Lab 1 Report
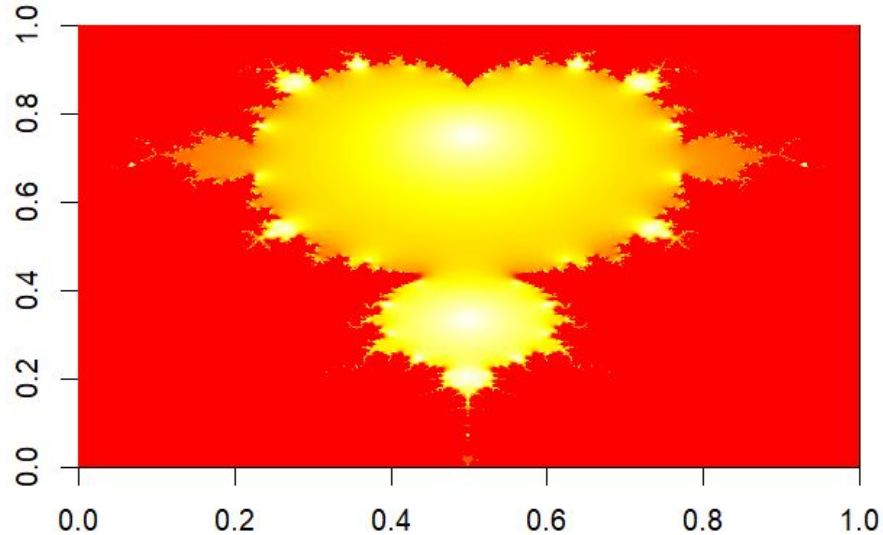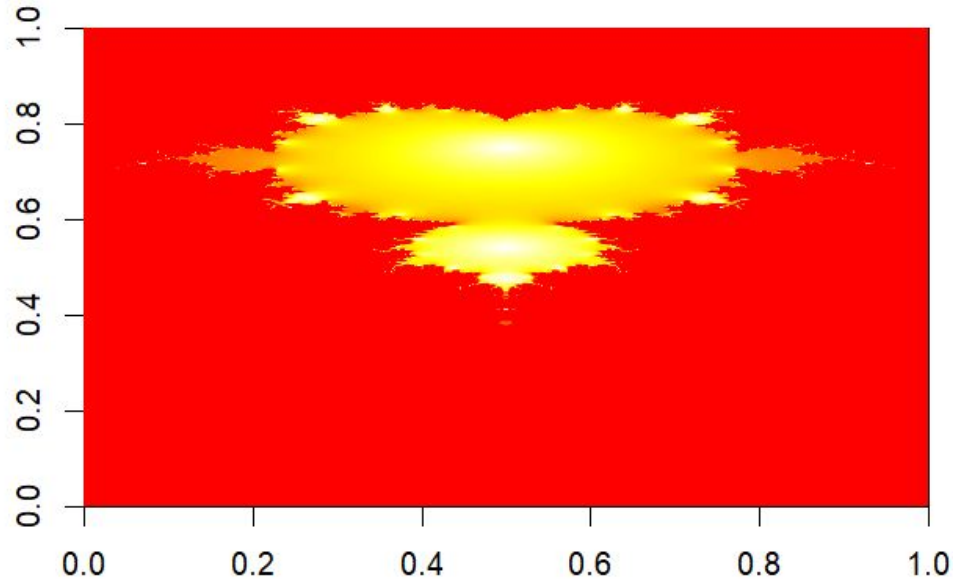
Talha Hamza

