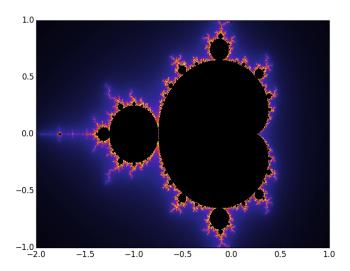
Lab 10: Improve the runtime of the code using Cython

Due date: Thursday April 16, 11:59pm



Take the code from the website (mandelbrot.py) and do the following:

- try to understand what is going on, use the Wikipedia entry about the Mandelbrot Set as a guide
- run the code, you can experiment with different colormaps (see the commented examples in create_jetcolorlist)
- improve the run time by putting some parts into Cython
- report speed up and time for your machine
- explore some regions like the 'seahorse' or others by zooming into the picture (recalculating using different parts of the map, for the full set the boundaries are set to -2, 1, -1, 1
- Send a PDF with pictures and speedup reports.

For fun look at this (http://preshing.com/20110926/high-resolution-mandelbrot-in-obfuscated-python/) on the next page. This is a working python code that generates the picture below, but we will use our code for this lab:-).

