ImageChops

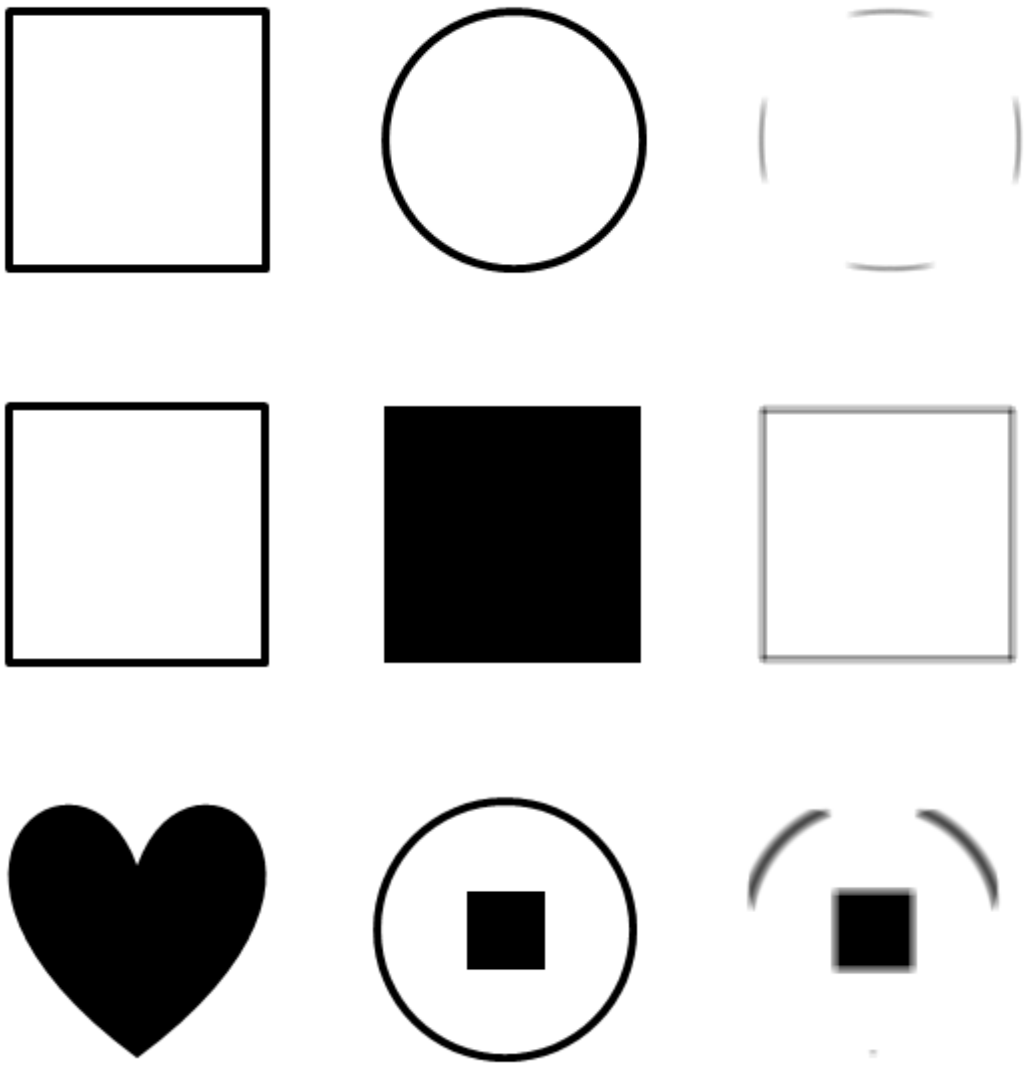
Nagaraj. Kulkarni

nkulkarni64@gatech.edu

PIL.ImageChops.add(*image1*, *image2*, *scale=1.0*, *offset=0*)

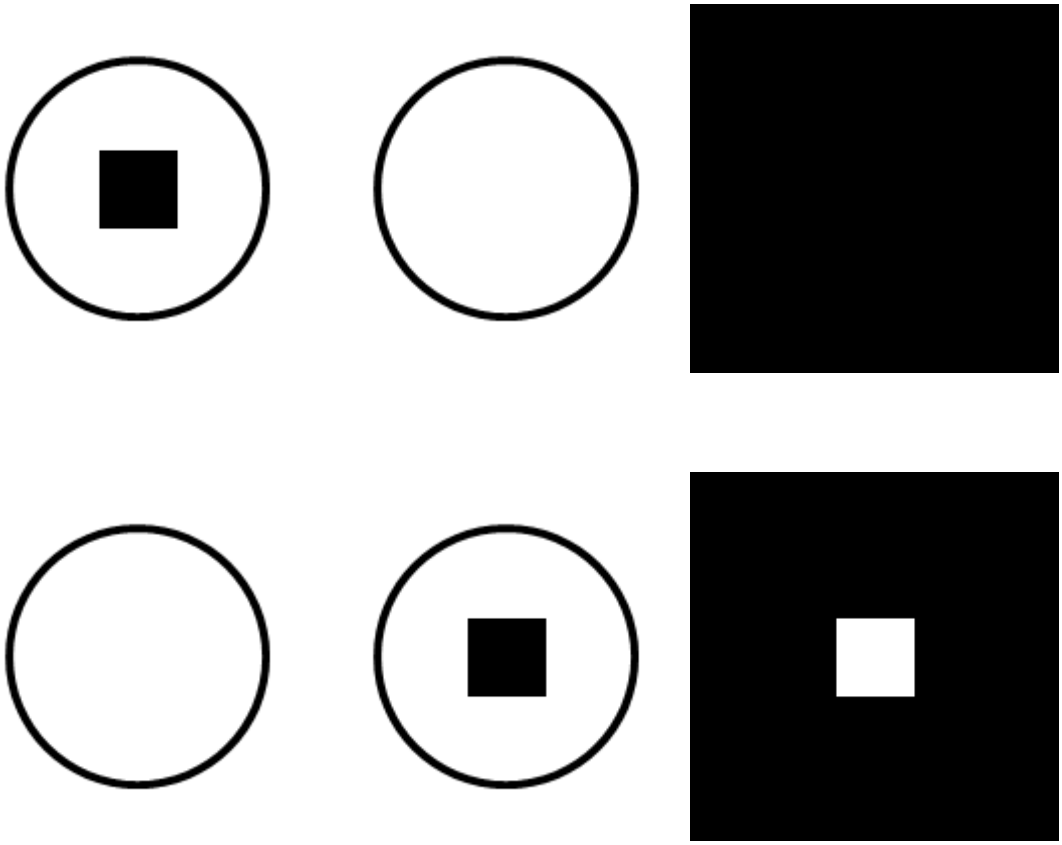
Adds two images, dividing the result by scale and adding the offset. If omitted, scale defaults to 1.0, and offset to 0.0.

```
out = ((image1 + image2) / scale + offset)
```



PIL.ImageChops.subtract(*image1*, *image2*, *scale=1.0*, *offset=0*)

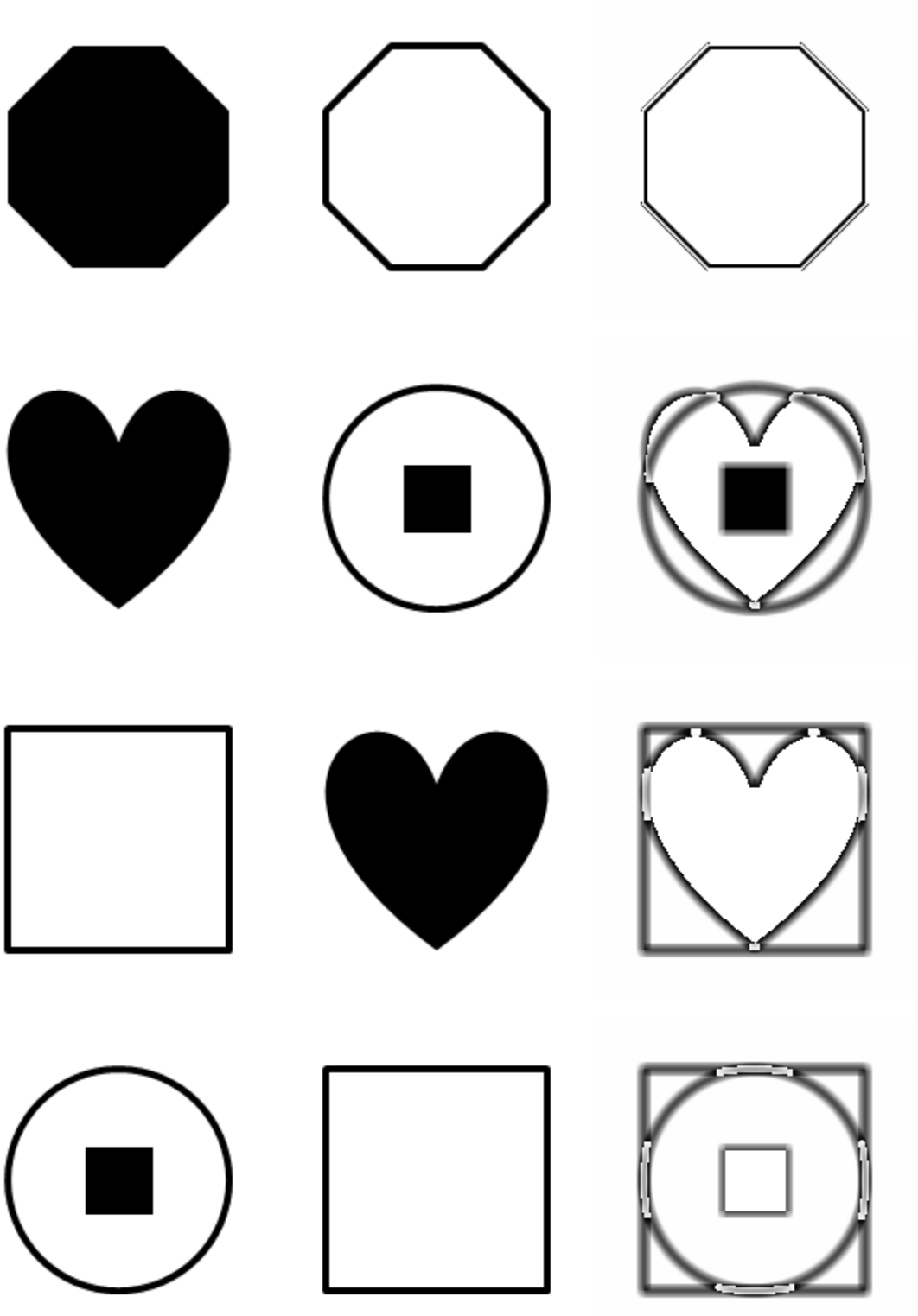
Subtracts two images, dividing the result by scale and adding the offset. If omitted, scale defaults to 1.0, and offset to 0.0.



