

```
# face detection with mtcnn on a photograph
from matplotlib import pyplot
from matplotlib.patches import Rectangle
from matplotlib.patches import Circle
from mtcnn.mtcnn import MTCNN
```

```
!pip install mtcnn
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Collecting mtcnn
```

```
  Downloading mtcnn-0.1.1-py3-none-any.whl (2.3 MB)
```

```
2.3/2.3 MB 34.7 MB/s eta 0:00:00
```

```
Requirement already satisfied: keras>=2.0.0 in /usr/local/lib/python3.8/dist-packages (from mtcnn) (2.11.0)
```

```
Requirement already satisfied: opencv-python>=4.1.0 in /usr/local/lib/python3.8/dist-packages (from mtcnn) (4.6.0)
```

```
Requirement already satisfied: numpy>=1.17.3 in /usr/local/lib/python3.8/dist-packages (from opencv-python>=4.1.0-
```

```
Installing collected packages: mtcnn
```

```
Successfully installed mtcnn-0.1.1
```

```
# draw an image with detected objects
def draw_image_with_boxes(filename, result_list):
    # load the image
    data = pyplot.imread(filename)
    # plot the image
    pyplot.imshow(data)
    # get the context for drawing boxes
    ax = pyplot.gca()
    # plot each box
    for result in result_list:
        # get coordinates
        x, y, width, height = result['box']
        # create the shape
        rect = Rectangle((x, y), width, height, fill=False, color='red')
        # draw the box
        ax.add_patch(rect)
        # draw the dots
```

✓ 9s completed at 10:35 AM



```
# create and draw dot
dot = Circle(value, radius=2, color='red')
ax.add_patch(dot)
# show the plot
pyplot.show()
```

```
filename = '/content/drive/MyDrive/Ndata/test1.jpg'
# load image from file
pixels = pyplot.imread(filename)
# create the detector, using default weights
detector = MTCNN()
# detect faces in the image
faces = detector.detect_faces(pixels)
# display faces on the original image
draw_image_with_boxes(filename, faces)
```

[Colab paid products](#) - [Cancel contracts here](#)