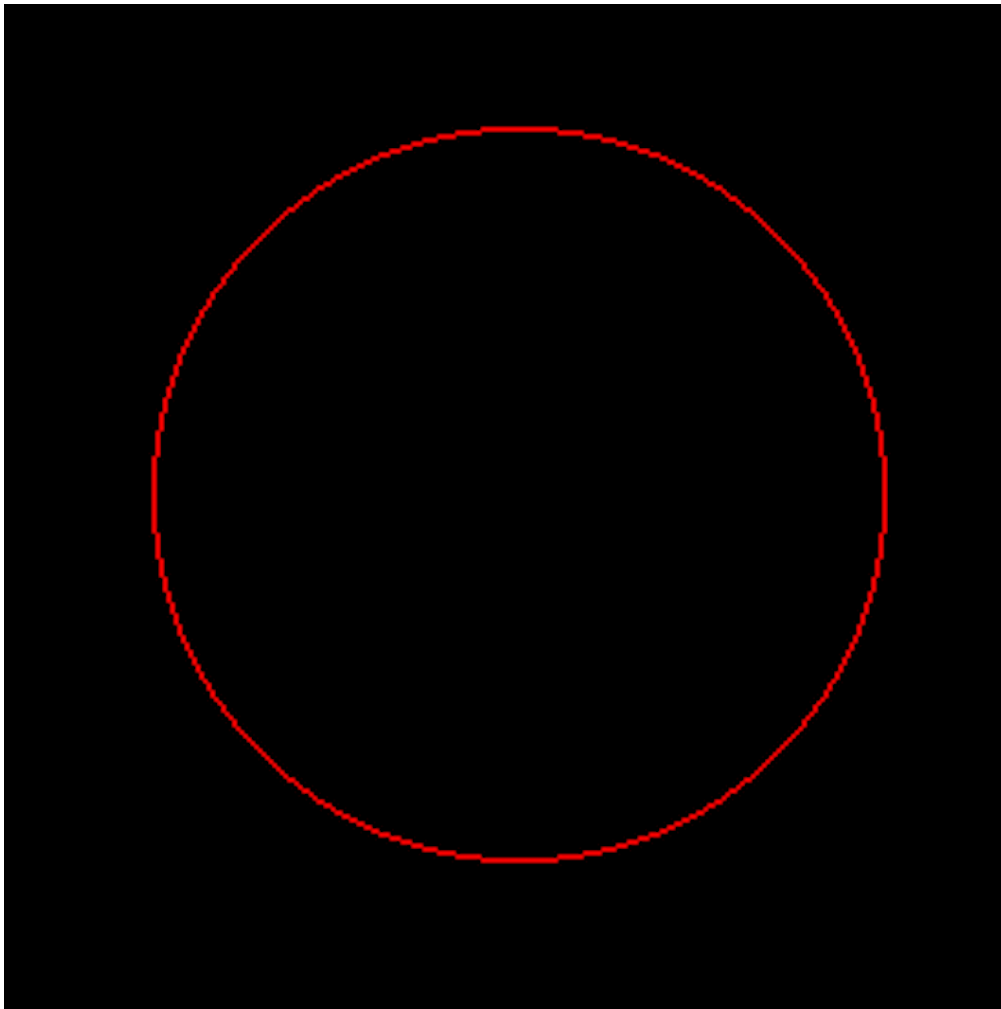


Assignment #1  
COEN290/148  
Fall 2021  
Yuan Wang

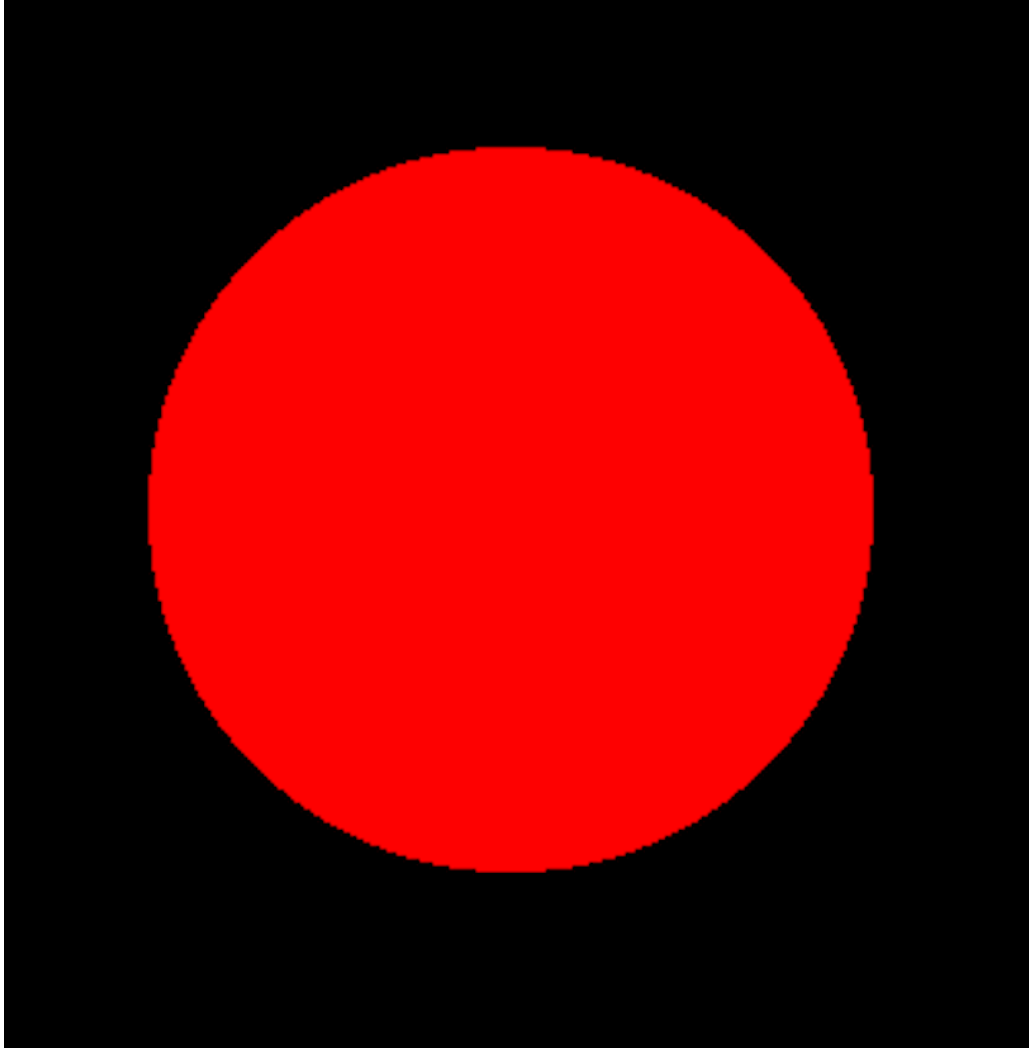
In this assignment, you are going to draw circle. there are 3 parts of this assignments.

