

CIS 330: Project #4C

Assigned: May 31st, 2015

Due: June 5<sup>th</sup>, 2015

Note: can be handed in for full credit up through June 11th

Note: no work will be accepted after June 11<sup>th</sup>

Worth 3% of your grade

Please read this entire prompt!

Assignment:

- 1) Extend your project 3 to having timing information
  - a. The timings should be added to logger
  - b. The timing for each Execute method should be logged individually
    - i. Note: if you do the inheritance stuff cleverly, you should only have to add two gettimeofday calls total
- 2) Run a small performance study using your time
  - a. Create the following pipeline: one source that creates a solid red image, one source that creates a solid blue image, and one Blender (who's inputs are the red image and blue image).
  - b. Run the program multiple times. The first time make the solid colored images be 250x250. Then 500x500. Then 1000x1000. Then 2000x2000. Study the timings.
  - c. Write a short report (i.e., several sentences) about your findings. Please do not use MS Word or RTF. This short report should be in a text file, so that I can easily view it with my "vi" program.