

# Fractal Arts With Background Background Image Search Using Keyword In JWildFire

**J**wildfire already has an inbuilt feature to add background images to a given fractal art. But the limitation is users need to insert required images after searching according to their preferences. When fractal arts are using for music visualisation it requires external applications and effort to gather background images.

## **Significance of adding background image to a fractal art.**

Currently fractal art's colour is assigned according to the emotional colour generated by the song. Apart from that adding a background image to a fractal art enables below entertainment values and effective visualisation possibilities.

### **○ Capability to add most suitable/ mostly describing image for a song.**

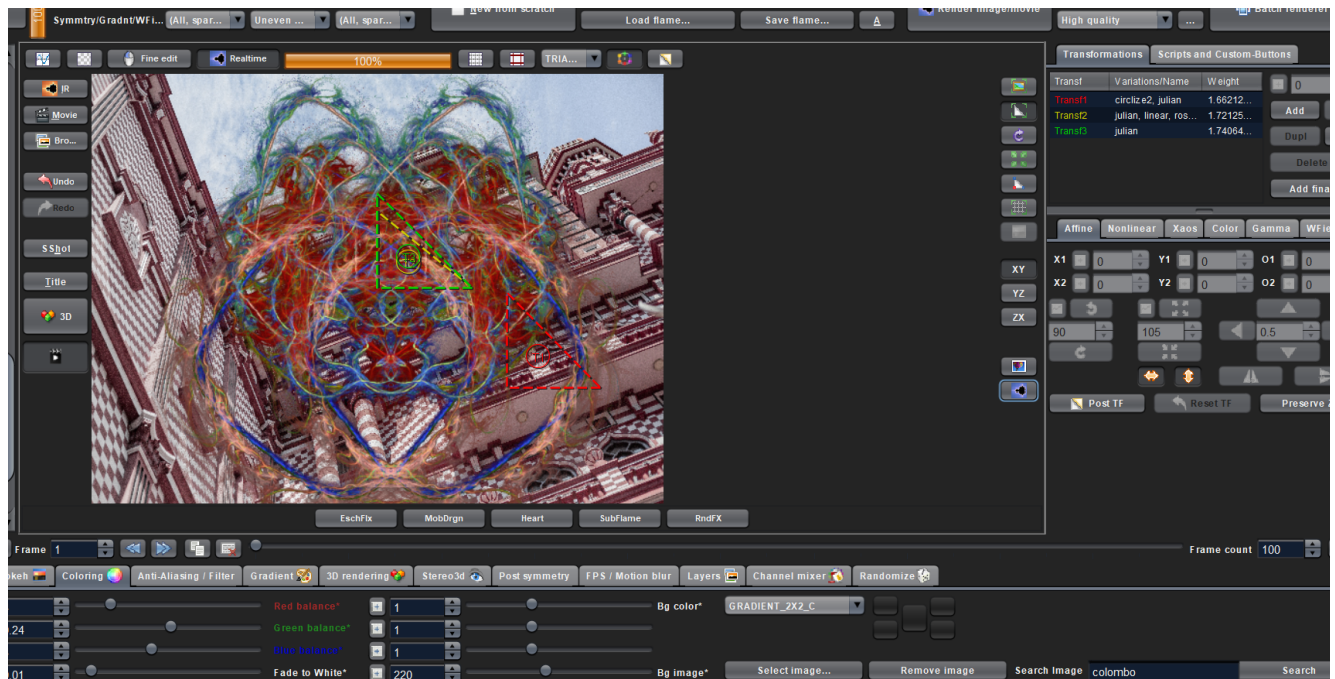
There are some songs that describe about a place, an object, a theme etc. If there is a way to add an image relevant to that use case, definitely it will enhance the music visualisation as well as the feeling generated by that song.

### **○ Capability to add an image relevant to the emotion generated by the song.**

Fractal art based music visualisation is performed according to the song emotion. After obtaining the emotional category, then we can include an image relevant to the described or expressed emotion in the song. Then the emotional feelings generated by the music visualisation can be enhanced. It will increase the entertainment value generated by the outcome also.

## About newly added search procedure to generate and save background images in JWildFire.

As below section includes the procedure to generate and add background images in JWildFire is easy to follow. After these steps it will display the selected image with Fractal Art Music Visualisations.



User interface for newly added image search feature

1. According to the above image in the right corner (in the colouring tab) there is a search facility to search image using a given keyword.

Once the user has entered a keyword or a phrase and after clicking the search button, it calls to image providing external API. After obtaining the response from the API, it JWildFire first 10 images in the “D:\JWildFireFiles” folder.

2. Then users can select the most suitable image from that folder using select image functionality available in the JWildFire and add that image as the background image to the generated fractal art.

