

$x_1 := -1.5$ $x_2 := 1.5$ $y_1 := -2$ $y_2 := 1.0$

$width := 250$ $height := 250$ $iterations := 25$

$i := 0 .. width$ $j := 0 .. height$

$$C_{i,j} := \left(x_1 + \frac{j \cdot (x_2 - x_1)}{height} \right) \cdot \sqrt{-1} + \left(y_1 + \frac{i \cdot (y_2 - y_1)}{width} \right)$$

```
Zi,j := || Zi,j ← 0  
|| counter ← 0  
|| while counter < iterations  
|| || Zi,j ← (Zi,j)2 + Ci,j  
|| || counter ← counter + 1  
|| || while |Zi,j| > 2  
|| || || break  
|| || if (counter < iterations; counter ·  $\frac{width}{iterations}$ ; 0)  
|| || || 0
```