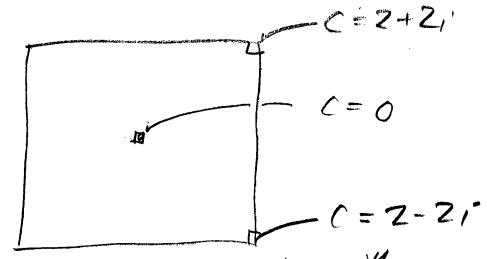
Julia sets: fix the number c Nou 27 notes 2+21 -2-2i Cach pixel has at its center a to value For each Zo, iterate Z1 = Z0 + C Zz = Z,2 +C Z3 = Z2+C N= max. number of Heates ZN = ZN-1+ C xi+iyi Byr Z; = X; + i y; dist to origin × 1's 1/x;2+4;21 IF dist to origin, Nxi2+4,2 is greater than 2, then dist = xi2+ yi2 is greater Than 4.

If no Zi is forther than 2 from the origin, Zo belongs to the Julia set.



For each C, start with $z_0=0$ and iterate $z_1=z_0^2+C$, $z_2=z_1^2+C$, ...

iterate $z_1=z_0^2+C$, $z_2=z_1^2+C$, ...

Mandelbrot set is the origin. Iterates to the origin. Itemain closer than 2 to the origin. Itemain closer than 2 to the origin. The Mandelbrot set also is those the Mandelbrot set also is those or values for which the Julia c values for which the Julia set is connected: