# Image Cropping via Semantic Segmentation

written by D.Gueorguiev, 5/27/24

## The image segmentation algorithm

Given: the original image given with the 2d array , the width and height of the original image

Output: segmentation mask

## The image cropping algorithm

Given: segmentation mask , the aspect ratio of the desired cropped image , the original image given with the 2d array , the width and height of the original image.

Output: Cropped image , the width and the height of the cropped image

Center of mass

*- aspect ratio*