1. Change the dim parameter to 1000.
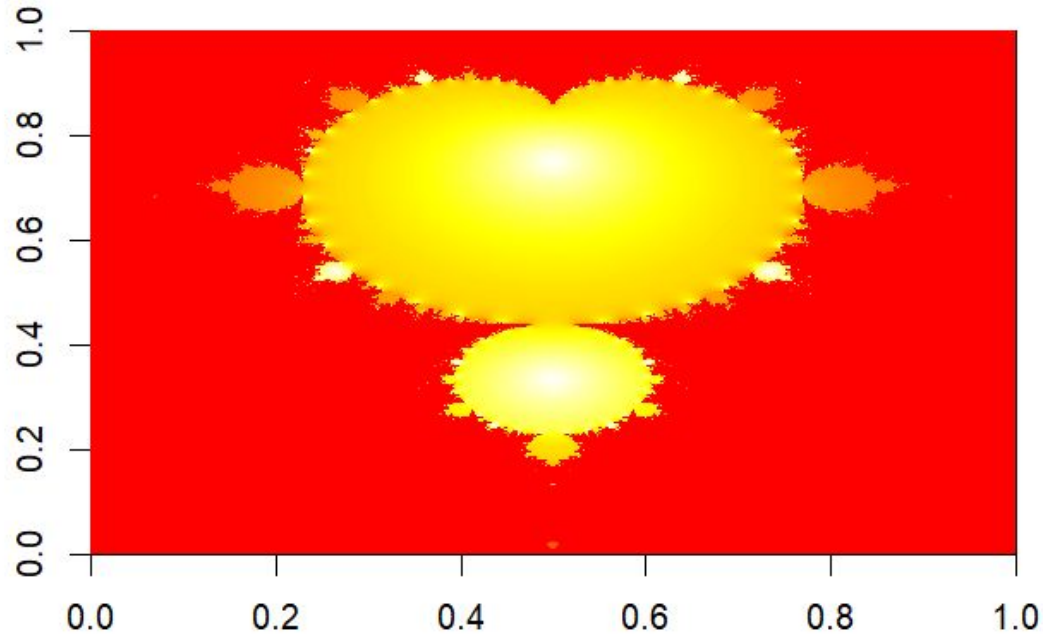

I did not observe any remarkable change relative to the original parameter of dim = 500
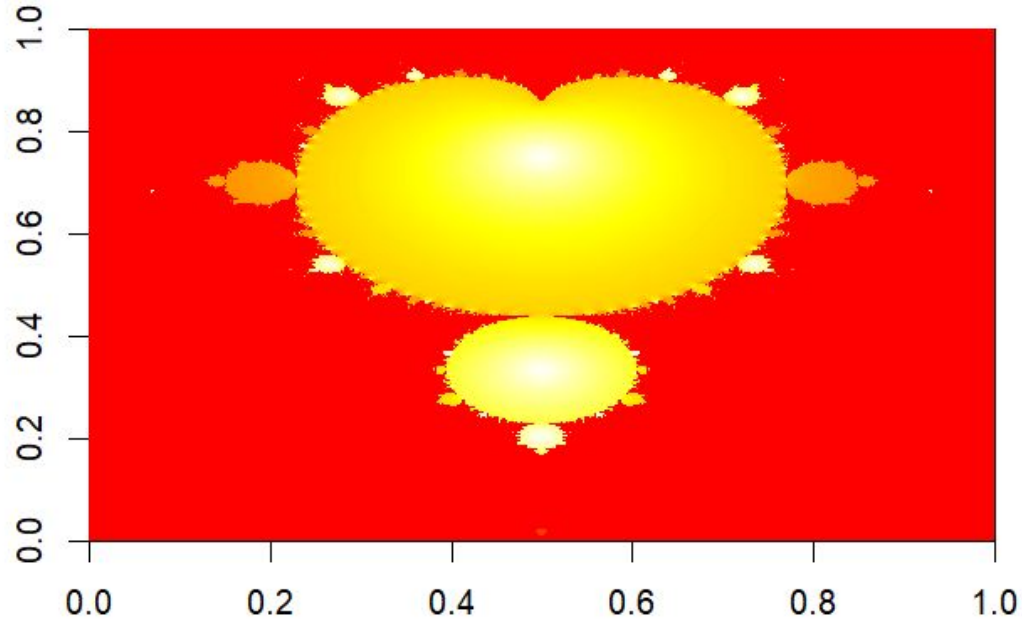
2. Change xlo to -3.6 and xhi to 1.2.

