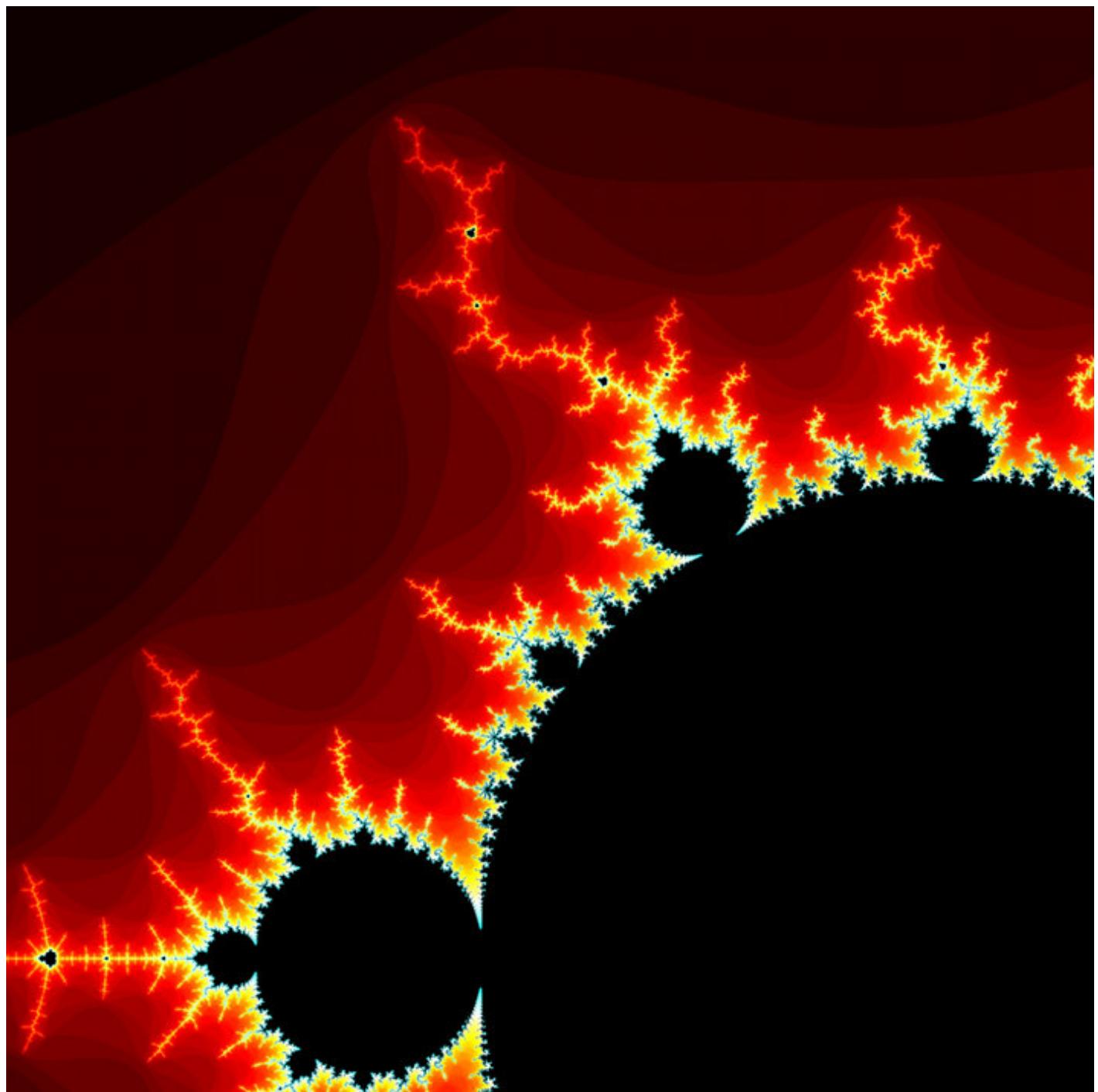


# Explore the Mandelbrot Set

This is a **pair** exercise and must be completed in your **tutorial** or **lab** with your partner.

The [Mandelbrot set](#), named after its inventor, [Benoit Mandelbrot](#) is astonishingly complex and detailed at all levels of abstraction.



Explore the Mandelbrot set by going to [almondbread.cse.unsw.edu.au](http://almondbread.cse.unsw.edu.au). Note any interesting sights you come across, and share the coordinates and your image in the comments below. You'll be working extensively with the Mandelbrot set over the next few weeks, so make sure you get properly acquainted.

The address for the tile centred on (-1.4, 0.0) at zoom level 10 is

<http://almondbread.cse.unsw.edu.au/mandelbrot/2/10/-1.4/0.0/tile.bmp>.

(which you can inspect directly by copy-pasting the URL into your browser's address bar).

## Submitting

Your submission for this task is to post one or more almondbread tiles in PNG format in the Mandelbrot Set which you discover, which you find beautiful, unexpected, or otherwise interesting.

In the comment text box give the co-ordinates and zoom level for the tile(s) you submit. Also blog about the best things you have found and try to make your blog post attractive.

To get the tile, change the **x** and **y** co-ordinates and the **z** (for zoom) level in the URL and paste it into your browser's address bar. This will show you one tile from almondbread, which you can save.

The URL will be of the format:

**http://almondbread.cse.unsw.edu.au/mandelbrot/2/ z / x / y /tile.bmp**; for example,  
<http://almondbread.cse.unsw.edu.au/mandelbrot/2/10/-1.4/0.0/tile.bmp>

Check out your classmates' images in the comments below and marvel at this rich land first discovered by Mandelbrot.

To run Styl-o-matic:

```
$ 1511 stylomatic  
Looks good!
```

You'll get advice if you need to make changes to your code.

Submit your work with the *give* command, like so:

```
$ give cs1511 wk07_exploreMandelbrot
```

Or, if you are working from home, upload the relevant file(s) to the `wk07_exploreMandelbrot` activity on [Give Online](#).