1. Use the circle rasterization algorithm introduced in lecture to draw a circle like this:

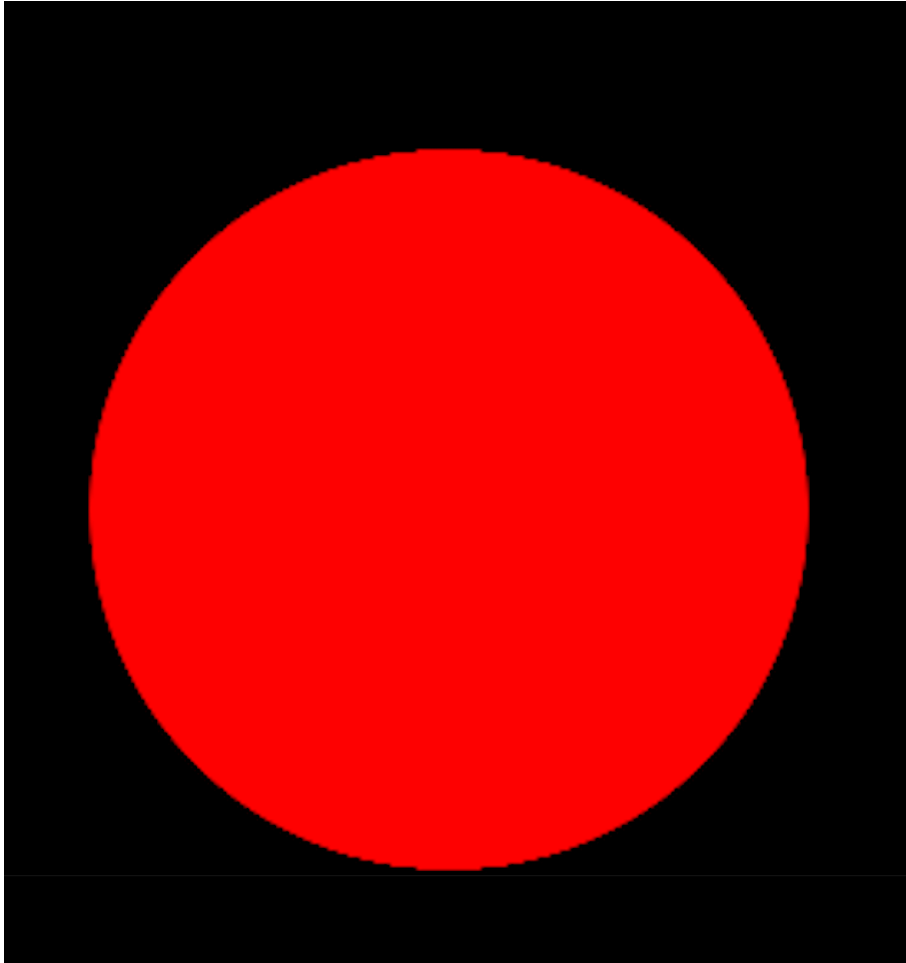


you define Radius and color yourself

2. Fill the circle with color, like this:



3. add anti-aliasing



You can come up with your own idea of creating anti-aliasing effect. (Like for example, assign different pixel color value according to how far it is outside the circle)

You will be using Python to implement this. You don't need to write rendering part.

You are provided with a rendering code in Python. This code will draw a single pixel on screen. All you need to do, is to add the algorithm to produce all the (x, y) coordinates for rendering function

**This is a the pixel rendering code.**

```
from PIL import Image
img = Image.new('RGB', (320, 240)) pixels = img.load()
pixels[100,100] = (255,0,0) img.show
```

Save this code into a .py file. Then add your algorithm code to this code.

(if you don't know Python, google the basic grammar, you don't need to use complicated Python features.)

Write comment in your code to explain your algorithm.

Zip your source code. and 3 result images. name your zip file with your name and assignment number