I observed the fractal shrunk vertically.
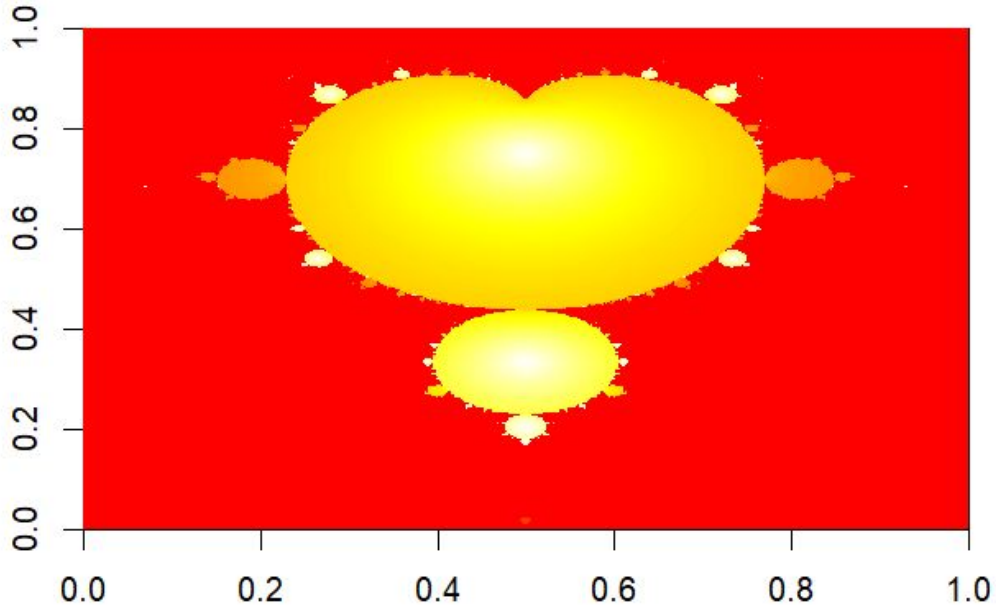
3a. Changing iter to 50

I observed that the fractal's edges have become smoother
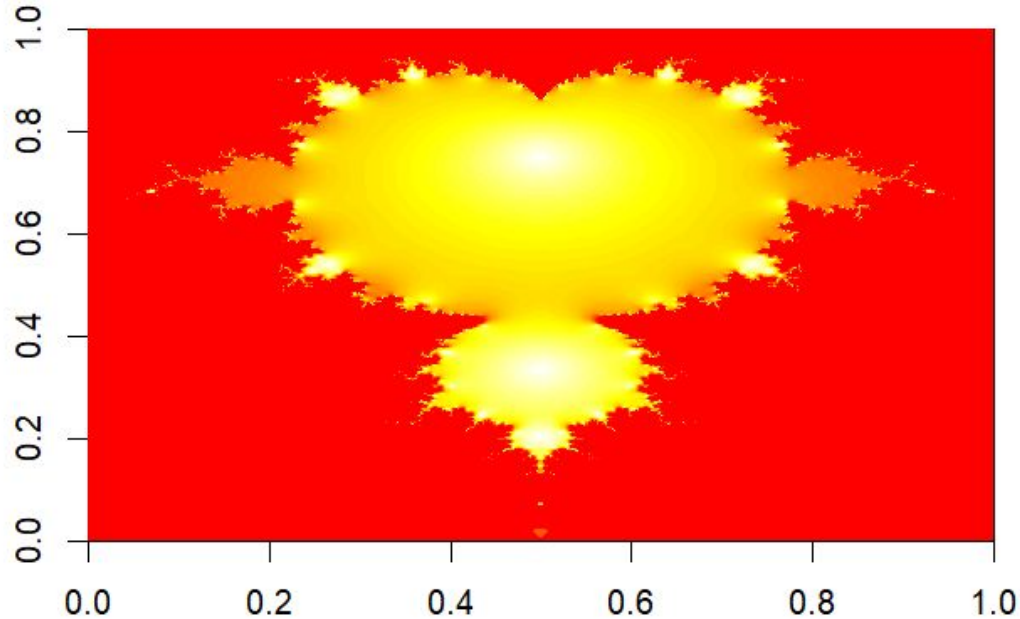
3b. Changing iter to 100

