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Programming in the Arts with Processing

In Class Exercise #12**Day:****Due:****Goal:****Tuer 3.4.14****In Class****Arrays #1****Course Web Site:**<http://www.andrew.cmu.edu/course/60-257/>**Assignment:**

- You will be given a starter file.
- Open the .pde file.
- The .pde file has four arrays of **float** and one array of **color**. These five arrays work as parallel arrays to provide the location, size, change-of-size and color of eight figures – either a square or a circle.
- The functions **growFigures ()** and **drawFigures ()** are incomplete – finish them as follows:
- For **growFigures ()**, traverse the array and:
 - add the **deltaDimVal** for each figure to the **dimVal** (*dimVal is the size of the square or circle*) for each figure.
 - If the **dimVal** for a particular figure gets larger than the **width** of the window, assign reasonable random values to the **xVal**, **yVal**, **deltaDimVal**, **dimVal** and **ColorVal** elements of the array for that figure.
- For **drawFigures ()** traverse the array and:
 - set the fill to the **colorVal** value for this figure,
 - draw a rectangle for odd array indices
 - draw a circle for even array indices.

hint (use the % operator)

Typical Expected Output: