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COGS 104

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Assignment #7: The Mandelbrot Set

clear

clf

Mandelbrot=zeros(300,200);

r=0;

for Real= -2:.01:1

r=r+1;

i=0;

for Imag=-1:.01:1

i=i+1;

z=0;

zs=0; %collects z values

for n=1:100

z=(z^2)+complex(Real,Imag);

zs(n)=z;

end

if max(abs(z))<2

Mandelbrot(r,i)=1;

end

end

end

colormap([1 1 1;0 0 0])

image([-2:.01:1],[-1:.01:1],Mandelbrot'\*2)

