
Subject: mandelbrot

Posted by [oxfordenergyservices](#) on Wed, 14 Apr 2010 11:49:16 GMT

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I was looking for a mandelbrot set generator for idl to show off idl to someone

I found this http://rosettacode.org/wiki/Mandelbrot_set#IDL but I remember seeing a more efficient version (just a few lines) once.

anybody got a mandelbrot set generator in the fewest lines?

Russ

Subject: Re: mandelbrot

Posted by [pgrigis](#) on Fri, 16 Apr 2010 14:25:28 GMT

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On Apr 16, 9:44 am, Dave Poreh <d.po...@gmail.com> wrote:

> On Apr 15, 7:16 am, Paolo <pgri...@gmail.com> wrote:

>

>

>

>> On Apr 15, 4:39 am, Dave Poreh <d.po...@gmail.com> wrote:

>

>>> On Apr 14, 8:20 am, Paolo <pgri...@gmail.com> wrote:

>

>>>> On Apr 14, 7:49 am, a <oxfordenergyservi...@googlemail.com> wrote:

>

>>>> > I was looking for a mandelbrot set generator for idl to show off idl

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>>>> > I found this http://rosettacode.org/wiki/Mandelbrot_set#IDL but I

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>

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>

>>>> > Russ

>

>>>> This comes pretty close to a minimum set of commands:

>

>>>> ;setup coordinates

>>>> x=findgen(512)/511*4-2

>>>> xx=x#(x*0+1)

>>>> zz=complex(xx,transpose(xx))

>>>> cc=zz

>

```
>>>> ;compute set for n=100 iterations
>>>> niter=100
>>>> for i=0,niter-1 do zz=zz*zz+cc
>>>> inside=where(abs(zz) LE 2,complement=outside)
>
>>>> ;this just for display
>>>> mand=xx*0
>>>> mand[inside]=1
>>>> tvscl,mand
>
>>>> Ciao,
>>>> Paolo
>
>>> Any help with KOCH curve?
>
>> what have you tried? how did it fail?
>
>> Paolo
>
> I just want to know how we could produce it (KOCH curve) in IDL.
> Dave
```

You write a procedure that, given two points a and b returns 5 points a,x,y,z,b such that x is one third of the way from a to b, z is 2 thirds of the way, and y builds an equilateral triangle with x and z. When that is ready and working, you modify it to recursively call itself. It's pretty straightforward.

Ciao,
Paolo
