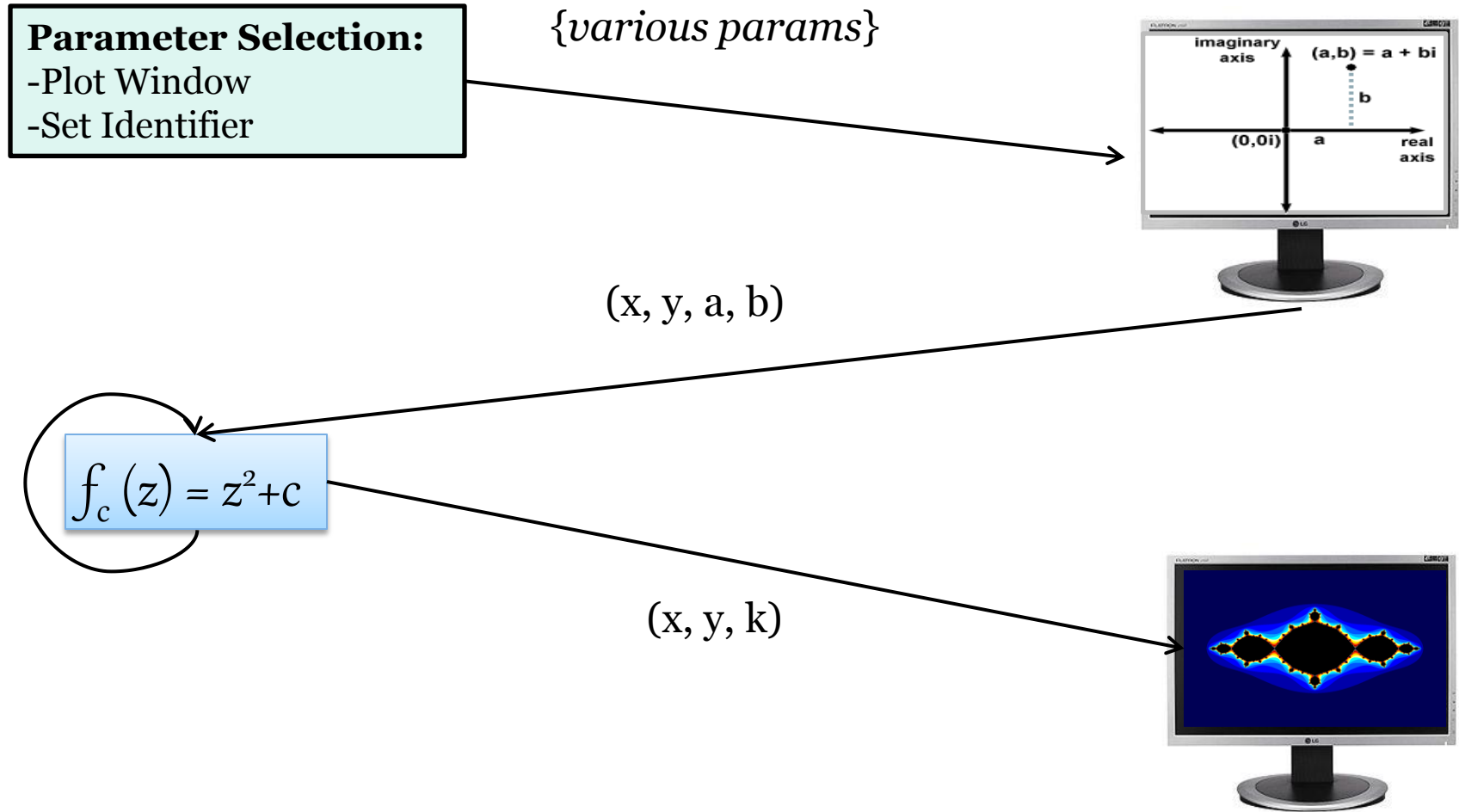


Interactive Fractal Viewer

Nathan Hwang
Richard Nwaobasi
Luis Peña
Stephen Pratt

Generation Process

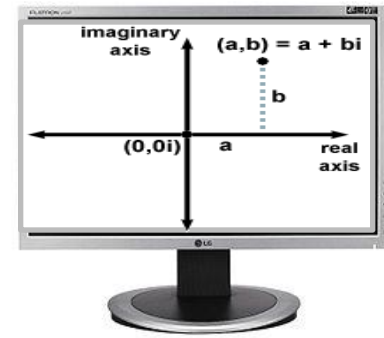


Generation Process

Parameter Selection:

