```
mand[c_Complex, max_Integer: 100] :=
 Module[ {z = c}, Do[If[Abs[z] > 4, Return[i]]; z = z^2 + c, {i, max}]]
```

```
bn = Table[
    Table[
     mand[x + y I],
     {x, -1.3, 0.8, 0.005}
    ],
    {y, -1, 1, 0.005}
  ];
```

```
Manipulate[ArrayPlot[bn, ColorFunction -> (Hue[Mod[# + a, 1]] &),
  ColorFunctionScaling -> True], {a, 1, 20}]
```

a

```
ArrayPlot[bn, ColorFunction → (Hue[Mod[#1 + FE`a$$1, 1]] &),
 ColorFunctionScaling → True]
```