

```
from PIL import Image
filename = "/Users/viswaksenajayam/Downloads/semester/5thSem/signal&image processing/buildings.jpg"
with Image.open(filename) as img:
    img.load()
type(img)
isinstance(img, Image.Image)
```

True

```
# img.show()
img
```



```
img.format
```

'JPEG'

```
img.size
```

(1920, 1273)

```
img.resize((400,400))
```



```
img.mode
```

```
'RGB'
```

```
img.filter(ImageFilter.BLUR)
```



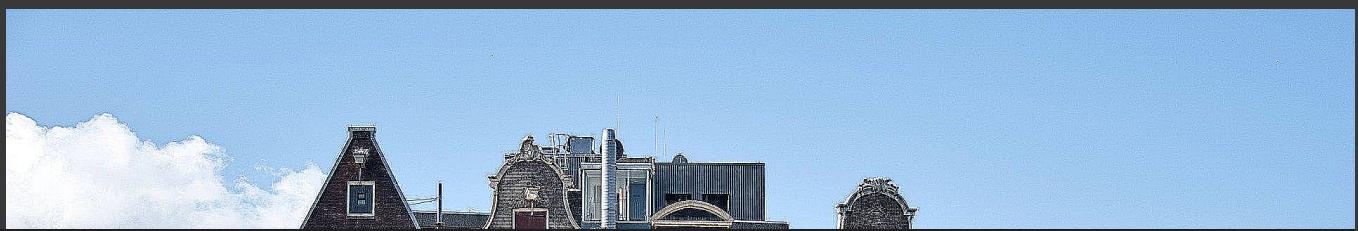
```
img.filter(ImageFilter.CONTOUR)
```



```
img.filter(ImageFilter.DETAIL)
```



```
img.filter(ImageFilter.EDGE_ENHANCE)
```



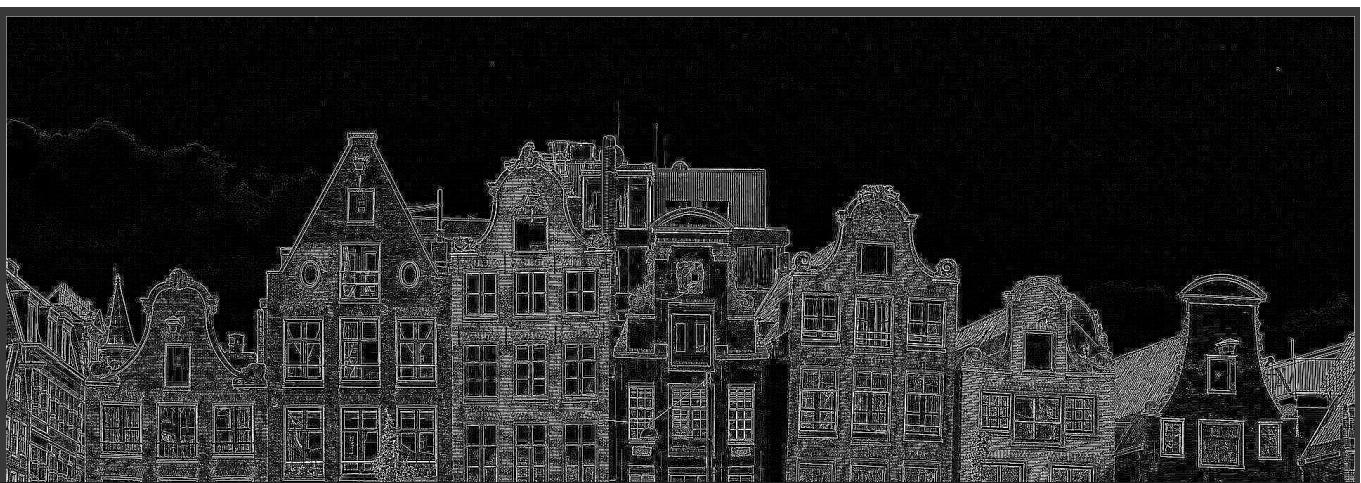
```
img.filter(ImageFilter.BoxBlur(2))
```



```
img.filter(ImageFilter.GaussianBlur(2))
```



```
image1 = img.convert("L")
image1.filter(ImageFilter.FIND_EDGES)
```



```
img_gray_smooth = img.filter(ImageFilter.SMOOTH)
img_gray_smooth.filter(ImageFilter.FIND_EDGES)
```



```
import numpy as np
np.array(img).shape
```

```
(1273, 1920, 3)
```

```
IMAGE = 2
```

```
from PIL import Image
from PIL import Image, ImageFilter
filename = "/Users/viswaksenajayam/Downloads/semester/5thSem/signal&image processing/home.jpg"
with Image.open(filename) as img:
    img.load()
type(img)
isinstance(img, Image.Image)
```

```
True
```

```
img
```



```
blur_img = img.filter(ImageFilter.BLUR)
img.show()
```

```
img.filter(ImageFilter.BoxBlur(2))
```



```
img.format
```

```
'JPEG'
```

```
img.size
```

```
(512, 384)
```

```
img.resize((400,400))
```