I observed that the fractal's edges have become smoother, and the top two branches have changed color from orange to yellow
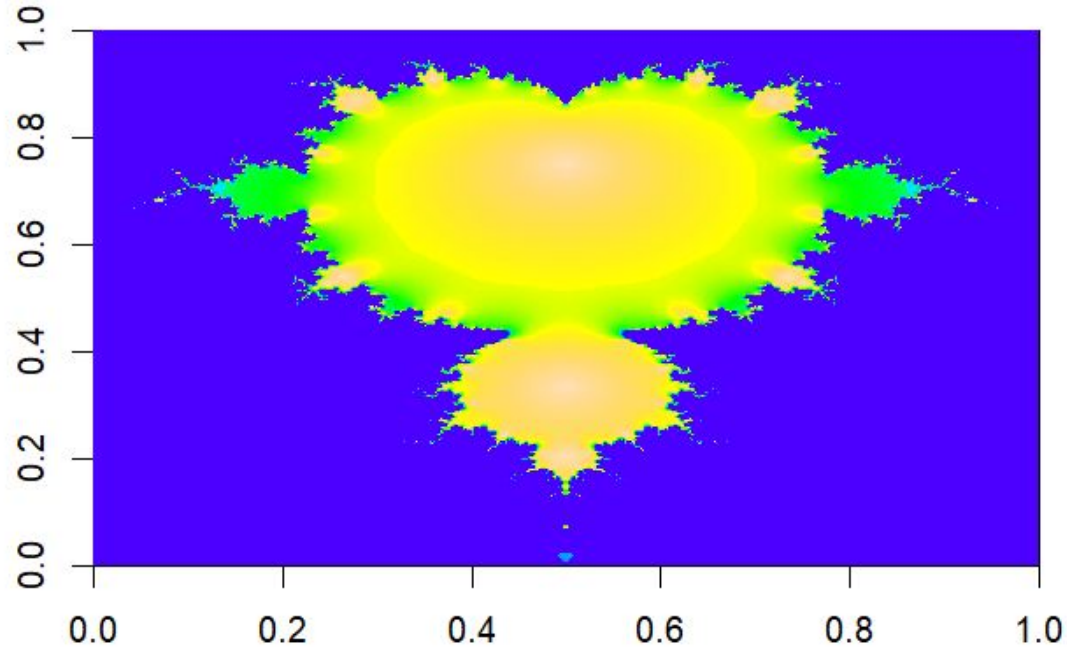
3c. Changing iter to 1000

I observed that the fractal's edges have become smoother
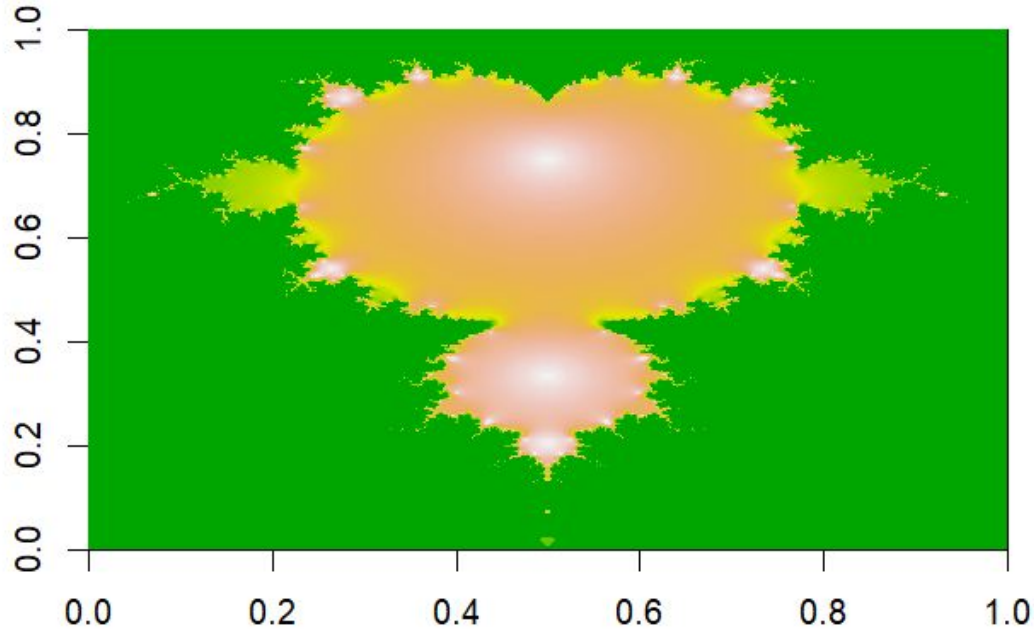
4 Changing heat.color(50)

