# **CSE 344: Computer Vision**

Homework 2; Arka Sarkar 2018222

## **Algorithm Design**

The image is first converted into a binary image, then otsu is applied to this image and the threshold is computed.

We used 2 assumptions to select the foregound and background:

- 1) Object will be present at the center of the image.
- 2) Boundary pixels are likely to be the background.

After thresholding the binary image.

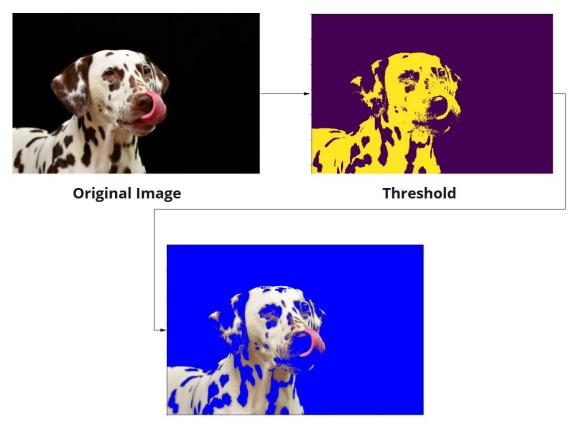
### Assumption 1

The assumption that the object is at the centre of the image, I selected the centre 15% pixels and calculated the majority of the pixels and that is selected as the foreground.

#### Assumption 2

The 10 border pixels are scanned and I calculated the majority of pixels and that is selected as the background.

### **Input and Output**



Otsu Applied (Foregound and Backgound)