PIL.ImageChops.add_modulo(*image1*, *image2*)

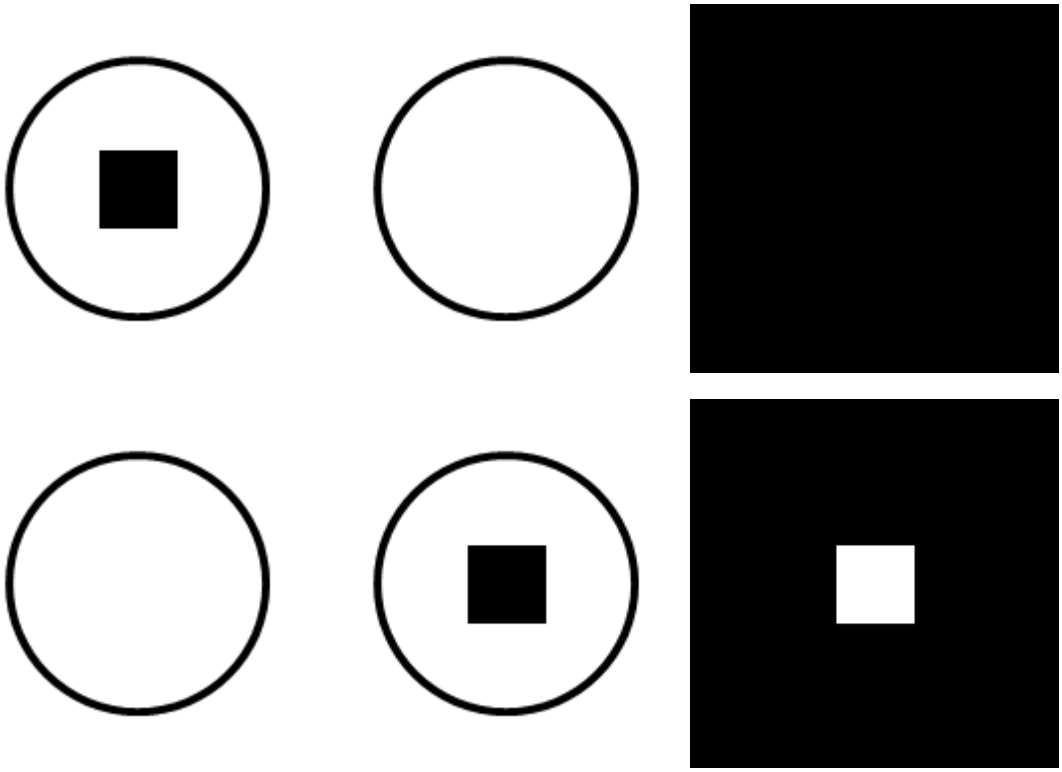
Add two images, without clipping the result.

```
out = ((image1 + image2) % MAX)
```



PIL.ImageChops.subtract_modulo(*image1*, *image2*)

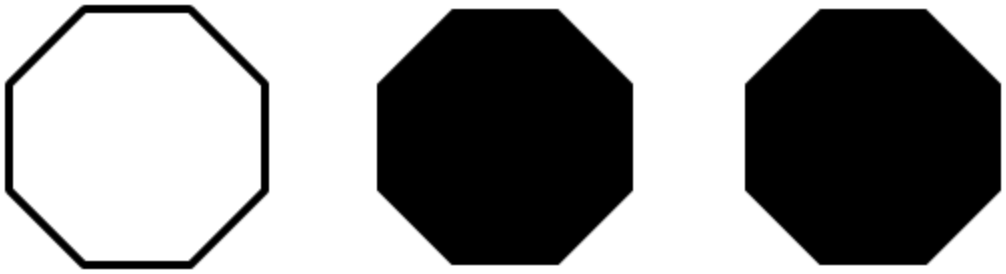
Subtract two images, without clipping the result.



