

FRACTAL

By Elise Pasquier & Inès Girard

Dear Diary,

I have to tell you something. In class, our project in European English was based on fractals. I let you imagine how boring it ^{could be!} Contrary to what I was ^{expected} convicted, that it is not. Don't judge a book by the cover my diary! ^{could have been}

To start with, I will ^{you} explain what ^{is} a fractal. Really this word is on every lip however no one is able to give the mere and simple definition given by Mandelbrot: "Many important spatial patterns of Nature are either irregular or fragmented to such an extreme degree that ... classical geometry ... is hardly of any help in describing their form. ... I hope to show that it is possible in many cases to remedy this absence of geometric representation by using a family of shapes I propose to call fractals -- or fractal sets".

Besides Fractals are often associated with recursive operations or shapes or sets of numbers, in which the result of the operation is used as the input to the same operation repeating the process indefinitely. The most famous fractals are psychedelic images which ^{are} used to be considered as drugs. Indeed, such as on Youtube we can find ^{with} videos, ^{in which} ^{for} during more than one hour, colorful shapes succeed each other in the order to create an infinite journey inside the screen. You know... Commonly, flash colors are used to improve the effect. Badly, these "trip" can send you to the hospital. People are ^{growing} completely ^{plunging} in to the infinite shapes and forget the reality... For instance, videos can make people crazy. Do you read this my diary? Because of a video. This kind of young man who used that to the purpose of ^{proof} ^{is} stone is totally stupid. I can't bear it!

Moreover, my friend, I have found ^{proof} that fractals are in the whole world. According to my Cartesian point of view, I have ^{from} not been convicted of this sentence. ^{is not convincing.} Nevertheless, a man has lived an incredible history which has changed my mind... So be calm and read this. Indeed, after a dramatic accident which has hurt his head in 2002, the man ^{spectacularly} ^{maniacally} ^{has} developed a ^{so much} special vision: he sees every single things as fractal. That's incredible! I would like to say that all physique manifestation, such as the ways-particles duality, are representing in his mind as ^{several} multiple shape which begin and begin and never ^{end} stop. His world look like as sequences of geometrical form. Everything ^{are} decomposed by this vision as a common denominator of stuff. My diary, I am asking my self about the way of life, the way of the nature, causes and consequences, and if each one of that are not defined in a precise goal for the purpose we will never find...

Nevertheless, fractal plays a key role with the aim ^{to} of deduct the noise. Fractals can be very useful in our daily life. For instance, the sound ^{inside} proof's walls, built with fractals, grants a reduction of sound waves ^{repercussions}. We can find this type of construction on the edges of highways. Moreover, at a time when waves ram the wall, they are trapped in the endless shapes. As a result, the loudness is approximately reduced of 75%. ^{sound}

What do you think about it my diary? It's revolutionary! This invention ^{has} conveys ecological advantages, why our fool mayor doesn't install these walls in the street?

On the whole ^{well} ~~fractal~~ is a revolution. You and me, we know this reality however I am asking my self about when the scientist will understand this situation... It is a long way to travel. *Go*

And we will do that.

With love, see you next time, xoxo