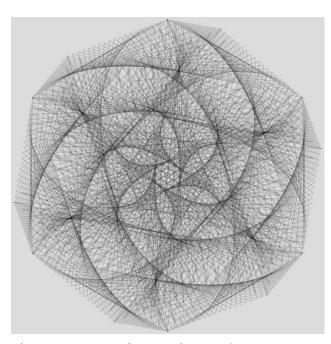
From VF to String Art with Larger Jump Sets

Having a larger number of jumps in a jump set requires having larger n, which increases the number of lines in the VF if VCF = 1. As we consider final images using S subdivisions, the number of lines in the image often gets to the point where it is impractical to try to follow exactly how the image was created. The question becomes: How can one use VCF > 1 and or SCF > 1 to find images among neighboring images that are much more densely packed?

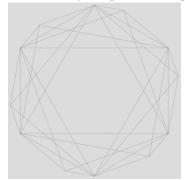
There are a number of ways to proceed, and we will only examine a couple of options here, more to offer suggestive hints than to lay out a complete superstructure of what you will find as you explore larger jump set images.

Take, this 684 line P = 35 Hexagons with off-center 6,2 needle fan (18,19,35,J(1,2,3,4,5,6). It is reminiscent of needle fans examined when k = 2. The image remains manageable because VCF = 3.

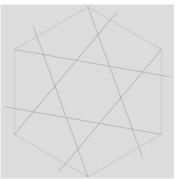


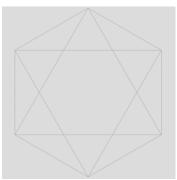
(Change to n = 17 or 19 and get 1938 or 2166 lines, respectively.) Or change $J_6 = 6$ to 8 above and a 2052 lines image occurs because VCF = 1. Discernable patterns are visible, but are more difficult to see due to overall line density issues.

Some nearby images have large SCF. The P = 19 VF is 36 lines, P = 36 is 19 lines, P = 38 is 18 lines, and P = 57 is 12 lines.

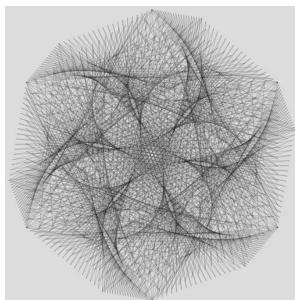








Use the scroll key on P to check out other options. Each of the following images maintains SCF = 1 so there are 684 lines. P = 37 is a rotating 0 6 petal internal flower. [MA. This image is single step with DL = 37. $1 = DL \cdot P = 37 \cdot 37$ MOD $36 \cdot 19$ and $V_{used} = k \cdot n / VCF = 36$ (as noted in the P = 19 VF image above).] P = 41 is a rotating 0 6 petal internal flower. P = 49 is something akin to six rotating feet. The last two P = 53, a 6,2 internal star with eyelet ends and curves, and P = 59, a 6,2



internal star with curved ends, are shown here. Change to <u>n = 15</u> for <u>P = 59</u> and note five large and five small off-center gathering points in the resulting 570 line image.

