

# Mandelbrot Examples

james.campbell@crick.ac.uk

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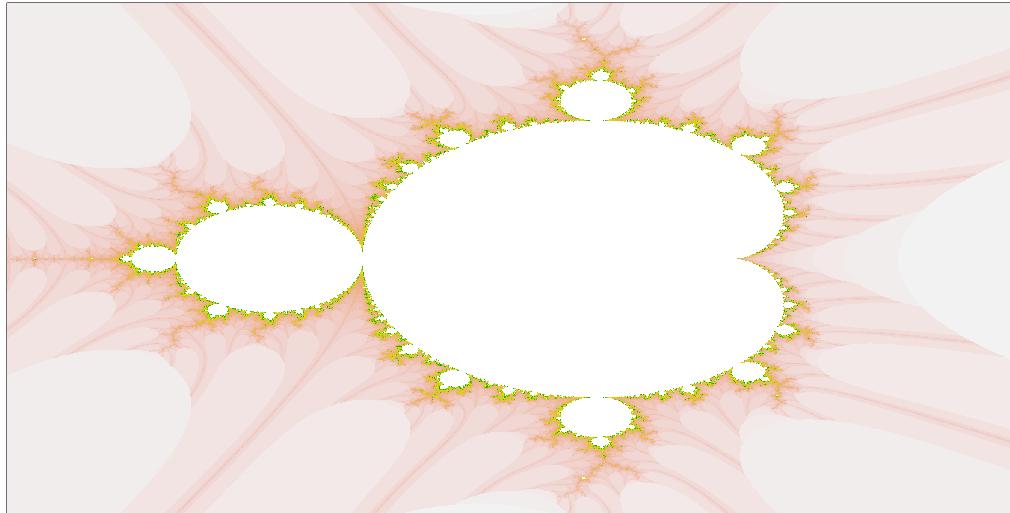
## Overview

### Estimate complex numbers in the Mandelbrot Set

```
mandelbrot = calculate_mandelbrot_set()
```

## Visualise

```
image(  
  t(mandelbrot[nrow(mandelbrot):1,]),  
  col = rev(terrain.colors(512)),  
  xaxt="n",  
  yaxt="n"  
)
```



## Estimate steady-states in the logistic map

```
lmap = calculate_logistic_map(itr = 40, ignore_itr = 30, r_inc = 0.0005)
```

## Plot the logistic map - with zooming

This won't work in a Rmarkdown document. Paste the code into the console.

```
plot_logistic_map(  
  lmap,  
  zoom_per_click=1.3  
)
```