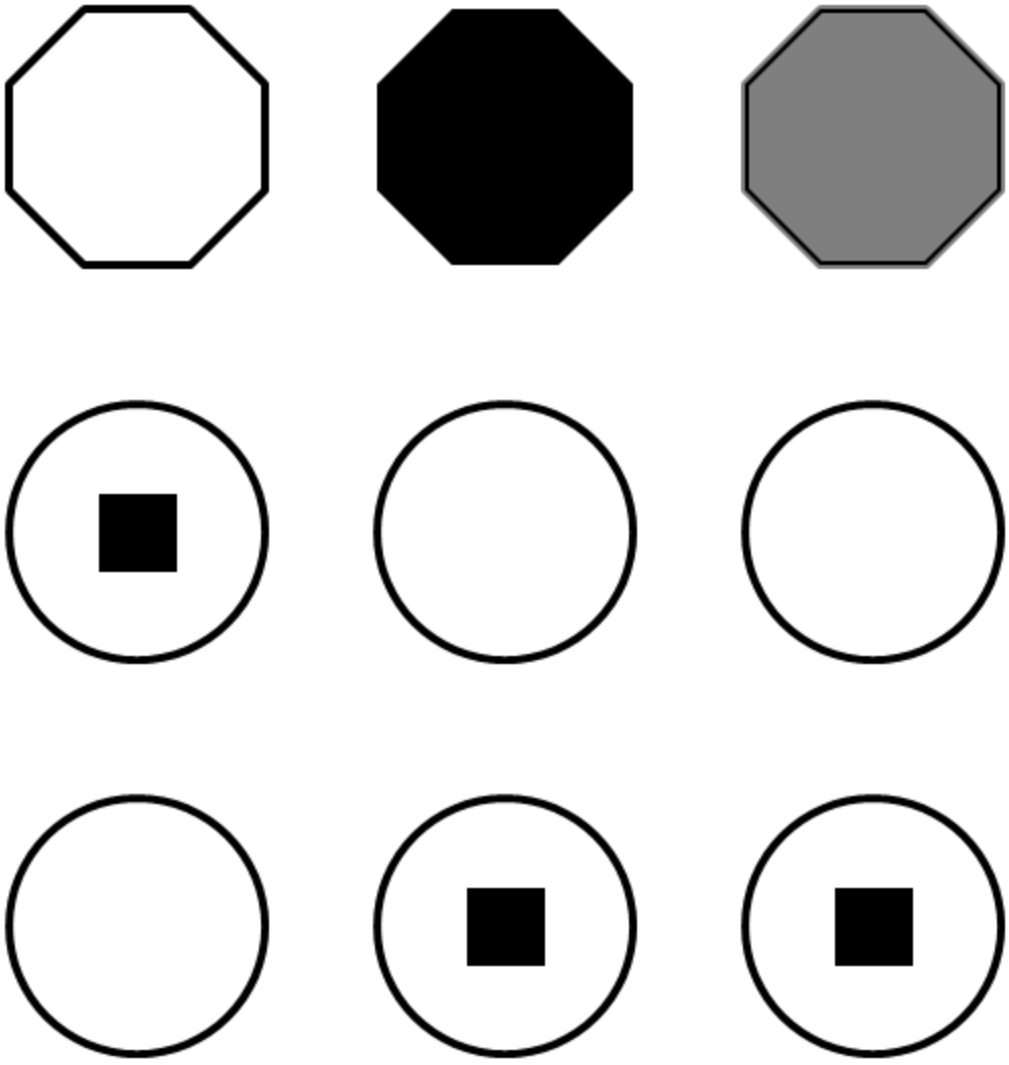
PIL.ImageChops.blend(*image1*, *image2*, *alpha*)

Blend images using constant transparency weight. Alias for `PIL.Image.Image.blend()`.

