

Java Fractals

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1. Fractal examples:

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prog1 = "clear();\n\n f(x,r)=r*x*(1-x);\n\n orbit(f);\n" prog2 = "clear();\n\n
f(x,r)=r*x*(1-x);\n\n orbit(\"zOrbitDiagramPlugInDemo1\",f);\n" prog3 = "clear();\n\n
f(x,p)= if x < 0 then 0 else\n\n if (x >= 0) & (x < 1/2) then p*x else\n\n if (x >= 1/2) & (x <
1) then -p*x+p else 0;\n\n orbit(\"zOrbitDiagramPlugInDemo2\",f);\n" prog4 =
"clear();\n\n\n re=-.966;\n\n im= -.253;\n\n controlVar(re,im);\n\n\n f(z)=z^2+re+im*i;\n\n
julia(\"zJuliaPlugInDemo1\",f);\n" prog5 = "clear();\n\n\n re=-.122;\n\n im= .745;\n\n
controlVar(re,im);\n\n\n f(z)=z^2+re+im*i;\n\n\n julia(\"zJuliaPlugInDemo2\",f);\n"
prog6 = "clear();\n\n\n a=2;\n\n controlVar(a);\n\n\n f(z,c)=z^a+c;\n\n\n
mandelbrot(\"zMandelbrotPlugInDemo2\",f);\n" prog7 = "clear;\n\n\n a=2.75;\n\n
controlVar(a);\n\n g(x)=a*x*(1-x);\n\n plotMap(\"zMapPlotPlugInDemo1\",g);\n" prog8 =
"clear;\n\n\n a=2.75;\n\n controlVar(a);\n\n g(x)=a*x*(1-x);\n\n
cobweb(\"zCobWebPlugInDemo1\",g);\n" function execute(program) {
document.fraidApplet.execute(program); }

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