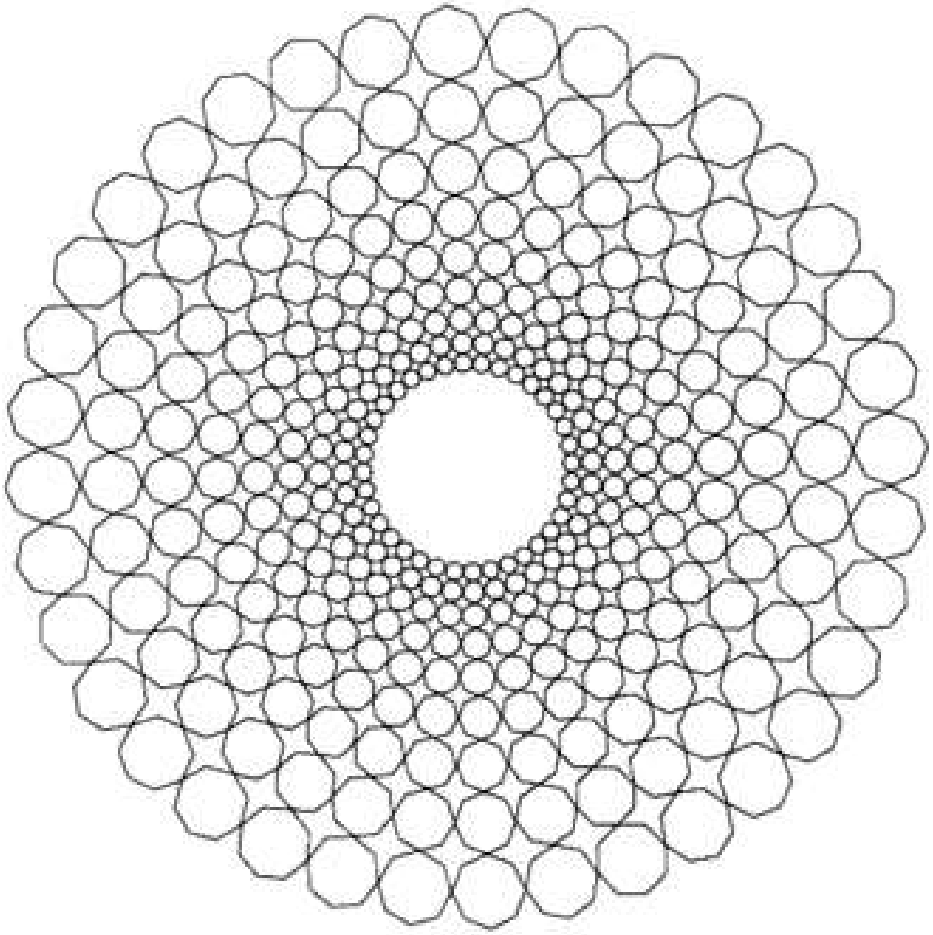
Recoding project

Esthétique Algorithmique IMAC1

OCTOGONAL WELL

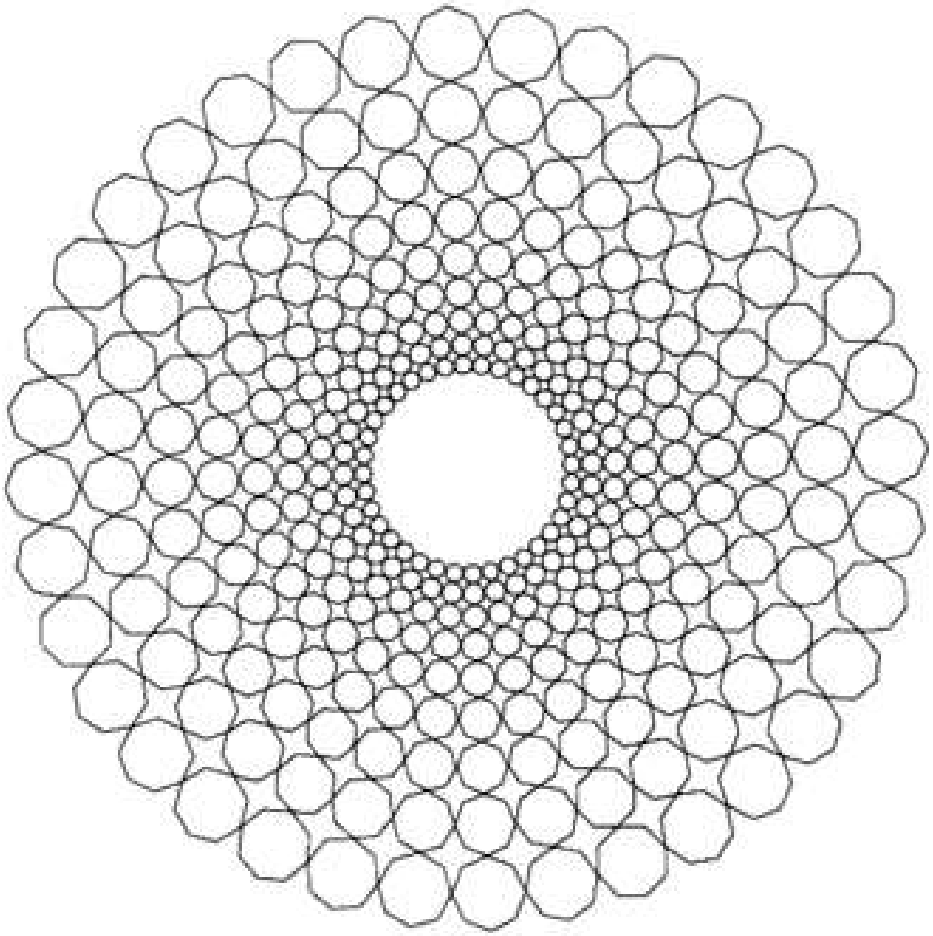
Donald K. Robbins



Elise Gondange

GIT repositorie : https://github.com/Elisegdg/P5_project

Works analysis :



This artwork is kind of a minimalist one. There's not a lot of elements. This artwork is made of octagons that are all reunited to form a circle. These octagons are all made with a thin black outline. It gives the impression that they are all attached to eachother. The octagons are bigger on the outside circle, and they are getting smaller one by one until the center of the form.