Alpha=1 = weight given to the second figure

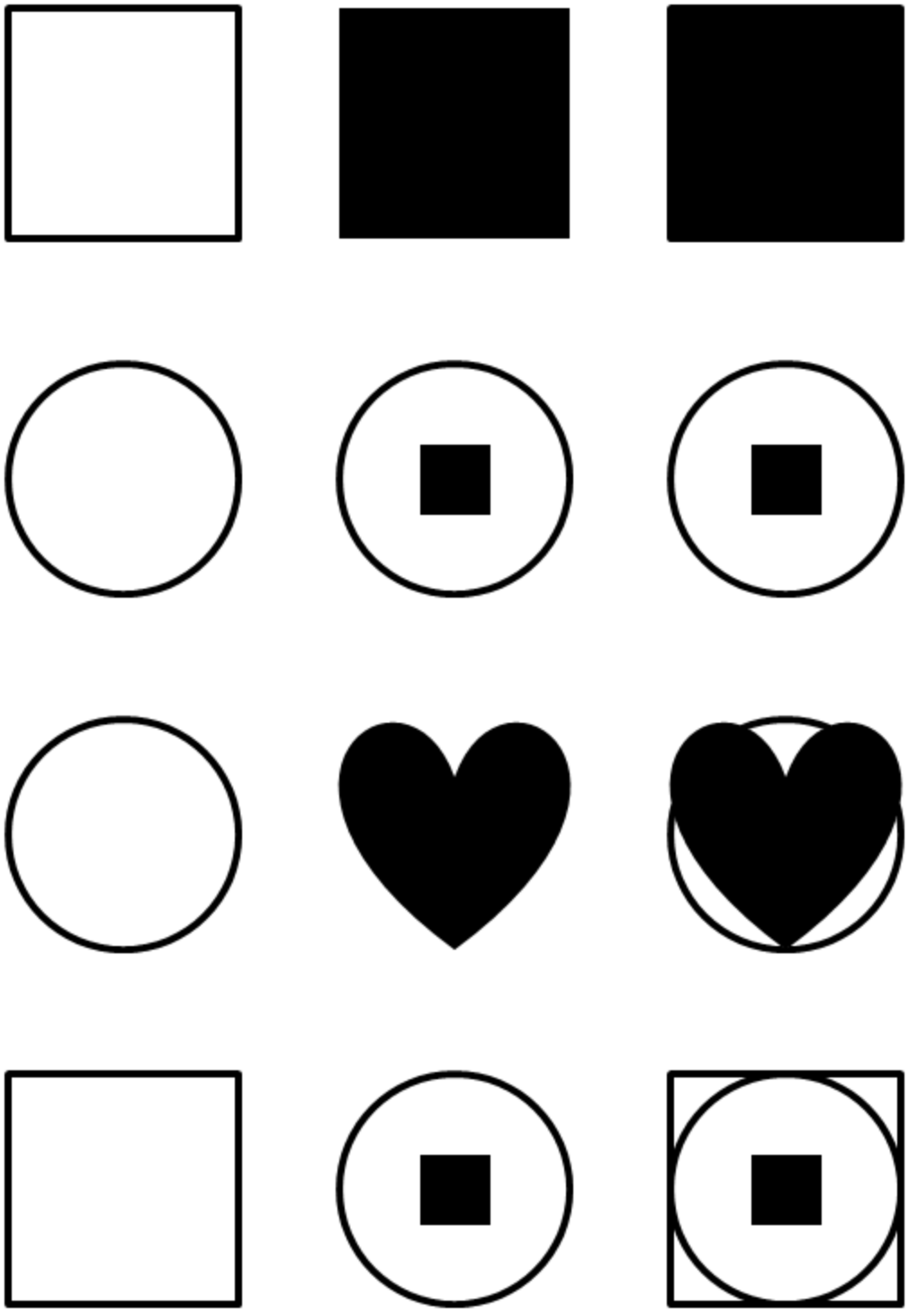


Alpha=0.5



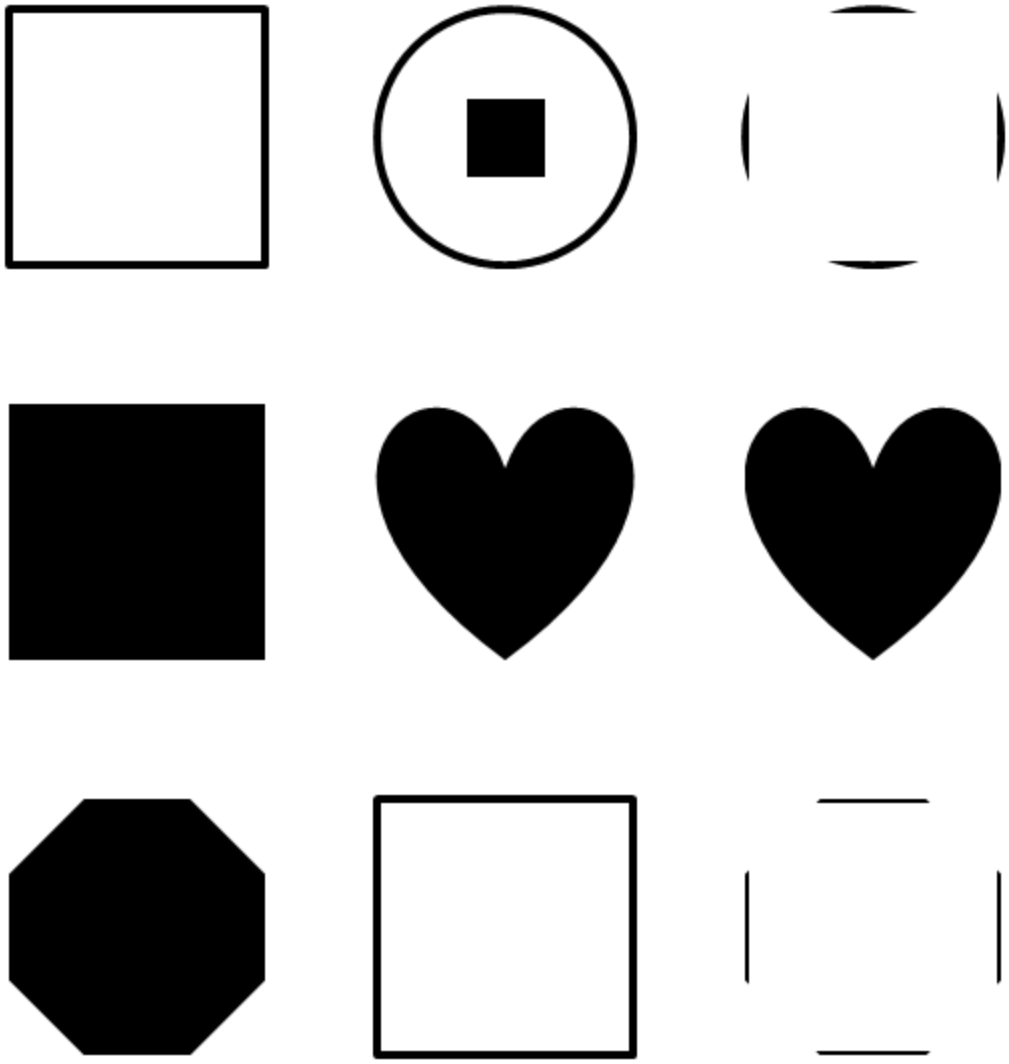
PIL.ImageChops.darker(*image1*, *image2*)