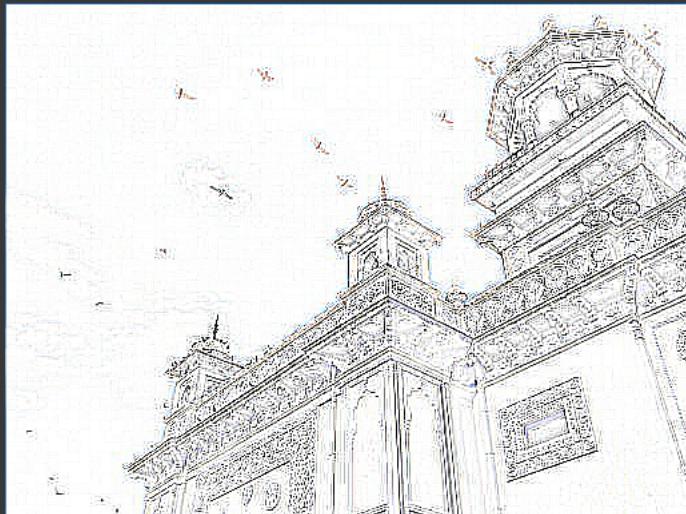
```
img.mode
```

```
'RGB'
```

```
img.filter(ImageFilter.BLUR)
```



```
img.filter(ImageFilter.CONTOUR)
```



```
img.filter(ImageFilter.DETAIL)
```



```
img.filter(ImageFilter.EDGE_ENHANCE)
```



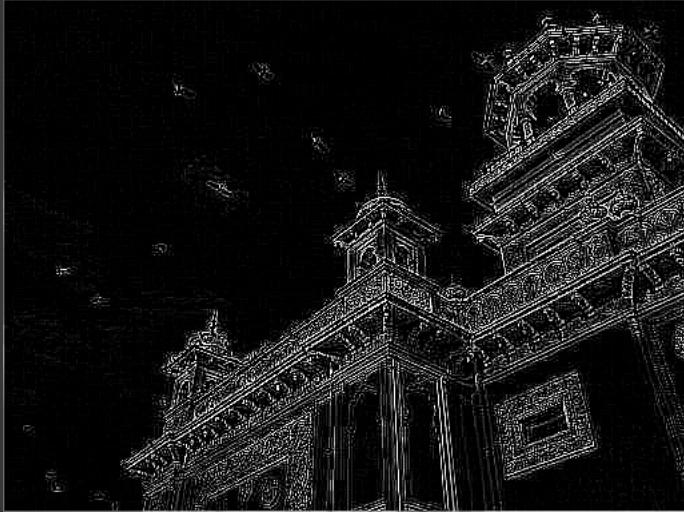
```
img.filter(ImageFilter.BoxBlur(2))
```



```
img.filter(ImageFilter.GaussianBlur(2))
```



```
image1 = img.convert("L")
image1.filter(ImageFilter.FIND_EDGES)
```



```
img_gray_smooth = img.filter(ImageFilter.SMOOTH)
img_gray_smooth.filter(ImageFilter.FIND_EDGES)
```



```
import numpy as np
np.array(img).shape
```

```
(384, 512, 3)
```