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**Susan Happersett\*** (fibonaccisusan@yahoo.com), 344 Grove Street #10, Jersey City, NJ 07302. *Fibonacci Drawing - Exploring the beauty of the Fibonacci Sequence through abstract drawing.*

The mission of my artistic practice is to present the aesthetic values of mathematics through a purely visual language. I have developed a drawing system of grids and counted mark making to express mathematical ideas as abstract art work. Before I start the process of making a drawing, I first make a plan that is written in a plan book and that contains all decisions and instruction to generate the drawing. Then I execute this algorithm by hand. The number of marks in each grid cell holds significance. The placement of the individual strokes in each cell is arbitrary. This type of drawing started with my interest in the Fibonacci Sequence. Fibonacci numbers are a recursively defined sequence. Each subsequent number is the sum of the preceding two numbers. This sequence has become my metaphor for growth. I made drawings, painting, artist's books and stop-motion animation videos based on this theme, exploring the number themselves, as well as the ratios of consecutive Fibonacci numbers and their patterns of self-similarity. I represent these aspects of the Fibonacci Sequence through the relative density of the markings that make up the drawing and proportions of the grids in the drawings. (Received September 15, 2012)