- Plot Window
- Set Identifier

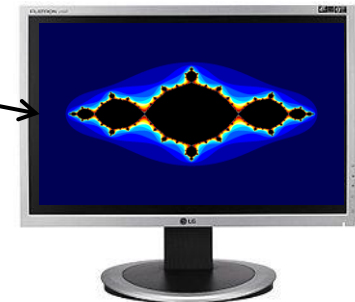
{various params}



(x, y, a, b)

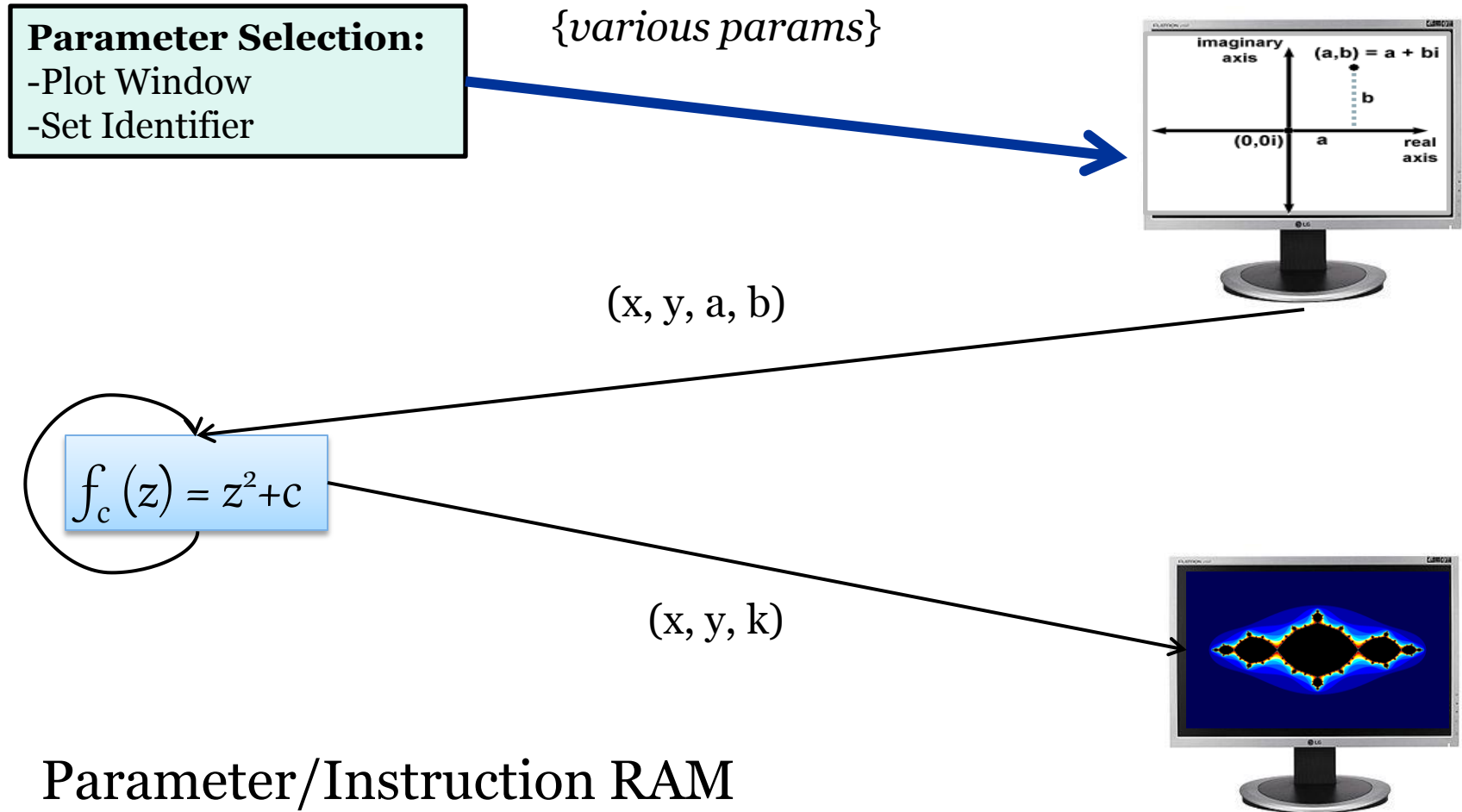
$$f_c(z) = z^2 + c$$

(x, y, k)



