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Computer Graphics 2016

HW 3 – Rasterization

For this assignment I used the Bresenham Algorithm to rasterize lines and the algorithm from class to rasterize a circle.

Resources:

- Line & Circle Rasterization lecture 6
- https://en.wikipedia.org/wiki/Bresenham%27s line algorithm
- https://www.cse.iitb.ac.in/~paragc/teaching/2011/cs475/papers/bresenham line.pdf

I wrote methods

- drawLine(...)
 - o Draw angled lines
- drawVerticalLine(...)
 - Needed for drawing vertical lines
- drawCircle(...)
 - Draw Circles
- switchToOctantZeroFrom(...)
 - o [from wiki]
- switchFromOctantZeroTo(..)
 - o [from wiki]
- findOctant(...)
 - o Derived from the Bresenham Algorithm paper

OUTPUT:

