

# Assignment 4 Undergrad

Saturday, March 17, 2018

11:34 AM

1. 480 bytes with winged edge, <sup>864</sup> if triangles are independent
2. Easier to store shape when comprised of smaller, easier to represent shapes.
3. Object partitioning creates sets by looking at the objects themselves, whereas space partitioning groups based on areas of the image/scene.
4. You perform the laplacian smoothing operation on them.
5. for every point  $p$   
    if (group( $p$ )) == even  
         $p = \text{black}$   
    else  
         $p = \text{white}$   
end loop  
  
group( $p$ ):  
 $p - p_0$  where  $p_0$  is a defined point on surface  
    if floor( $(p - p_0)_y$ ) == odd  
        if floor( $(p - p_0)_x$ ) == even  
            return even  
        else  
            ...

```
        return odd
    else
        if floor((p - p0)x) == odd
            return even
        else
            return odd
```