Morph- Radial Area Demo

OK, so we're going to morph.graphics and this is how we access the tool. So in morph.graphics you can see we can get started right away here in the browser. I can click on getting started, it's going to open the application straight there. So step one is importing your data. You can upload a data set and it will show you the limitations of what the browser can handle. For this data, in this case, about three hundred rows of data, a maximum file size of two megabytes spreadsheet format standards, kind of Excel spreadsheets, .xls, a .csv file it's fine, too.

But in this case, we're going to show you for the purposes of this demo, I'm going to use a sample dataset. We do have sample datasets built into the tool so you can get started using Morph right away with this sample datasets. We've built in some fun depth sample datasets here. Largest cities in the world, Fishers' Iris data set, European Parliament election, Honey Production in the USA, Mathematical Number sequences, World Happiness Report. So I'm gonna go ahead and kind of pick this Mathematical Number Sequences dataset. That's kind of a fun one. And we also include the source information of these sample datasets as well. So this has powers of 10, excuse me, primes, powers of two, powers of ten and the Fibonacci sequence.

So we'll click on that one and you can see here the columns that are brought up rank, prime numbers, powers of ten, powers of two, and fibonacci. So we can also look at more data, excuse me, more rows per page and see we have three hundred rows in this particular dataset. So once I have the data set built in, my next step after previewing the data is to then design and pick a chart type. So you click on the design step and we can actually click on six different chart types. We have a pie chart, bar chart, scatter plot, line chart, area timeline, radial area. So we really kind of explore, you know, traditional kind of data visualization tools, tools like RAWGraphs and Plotly, and Tableau and Flourish and these other data visualization tools. But we've kind of stemmed and built off of those traditional tools again to create something purely for abstract art, right?

So we're going to create something where we can select any one of these chart types and then add a randomizing effect that is built in with the generative computer algorithm. So as a user, it allows you to kind of really create art based on choices that ultimately the kind of computer generates for you. So let's click under one of these, let's click this radial area.

So I'm gonna fill that random, fill at random so that these fields populate randomly from the data source. And then I'm just going to kind of customize things a bit further. If I don't like it I can just clear and click fill random again and see what new kind of preview shows up for each of these charts. So that's kind of a really cool design and color. So I'm going to evolve that and go into my next step and click on the chart to evolve my tree.

And again, every time you click on the original chart, it's gonna make these new nodes or leaves and generate them from the original. So you can start to really experiment and start to see some of the cool, funky shapes and abstract images that start to show up. You can zoom out again to see kind of your tree starting to take shape and form. And let's go into one of these, and on the editor. This looks like it's going to turn into kind of a cool shape and something that might also have some dimensionality effects to it, kind of change the color saturation and maybe we'll go here and we'll just kind of play with the offset and see what kind of abstract shapes we can get to our X and Y positions on this diagram here.

The rank factor we can start to manipulate that looks quite fun to have that random factor built in to each one of these sliders so we can really get in and manipulate this and really have fun play with shapes and visual effects here. Also, there's like rotation so we can manipulate the offset range factor of that. And then we'll just click save, once you're kind of happy with that leaf. And you can certainly get lost in this tool and play with it just like the tree in the editor for a long time, kind of allowing your eye to kind of just guide your your art output and experimental decisions.

So let's go in to the export and we'll click on one of these and let's check this out with the animation built-in. To get this to start with our little our circular graph image and then start to see it manipulate through these other sequences that we've generated through the evolution tree. And I kind of want to speed this one up. So we will include a duration, just like four seconds.And we'll change the background color here. Kind of funky purple background. And keep the title.

There we go. So let's save this. But sometimes it will take a little bit longer, depending on the size of your animation, the number of how big your tree is, the sequence of images. So we can slow that down, maybe. Grab a still image, save PNG.

So that's Morph in a nutshell. You can use Morph, again, kind of experimental tool for data visualization, for creating really abstract, wacky, funky, crazy images for your next data report, or just to start playing with generating abstract art from data and also creating some, hopefully, some fantastic art, original art. Thank you.