

257 / 757

Programming in the Arts with Processing

Homework 8

Start:	Tue 3.4.14
Due:	Tue 3.17.14
Goal:	A Screen Saver

Course Web Site:<http://www.andrew.cmu.edu/course/60-257/>**Assignment:**

You will write a psudo screen saver that meets the following specifications:

1. ___ The program will run in 2D.
2. ___ Using arrays to store the necessary data, move figures using a bouncing algorithm.
3. ___ The figures must have a reasonable random range of sizes and delta values.
4. ___ The initial positions of the figures must be reasonable and away from the edges of the window – otherwise they can get “stuck” on the edges.
5. ___ The figures must have random colors.
6. ___ If the user presses the space bar, the arrays must be reinitialized.
7. ___ If the user presses any other key, the program must terminate – this will be demonstrated in class – be there!
8. ___ For Open Processing, dimension the window to **600 X 400**.
9. ___ For Handin, dimension the window to
`displayWidth X displayHeight-50`.
10. ___ The figure is up to you but it must be more than a simple ellipse or rectangle.
11. ___ The number of figures must be controlled by a constant (final) value.
12. ___ An “unpublished” bonus of immense value will be announced in class...

Example: (These are just circles – your figure must be more complex.)