

6) Exercises with the Julia Switch feature

This is an exercise in creating Julia sets using Switch Mode in UF.

- 1) Start with an image of the whole Mandelbrot set.
- 2) Click the switch mode button, and you will obtain a window to the right among the properties
- 3) Move the pointer over the image with the Mandelbrot image and see how the Julia shape changes in the above window.
- 4) If you want a full Julia-window, just click where you are. Note that the new window have the same settings as in the original Mandelbrot window.
- 5) Of cause you can use on a magnified Mandelbrot image also. However if you have zoomed in very deep, The whole of the Julia set will change only in its magnified details.

Now ladies and gentlemen, I would be glad if you write down your observations, with or without any illustrations, regarding the relations of the Julia sets to the Mandelbrot set.

If you don't have UF, this exercise can be done in any fractal software allowing you to produce Julia sets interactive from the Mandelbrot set. So let's go.

Regards

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