

# CMSI 371-01

## COMPUTER GRAPHICS

Spring 2016

### Assignment 0308 Feedback

Outcomes that eventually cover both 2D and 3D continue to max out at | for now because this assignment remains in 2D.

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*Notes while running (high-priority notes are marked with \*\*\*):*

- Oops! You were supposed to replace the scene with something built from your sprites!
- Your neighborhood page shows that the sprites *are* loaded...but you just never use them.
- Filters are fine otherwise.
- The gradient circles look right, but take way too long to draw. We'll have to see what the code says to track down the bottleneck.

*Code review (refer to <http://lmucs.github.io/backing-guidelines/> for code-review abbreviations):*

1. OK, so your sprites are indeed loaded into both pages...but are left uncalled. (4a, 4d)
2. Looks like you did some research for your filters, especially the neighborhood ones...kudos. +(2c, 3c, 4d)
3. \*\*\* And there is your problem: the new plotCirclePoints implementation doesn't really take advantage of the octant anymore. That's why things seem so slow: *the code is filling the entire circle for every vertex of the octant.* That is the root of the problem. If you look at the new plotCirclePoints, you'll notice that it never actually uses the x and y arguments in a meaningful way. But that's the key—the code *shouldn't* ignore those arguments, instead *only filling the region "covered" by that vertex.* Otherwise, why bother calling plotCirclePoints at all? (2d, 4a)
4. Plus you have glitchy indentation and some commented-out code. (4c)

1a — | ...Slight knock for not using your sprites.

2c (max |) — |

2d — / ...Significant inefficiency with chosen gradient circle implementation, plus missing the point of plotCirclePoints in the first place.

3c — +

4a — / ...Missing usage of your own sprites *and* excessive inefficiency with the circle gradient.

4b — | ...This one just hits the design miss of nullifying the circle octant optimization.

4c — | ...Sum total if code presentation glitches, particularly in *primitives.js*.

4d — | ...Missed instruction to draw your own scene to filter.

4e — Somewhat terse commit frequency nor descriptiveness, even considering the commits that took place before the files were moved to the final location. (/)

4f — Even after *git* merge fix, quite a bit of work submitted after the due date, up to March 14. (/)