***Exploring Dwell Times for Dynamic Fractal Growth and Decay Sequences***

Description of Data Acquisition: Participants view images of a series of fractals. Each fractal is viewed as it grows through iterations, and as it decays through iterations in reverse. Participants use a computer to view the images in a self-paced slide show. The time each participant looks at an image is recorded as a “dwell time.” All participants viewed dwell time slideshows containing a variety of fractals, but with multiple visits to the lab, they viewed different sequences of the fractal images.

Description of Raw Data: Dwell times were recorded for every image in a slideshow. The images are coded to represent growth and decay sequences, and position in the sequence. I was interested in whether there were distinct patterns of dwell times for growth and decay sequences.

Potential Analysis Strategies

* Wrangle the data from program output csv files
* Graph dwell time sequence for each subject.
* Compare growth vs decay dwell times for each subject.
* Compare growth vs decay dwell times across subjects.
* Determine the slides which elicited the longest and slowest dwell times.
* Normalize dwell times for natural decrease across time.
* Compare dwell times for each fractal type.
* Compare dwell times for ordered vs disordered sequences.
* Compare dwell times for each subject to individual and group means