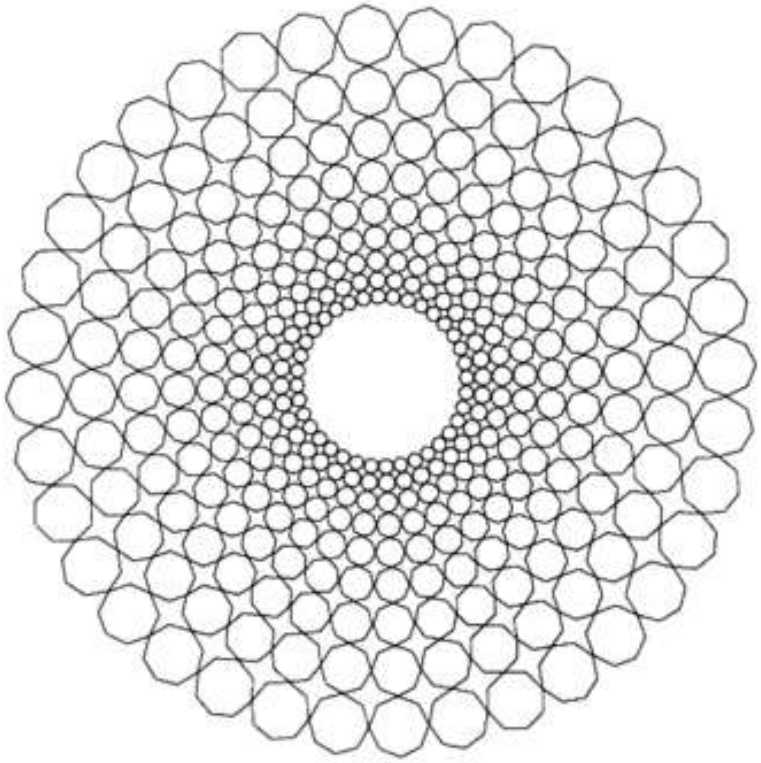
I chose this artwork for its simplicity. I found this form quite relaxing to watch (kind of hypnotic) and I thought the algorithm behind it might be interesting to understand. Also it has made me think of a rose window drawings, as the ones we liked to color younger.

Year : 1969 ; Material : drawing, computer generated ; Type : drawing

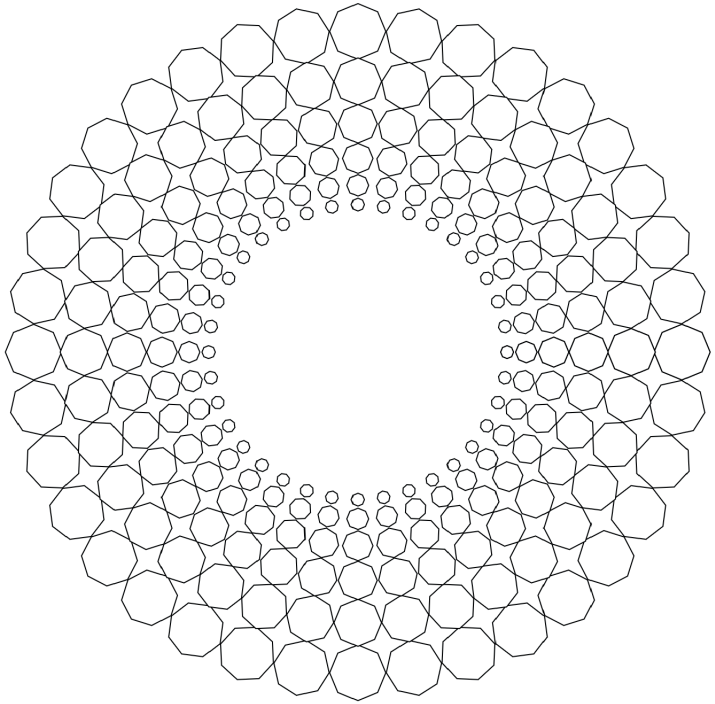
Pseudo-code :

First draw an octagon composed of 8 segments. Then, using degree system, draw an octagon every 10 degrees until 360 with a rotation each times to create your first big circle. Repeat this step by just changing your first octagon size and position to create the other circles.

As you can see, the work is not exactly the same. I struggled a little bit with the sizes and dimensions because the dimensions of the original artworks are not mentionned in the data website. However, this is quite close from what was expected.



Original



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Project extension :

For the extension of this project, I decided to create an interaction with the user. Because at first sight the artwork made me think of the hynotical circles, I wanted to try to create that kind of animation.

The circles are rotation animated and the user can choose the radius of the octagons and the number of circles by the control panel. I also chose to add some gradient colors to remind the rose window. Furthermore, when the user press continuously any key of his keyboard, it creates another animation and all the octagons disappears.
Here it is some pictures of the obtained visual but in order to helps you to better understand , I have put a video in the git repository.