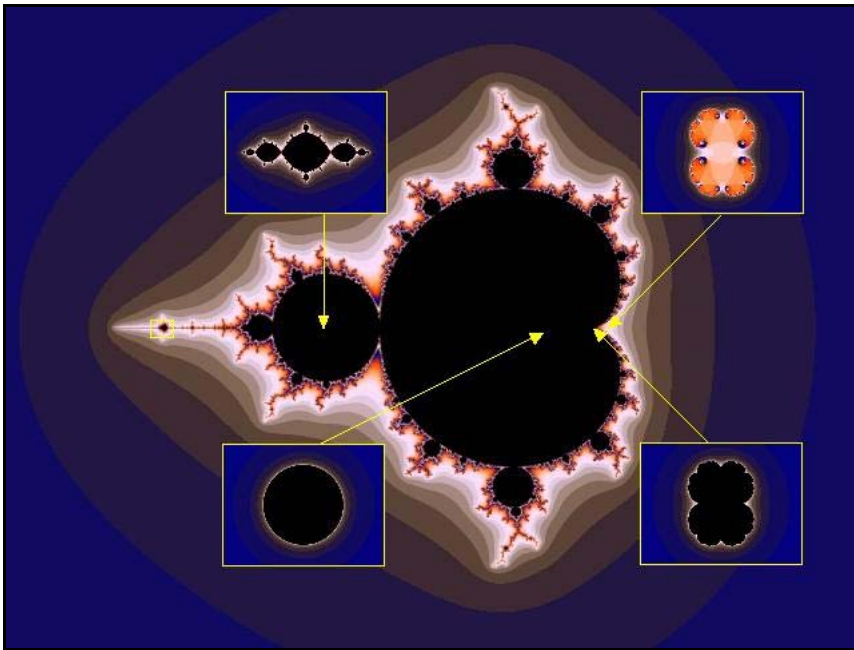
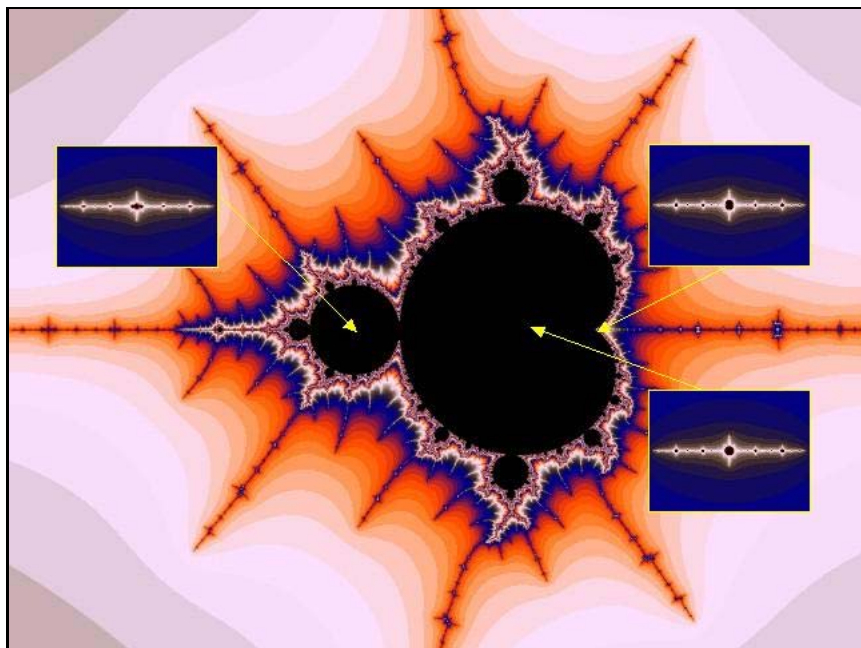


## 7) Relations between the Julia sets and the Mandelbrot set



**Fig 1. Mandelbrot - Julia.**



**Fig 2 Spiky Mandelbrot - Julia.**

These two images illustrates the relations between most of the Julia sets shown earlier in these articles and the Mandelbrot set. Each coordinate in the parameter ( $c$ ) plane, where the Mandelbrot set resides, is a seed for a Julia set. The Julia set in the right upper corner (to start with the first image) is totally disconnected, since the parameter seed is picked up outside the Mandelbrot set ( $c = 0.3$ ). The Julia set in the right lower corner has its parameter seed picked up exactly from the aisle of the Mandelbrot set. And so this Julia set is connected and have an infinite hierarchy of aisles. This Julia is the original to

the cauliflower-forms occurring in the lesbian mysteries in articles 4 and 4b.

The yellow rectangle on the spike shows were the second image, "Spiky Mandelbrot-Julia", is zoomed in. Here all related Julia set are spiky. They differ only in their details. I leave to the diligent reader to see the relationships these spiky Julia sets have with some of the Julia sets in the first illustration. Dig in the folder where you've saved the other articles of this series. It's also a good idea to take help of the Switch Mode, described in the very previous article.

If you want to see the coordinate of a pixel in a fractal in UF, do as follow:

1. Click "Location" in Properties.
2. Click the pencil right to "Center".
3. Move the cursor in the image area, and the coordinates will be displayed at "Center".
4. Don't forget to click the pencil again when you've played around. If you happens to click the mouse when the pencil is activated, the coordinate at the cursor-position will be the new center of the image.

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Regards

Ingvar