UI Module

Generation Process



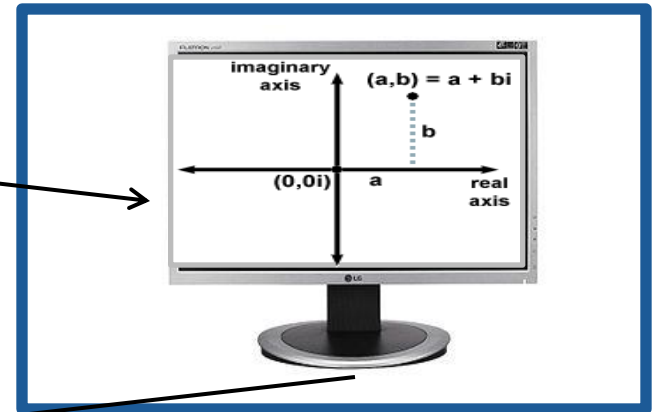
Parameter/Instruction RAM

Generation Process

Parameter Selection:

- Plot Window
- Set Identifier

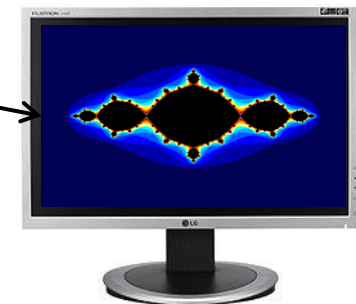
{various params}



(x, y, a, b)

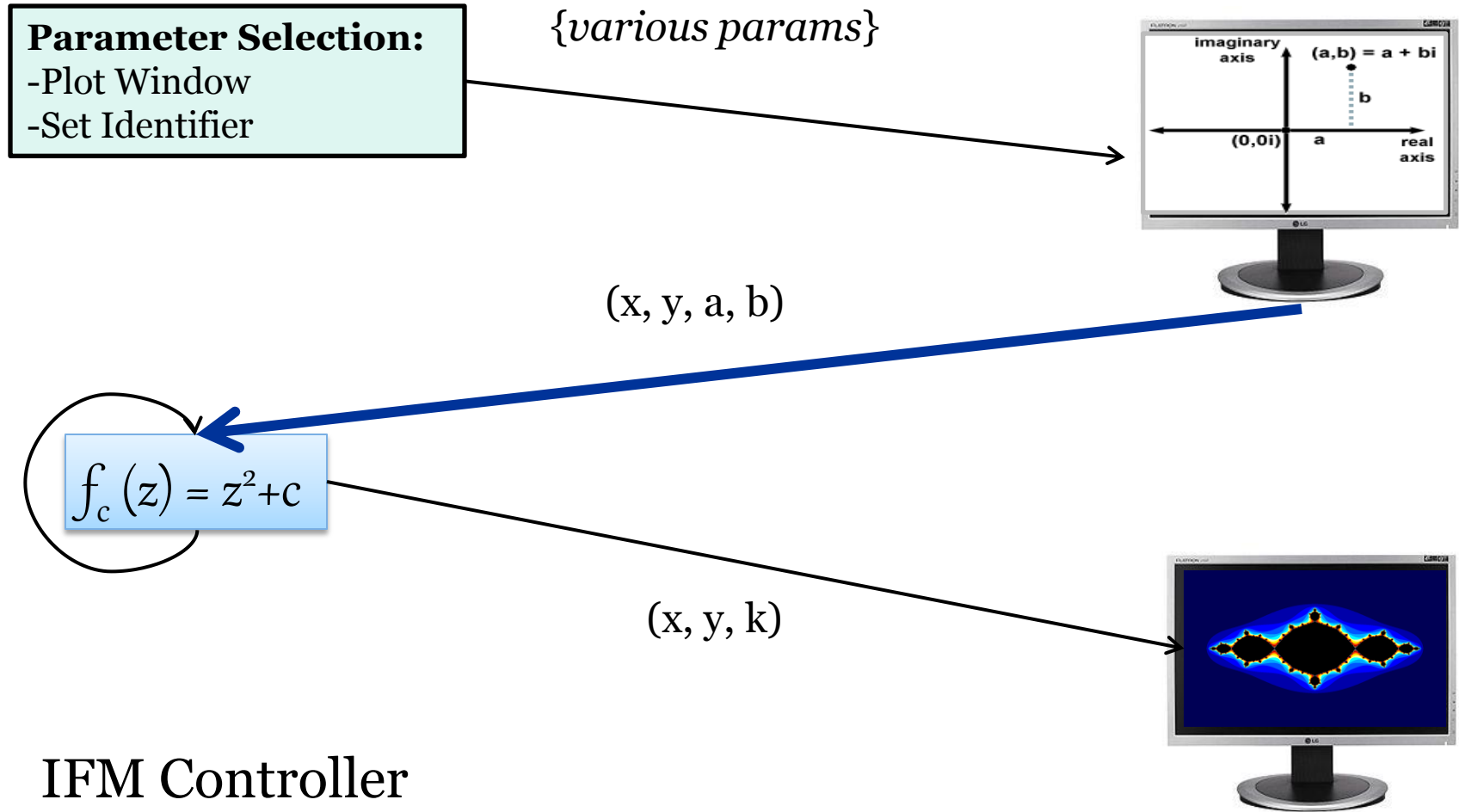
$$f_c(z) = z^2 + c$$

(x, y, k)



Window Generator

Generation Process

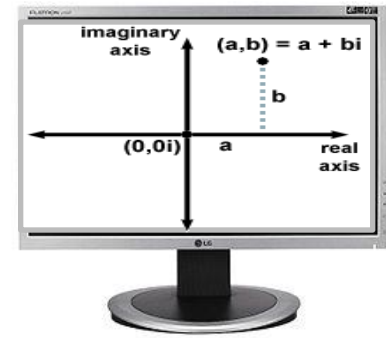


Generation Process

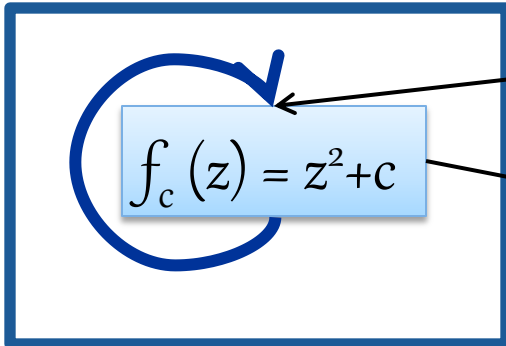
Parameter Selection:

- Plot Window
- Set Identifier

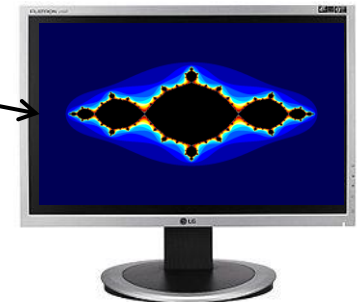
{various params}



(x, y, a, b)



(x, y, k)



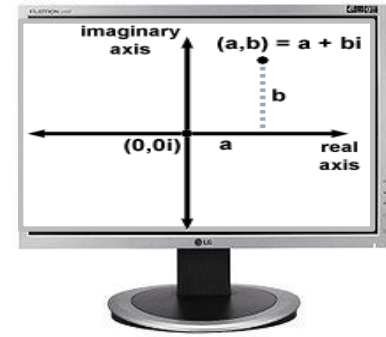
IFM

Generation Process

Parameter Selection:

- Plot Window
- Set Identifier

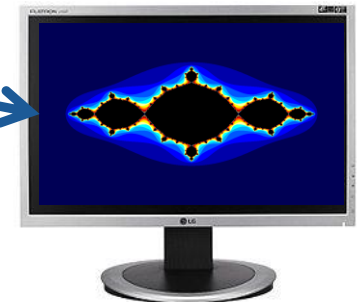
{various params}



(x, y, a, b)

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

(x, y, k)



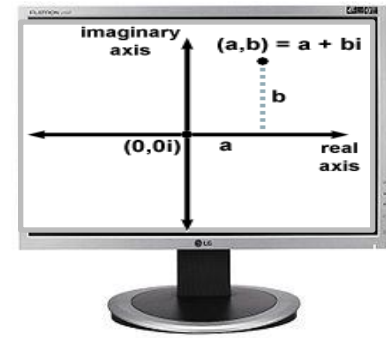
Coordinate-Breakaway Lookup Table

Generation Process

Parameter Selection:

- Plot Window
- Set Identifier

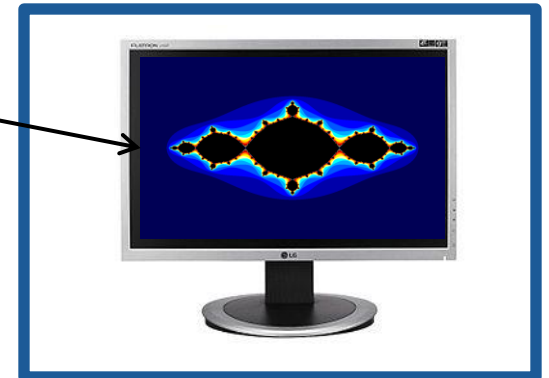
{various params}



(x, y, a, b)

