

## Library: mahotas



- Mahotas is a computer vision and image processing library for Python.
- Mahotas currently has over 100 functions for image processing and computer vision and it keeps growing.
- It has certain predefined functions which can solve the 'Where's Waldo' puzzle.

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mahotas has the predefined functions like:

- mahotas.convolve()

```
c = convolve(f.astype(float), kernel)
```

Combines 2 series of patterns.





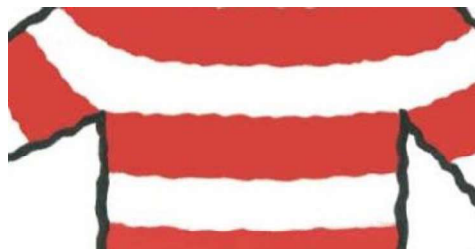
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Waldo's shirt is of a pretty basic pattern of red and white stripes.

```
shirt_pattern = mh.convolve(r-w, pattern)
```

mahotas looks for patterns of 'red' - 'white' along the y-axis.





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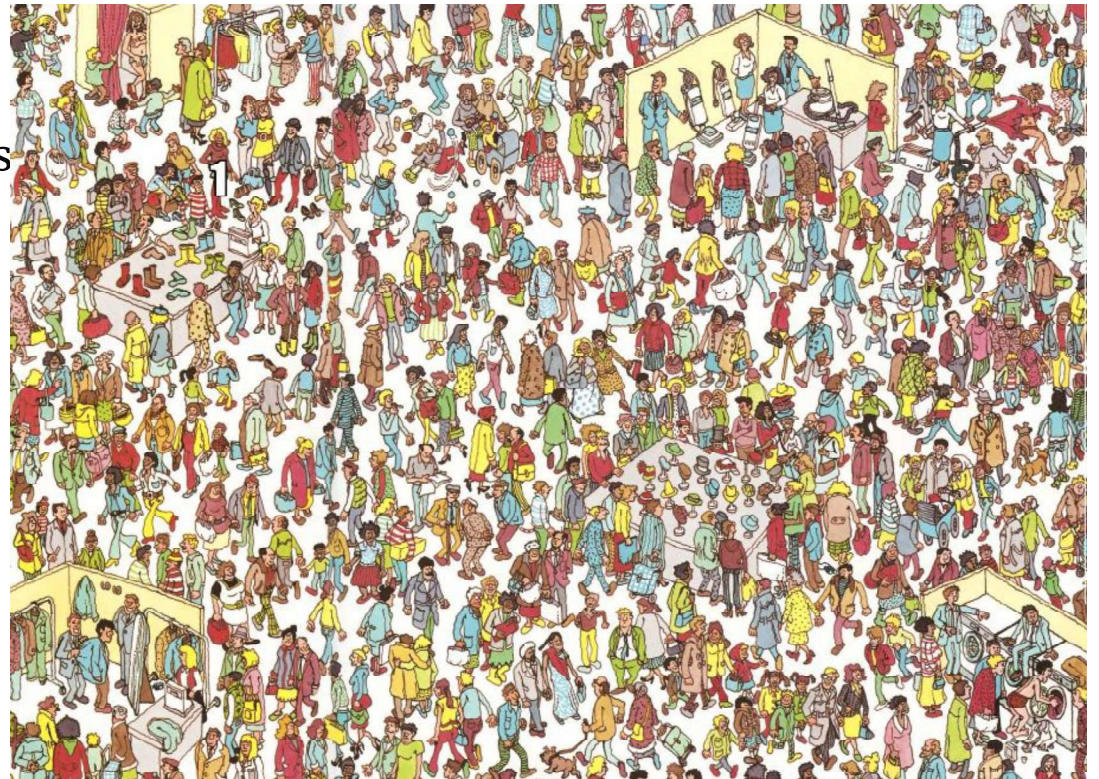


mahotas has predefined functions like:

- `mahotas.dilate()`

Dilation adds pixels to the boundaries of objects in an image.

Once the pattern is found, it is dilated (highlighted) and the entire image is toned.



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**mahotas**

The output image is stored,  
with the mask (erosion)  
effect.

```
from IPython.display import Image  
Image('wally_output.jpg')
```

