

# MadJulia 0.02c – Manual

$$f(z) = z^2 + c$$

## Keyboard Shortcuts

← ↑ → ↓	Moves the fractal view by 1 pixel adjusting <b>x</b> , <b>y</b> offsets
ALT + ← ↑ → ↓	Adjusts <b>c</b> <sub>1</sub> and <b>c</b> <sub>2</sub> fractal parameters
HOME	Reset fractal view to center (sets <b>x</b> = <b>0</b> , <b>y</b> = <b>0</b> )
+	Increases the iteration count (adds more detail)
-	Decreases the iteration count (removes detail)
Page Up	Increases the hue shift (rotates color gradient in the range 0..359)
Page Dn	Decreases the hue shift
F2	Saves fractal parameters (date, time, zoom, x, y, c <sub>1</sub> , c <sub>2</sub> , hue, iterations) to a text file <b>saved.txt</b> and saves a screenshot to <b>screenshots</b>
F3	Toggles the screen overlay on and off
SPACE	Centers the fractal view on the screen based on the mouse position
ESC	Exits the application

## Mouse Shortcuts

<b>Left Mouse Button</b> and drag	Click and hold to drag the fractal image to desired position hold <b>SHIFT</b> while dragging to snap to 8 fixed angles (multiples of 45°)
<b>Mouse Wheel</b>	Roll the wheel to zoom in or zoom out of the fractal view

Reference:

[https://en.wikipedia.org/wiki/Julia\\_set](https://en.wikipedia.org/wiki/Julia_set)