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

(x, y, k)



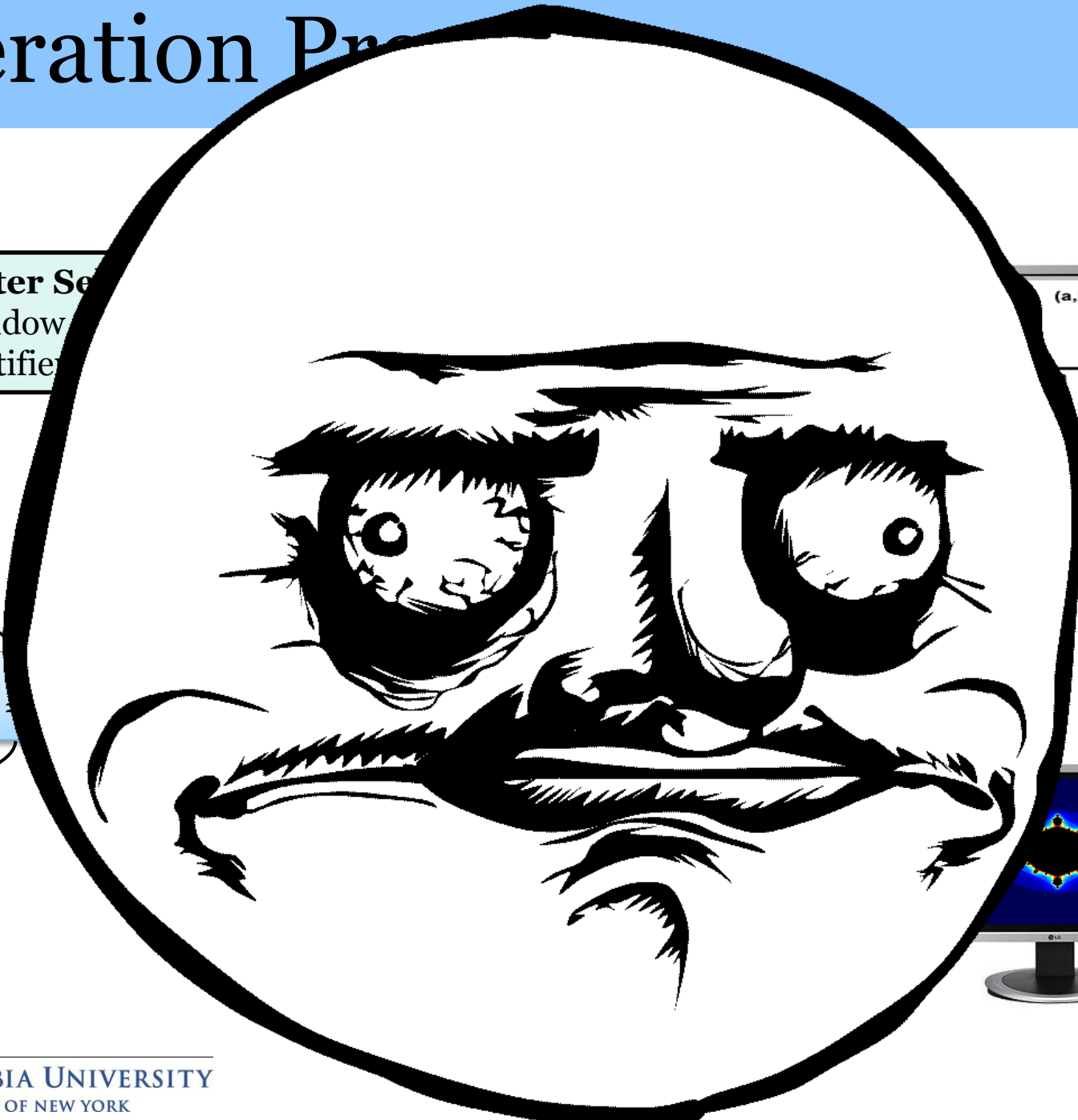
Colorization / VGA

Generation Pro

Parameter Set

- Plot Window
- Set Identifier

$$f_c(z)$$



$$(a,b) = a + bi$$