Compares the two images, pixel by pixel, and returns a new image containing the darker values.



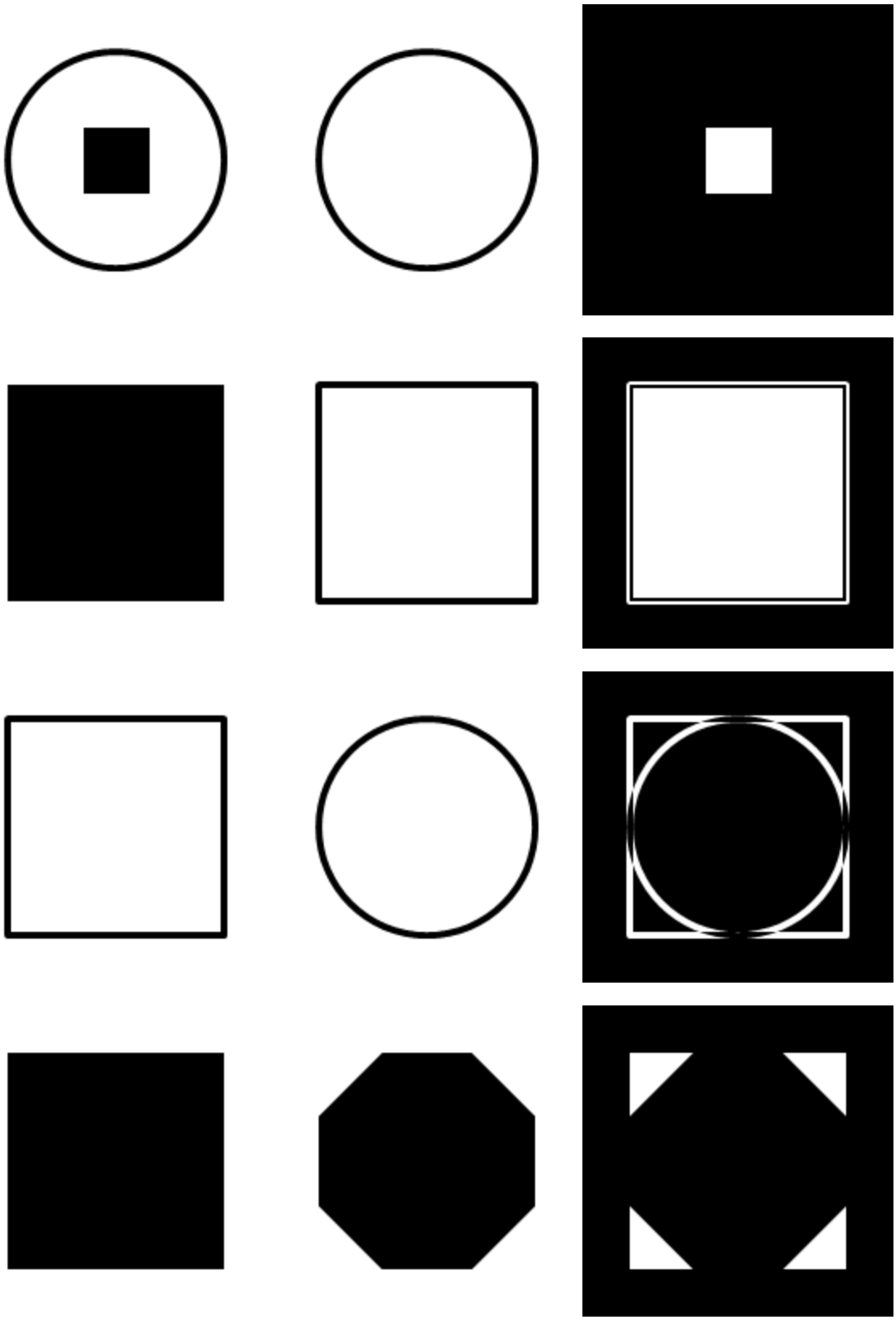
PIL.ImageChops.lighter(*image1*, *image2*)