I see the center become more yellow as the heat.color() decreases

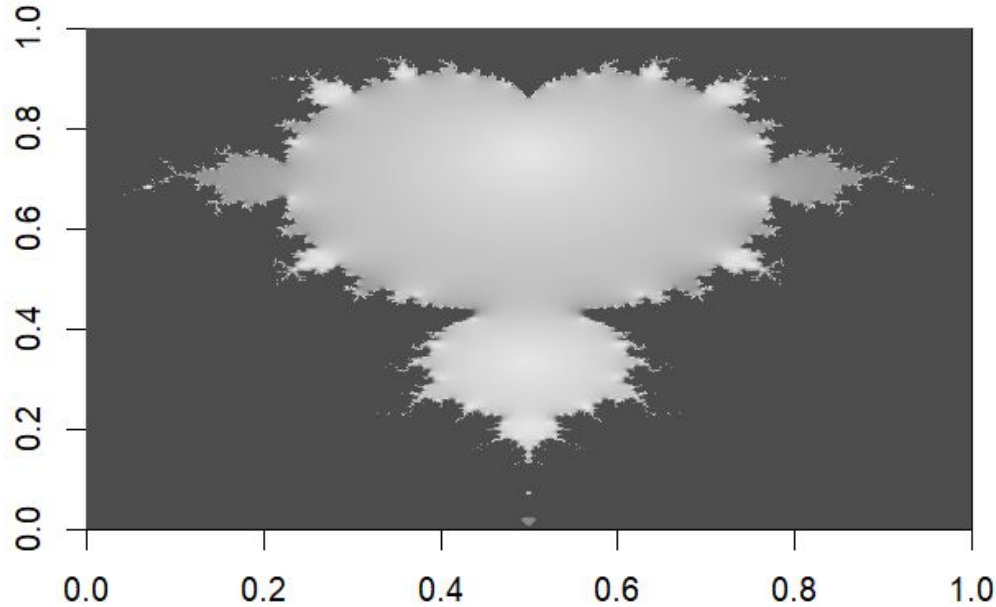# 5a. Changing to topo.colors(100)

