

A.I generated music. (How you can do it)

Level: Beginner



Art that is generated by artificial intelligence (like the image on this page) is currently a very hot topic. However, did you know that A.I can also generate music?

A.I has been used to create music for some time. There are a number of websites and software downloads that can be used for this purpose.

However, a new website has been launched on which you can experiment with A.I generated music.

Go to: www.riffusion.com and give it a try. It is very basic in terms of the music it can create but the technology behind it is brilliant. This is a big step forward for artificial intelligence.

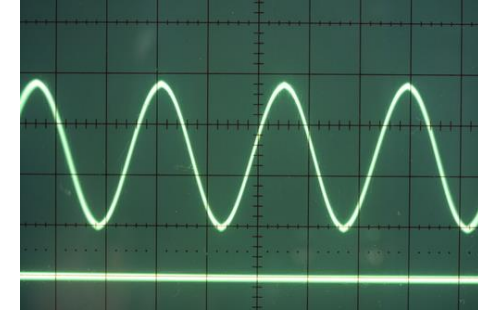
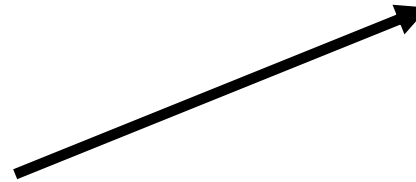
This paper explains how it works.

On Riffusion you create music by entering text prompts. You basically describe what you want to hear.

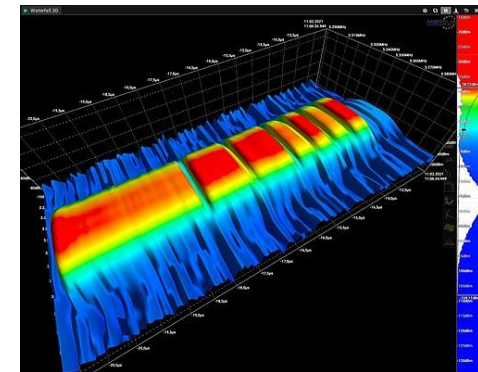
Sound can be represented as a wave. You may be familiar with the Oscilloscope which can create a wave pattern on a screen which represents a sound that is being fed into the scope.

Several sounds all being played together (like music) can be represented by something called a spectrograph. The result is a 3D shape created by all the sounds waves stacked side-by-side.

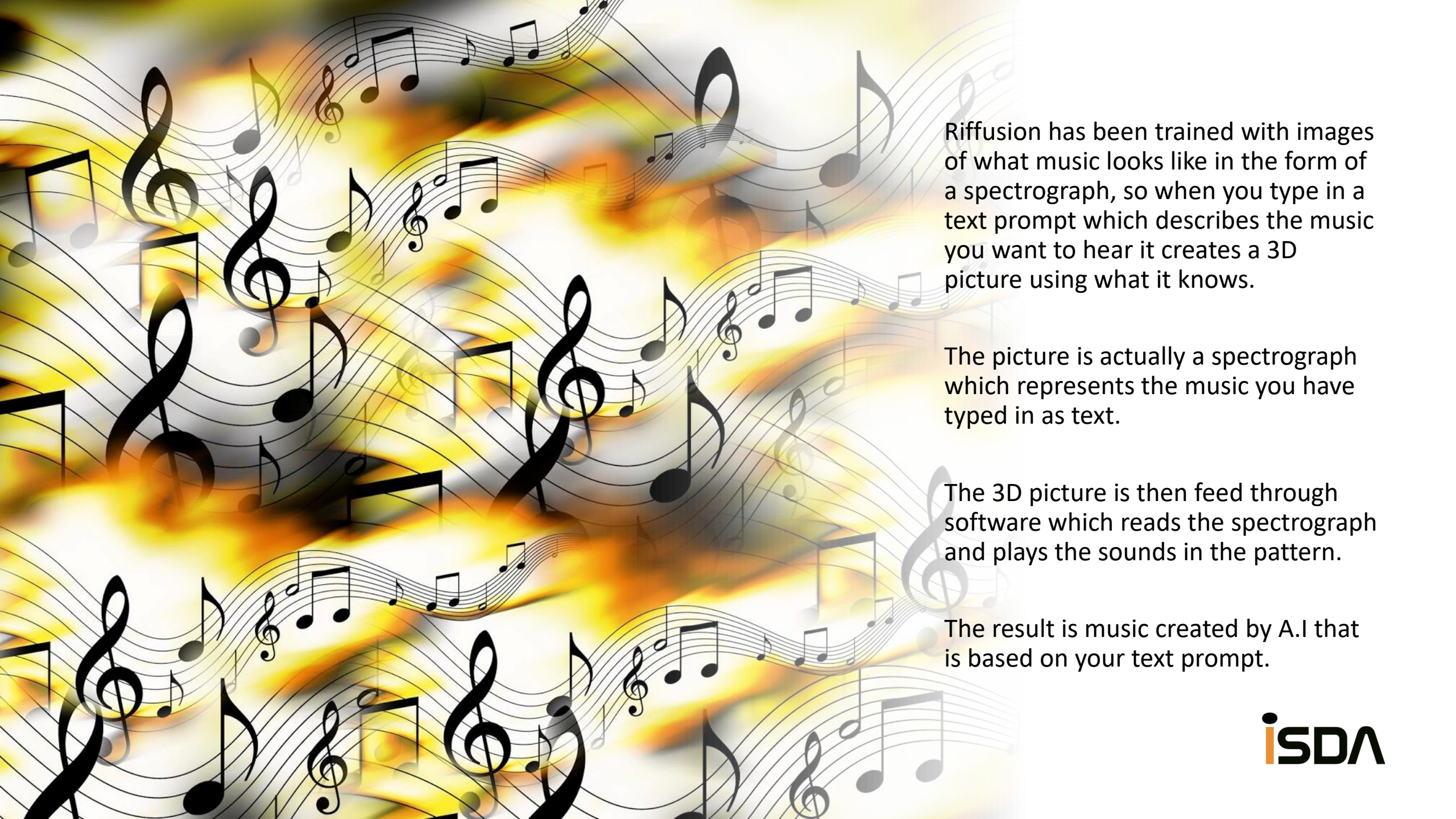
The spectrograph image looks like art, and that is how Riffusion works.



Sound wave



Spectrograph



Riffusion has been trained with images of what music looks like in the form of a spectrograph, so when you type in a text prompt which describes the music you want to hear it creates a 3D picture using what it knows.

The picture is actually a spectrograph which represents the music you have typed in as text.

The 3D picture is then feed through software which reads the spectrograph and plays the sounds in the pattern.

The result is music created by A.I that is based on your text prompt.



Now you can be a composer and musician just by entering text prompts!

This is only the start of a new groundbreaking technology. However, like most things that are powered by A.I expect rapid development.

As is the case with A.I generated art, artists and musicians will feel threatened by technology creating what they create. The fact is that A.I is unstoppable, so the only way forward is for creatives to grasp the opportunities the technology presents and work with it rather than against it.

Have fun!



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