args: any
) -> content
imagebytes
               bytes
Raw imagedata provided by the read function
Example:
#let data = read("file.webp", encoding:none)
#crop(data, 0, 0, 150, 200)
startx
         int or str
left starting coordinate (in pixels) of the crop window
Default: 0
         int or str
starty
top starting coordinate (in pixels) of the crop window
Default: 0
width
         int or str
horizontal size (in pixels) of the crop window
height
          int or str
vertical size (in pixels) of the crop window
..args
Arguments to pass to typst image function i.e. width, height, alt and fit
Example:
 #let data = read("file.webp", encoding:none)
```

flip_image_horizontal

Flip the provided imagedata horizontally

#crop_image(data, 0, 70, 120, 250, width: 50%, height: 80%)

```
Parameters
```

```
flip_image_horizontal(
  imagebytes: bytes,
    ..args: any
) -> content

imagebytes bytes

Raw imagedata provided by the read function

Example:
#let data = read("file.webp", encoding:none)
#flip_image_horizontal(data)
..args any
```

```
..args any
Arguments to pass to typst image function i.e. width, height, alt and fit
Example:
#let data = read("file.webp", encoding:none)
#flip_image_horizontal(data, width: 50%, height: 80%)
```

flip_image_vertical

Flip the provided imagedata vertically

Parameters

```
flip_image_vertical(
  imagebytes: bytes,
    ..args: any
) -> content
```

```
imagebytes bytes

Raw imagedata provided by the read function

Example:
#let data = read("file.webp", encoding:none)
#flip_image_vertical(data)
```

```
..args any
Arguments to pass to typst image function i.e. width, height, alt and fit
Example:
#let data = read("file.webp", encoding:none)
#flip_image_vertical(data, width: 50%, height: 80%)
```

grayscale

Create a grayscale represenation of the provided imagedata

Parameters

```
grayscale(
  imagebytes: bytes,
    ..args: any
) -> content
```

```
imagebytes bytes

Raw imagedata provided by the read function

Example:

#let data = read("file.webp", encoding:none)
#grayscale(data)
```

```
..args any
Arguments to pass to typst image function i.e. width, height, alt and fit
Example:
#let data = read("file.webp", encoding:none)
#grayscale(data, width: 50%, height: 80%)
```

transparent_image

Adds transparency to the provided image data

Parameters

```
transparent_image(
  imagebytes: bytes,
  alpha: ratio,
    ..args: any
) -> content
```

```
imagebytes bytes
```

Raw imagedata provided by the read function

Example:

```
#let data = read("file.webp", encoding:none)
#transparent image(data)
```

```
..args any
Arguments to pass to typst image function i.e. width, height, alt and fit
Example:
#let data = read("file.webp", encoding:none)
#transparent_image(data, width: 50%, height: 80%)
```