

## Task 1

```
import json
from PIL import Image
import os

# Path to the dataset folder
dataset_path = "Mini_BAGLS_dataset"

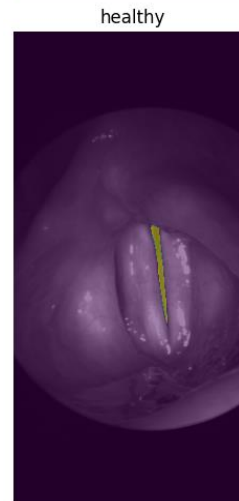
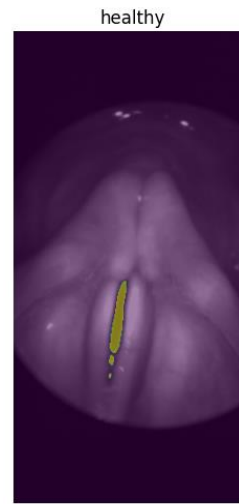
# List for images, segmentation masks, and metadata
images = []
seg_masks = []
metadata = []

for i in range(1,5):
    # Load & save image
    image = Image.open(os.path.join(dataset_path, f"{i}.png"))
    images.append(image)
    # Load & save segmentation mask
    seg_mask = Image.open(os.path.join(dataset_path, f"{i}_seg.png"))
    seg_masks.append(seg_mask)

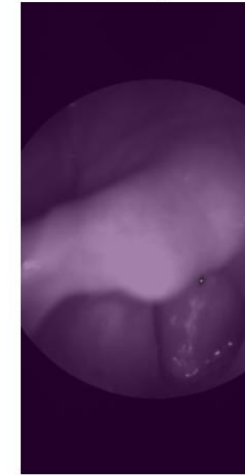
    # Load & save metadata
    metadata_path = os.path.join(dataset_path, f"{i}.meta")
    with open(metadata_path, 'r') as file:
        data = json.load(file)
        metadata.append(data)
```

✓ 0.0s

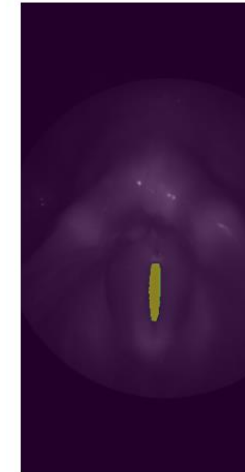
## Task 2



healthy



Muscle tension dysphonia



## Task 4

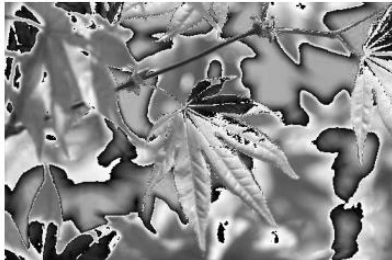
Average Method of RGB scaling is the preferred one, as it gives a balanced grayscale image by averaging all the three color channels.

## Task 3

Original



Lightness Method



Average Method



Luminosity Method

