

# Laboratory 2

## Pikovets Artem KM-22

1. We are going to use PIL library for creating the image

```
from PIL import Image, ImageDraw
```

2. Create a blank 960×540 image (we also can specify the background color)

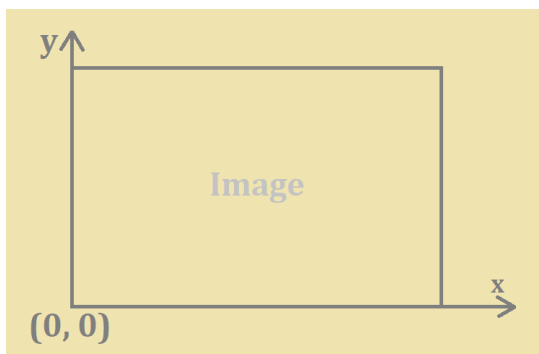
```
img = Image.new("RGB", size=(960, 540), color="#FFFFFF")
```

3. Draw the points on the image

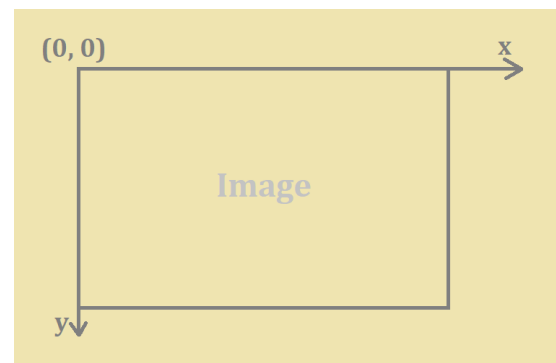
In the DS8.txt file we have coordinates in format (y, x):

```
389 599
389 600
389 601
389 602
389 603
390 174
390 175
```

Also ImageDraw draws points in (x, height-y) format:



*our Dataset axis*



*ImageDraw axis*

So we loop through each point in the dataset and draw it on the image:

```
with open('../data/DS8.txt', 'r') as f:
    for line in f:
        y, x = tuple(map(int, line.split()))
        draw.point((x, 540-y), fill="#B9AB8E")
```

#### 4. The result

```
img.save("lab2-result.png")
```

The logo consists of the text 'DS 8' on the top line and 'VTU' on the bottom line. The letters are rendered in a bold, serif font with a gold or bronze color. The 'D' and 'V' have a distinctive design with internal white lines that create a sense of depth or a 3D effect. The 'S' and 'T' are solid gold. The '8' is a simple, rounded shape. The 'U' is also solid gold. The overall style is clean and academic.