Math 115

Ruth Rowland Logo

For my logo, I had 4 things in representation. And they are symmetry, golden rectangle, spiral, and a platonic solid. For this paper, I will go over the mathematics of them and why I personally picked them out for my logo.

Symmetry, what we learned in class was over shapes and there symmetry. And we also talked about there two ways to use symmetry which are to either simplify, or to make it more complex. Which then after we went into it a little bit you gave us a paper and it covered rotational and reflective symmetry. Rotational Symmetry means in a shape there is a center point around which the object is turned (rotated) a certain number of degrees and the object looks the same. Reflective Symmetry where one half is the reflection of the other half. Which one is on my logo is self-explanatory. The reason why I used Robert Downy Jr. though and not me is not self-explanatory. I used him because he is one of my favorite actors to watch at the movies my favorite movie to date though is his two Sherlock Holmes movies and I was curious how he would turn out.

The Golden Rectangle is a rectangle whose side lengths are in the golden ratio. For this representation, I have two one a building and another with a spiral which is a flower. The building which was the golden rectangle is the Parthenon which when coming up with the ratio 1.618 the Greeks came up with and named it what it now is. The reason I used the Parthenon is last summer for my Senior trip we went to Greece and our first stop was at the Parthenon. I also used a flower in my logo. When in class I thought, it was neat that even in nature something like this could happen.

Platonic Solid is the final one I used in my logo. Which is a polyhedron all whose faces are congruent regular polygons, and where the same number of faces meet at every vertex. But the one thing I am focusing on is with the picture it has duality. Which a shape is in another shape but it is not just any shape it is a shape that fits with the other shape. The painting that I have for it is called Stars by M. C. Escher the Platonic shapes that the artist has are solids constructed of intersecting octahedral, tetrahedral, and cubes.