

What Is Image Segmentation
Why Do We Need To Use It
Different Types Into It
U Net for Image Segmentation

1) Image Segmentation

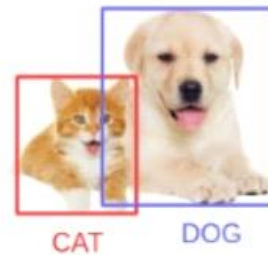


Decide is I A Dog or A Cat

The Way To Proceed



Image localisation



CAT

DOG

Object Detection

The Basic Is Image Segmentation , Here How They Differ



Object Detections



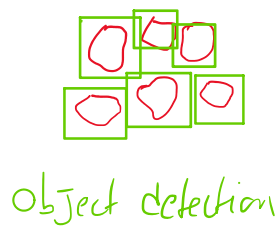
Image Segmentation

- ✓ figure out the position
- ✓ Detect
- ✓ Bound with Boundaries
- ⊗ Exactly get Shape

Exactly get Shape

Why Do We really Need This Image Segmentation?

Cancer Cells → Deadly Illness - Cells — Other (?)
 ↓
 Shape of Cancer Cell



Object detection

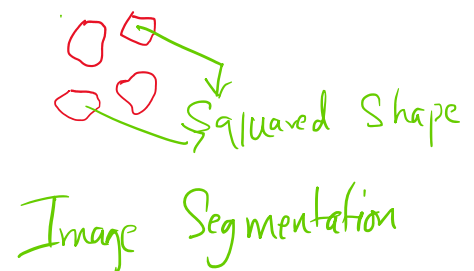
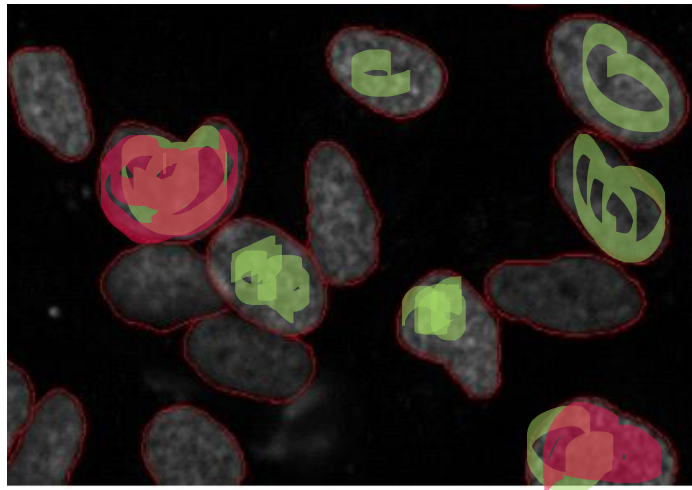
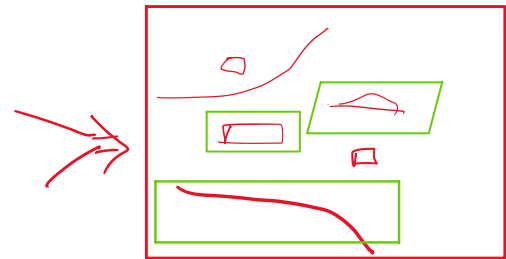


Image Segmentation



Space

- Aditya L1
- Chandrayaan 3



Different types Of Segmentation

- 1) Semantic Segmentation
- 2) Instance Segmentation
- 3) Panoptic Segmentation

→ Car, Tree, Road High level Understanding

→ Image with Two Different Crrs/person

→ Combine Semantic + Instance Segmentation
eg:- sky, object, stuffs

