Circle Composition: Design Principles Incorporating Randomness

When considering this task, which incorporates randomness into certain design principles, I decided to draw a grouping of randomly colored dots with black borders and then randomly resize the shape of the dots and deterministically change the position before drawing the group of dots again. I started by creating a single randomly colored dot and then made a row of four dots and duplicated the row three times making a single grouping of dots. I then resized the group of dots and deterministically positioned them under the first group of dots and drew them. I took that entire drawing of the two groups of dots and then enforced a randomly generated alteration of size upon them and drew the two groupings again, creating the full composition as it is shown.

I incorporated non determinism in two main aspects of this program which draws colored dots. Firstly, the particular color chosen for each dot is randomly selected from a variety of available colors. Secondly, I incorporated a random alteration of the size of the two groupings of dots and then drew them again. The deterministic factors of the actual position of the dots within the group and then the positioning of the two groups on the canvas were pre defined and hard coded by myself.

The image is a grouping of sixty four randomly colored dots with black borders. The viewer can pick out four distinct groups of sixteen dots which all have similar size within their localized groups. The particular orientation and angle of the vertical columns of dots within the groups substantiates the visual flow of the picture from top right to bottom left in a top down fashion. There exists a distinct flow of the picture from top to bottom, which I did not originally intend, due to the size and position of the groups of dots. When looking at this picture for a significant length of time I imagine the dots as flowing water which is cascading down a single waterfall with four distinct tiers.