Compares the two images, pixel by pixel, and returns a new image containing the lighter values.



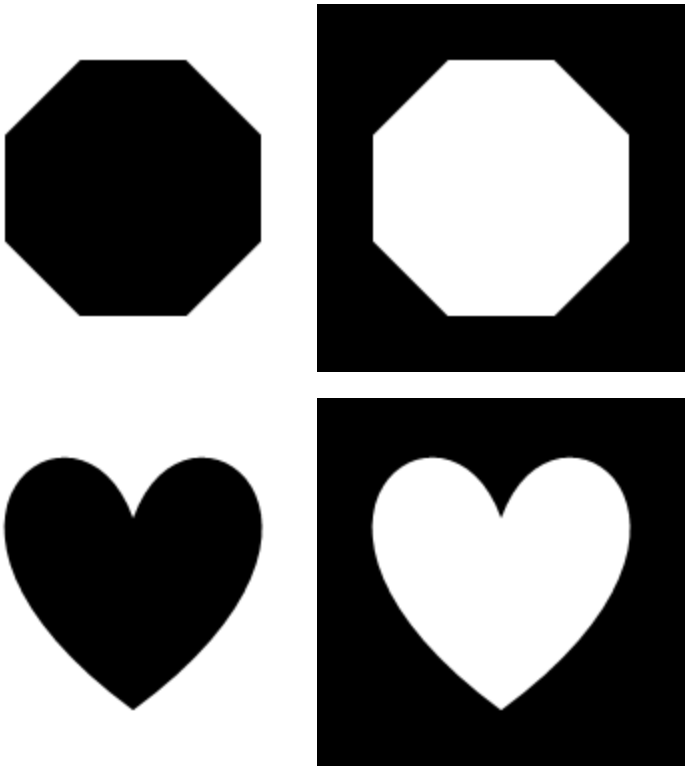
PIL.ImageChops.difference(*image1*, *image2*)

Returns the absolute value of the pixel-by-pixel difference between the two images.



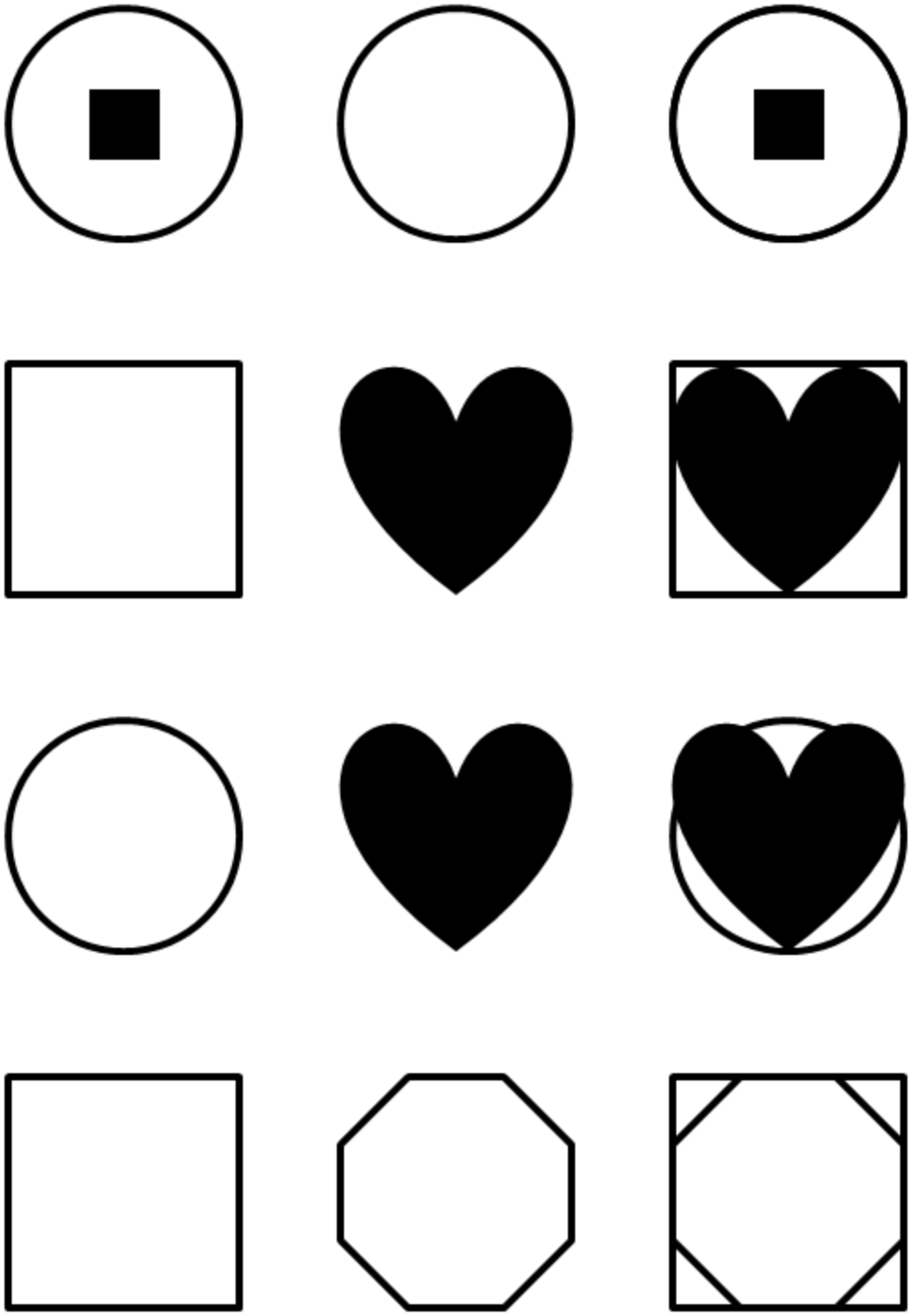
PIL.ImageChops.invert(*image*)

Invert an image (channel).



PIL.ImageChops.multiply(*image1*, *image2*)

Superimposes two images on top of each other. If you multiply an image with a solid black image, the result is black. If you multiply with a solid white image, the image is unaffected.



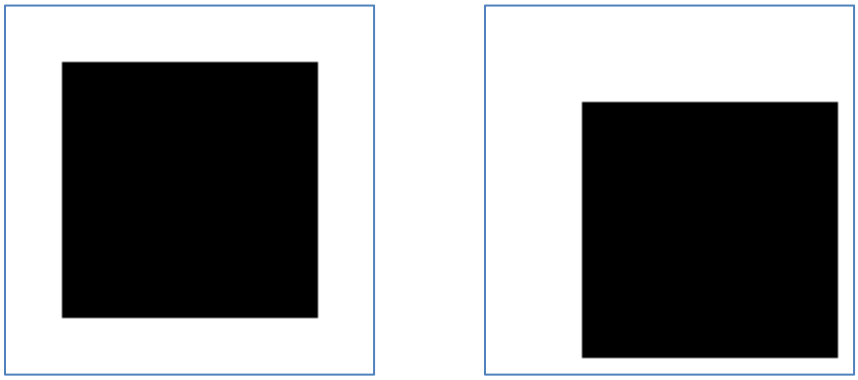
PIL.ImageChops.offset(*image*, *xoffset*, *yoffset=None*)

Returns a copy of the image where data has been offset by the given distances. Data wraps around the edges. If **yoffset** is omitted, it is assumed to be equal to **xoffset**.

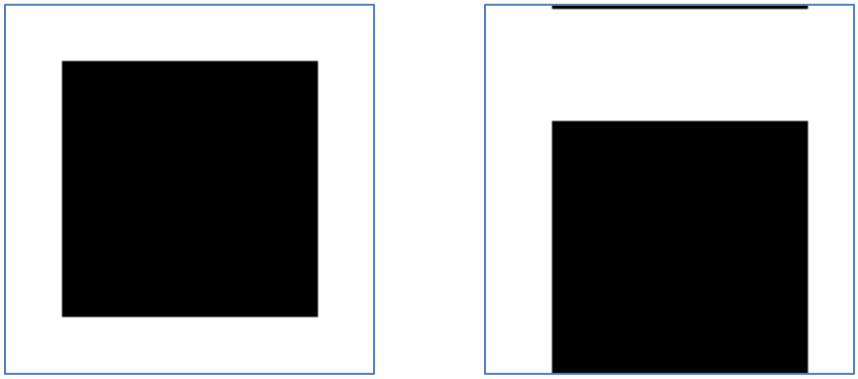
Parameters:

- **xoffset** – The horizontal distance.
- **yoffset** – The vertical distance. If omitted, both distances are set to the same value.

```
out=ImageChops.offset(image1, xoffset=20, yoffset=None)
```



```
out=ImageChops.offset(image1, xoffset=5, yoffset=30)
```



PIL.ImageChops.screen(*image1*, *image2*)

Superimposes two inverted images on top of each other.

```
out = MAX - ((MAX - image1) * (MAX - image2) / MAX)
```