I see the color theme has changed from Red-Yellow, to Blue-Lime

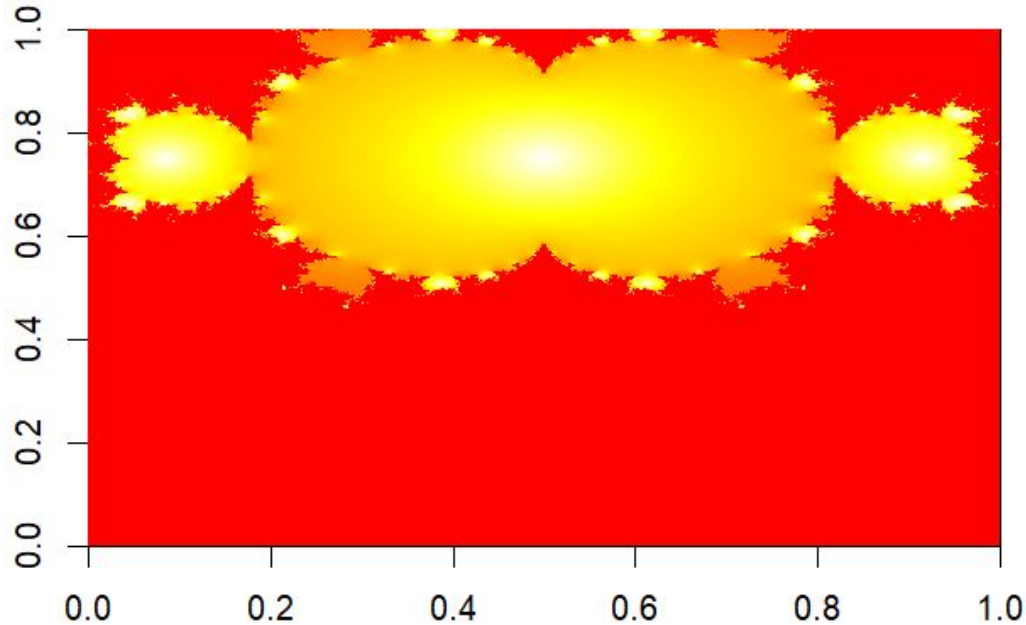# 5b. Changing to terrain.colors(100)

I see the color theme has changed from Red-Yellow, to Green-Pink
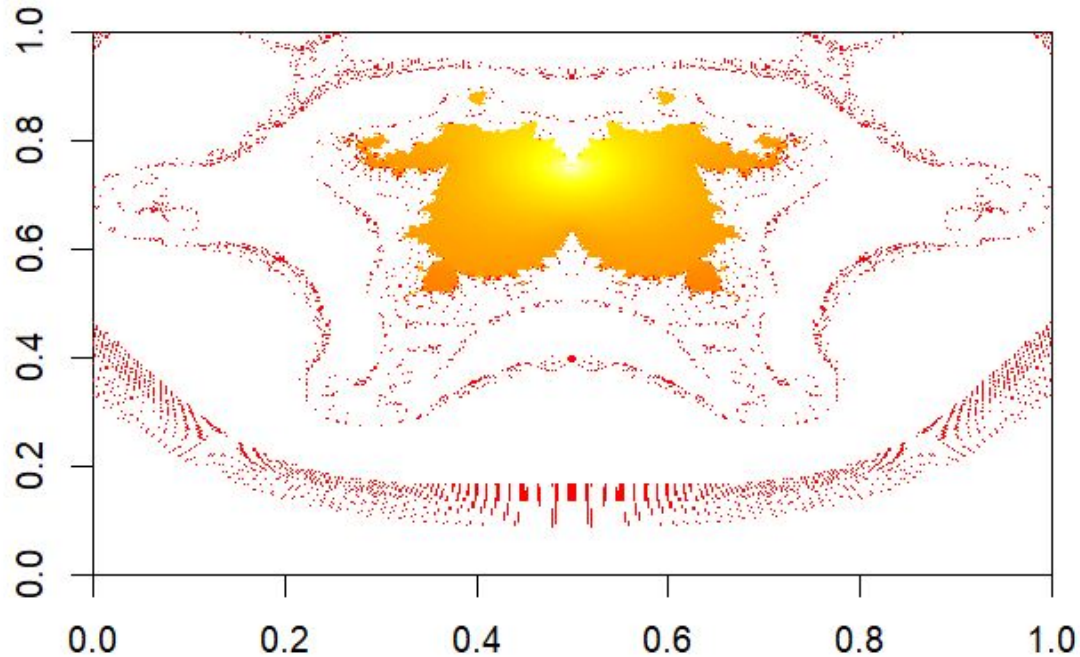
5c. Changing to gray.colors(100)

I see the color theme has changed from Red-Yellow, to Black and White

6. Changing to Z <- Z^3 + C

I observe that the fractal pattern has changed.

7. Independent change to Z <- Z^7+Z^6+Z^5+Z^4+Z^3+Z^2+Z+C

I observe that the fractal pattern has changed.