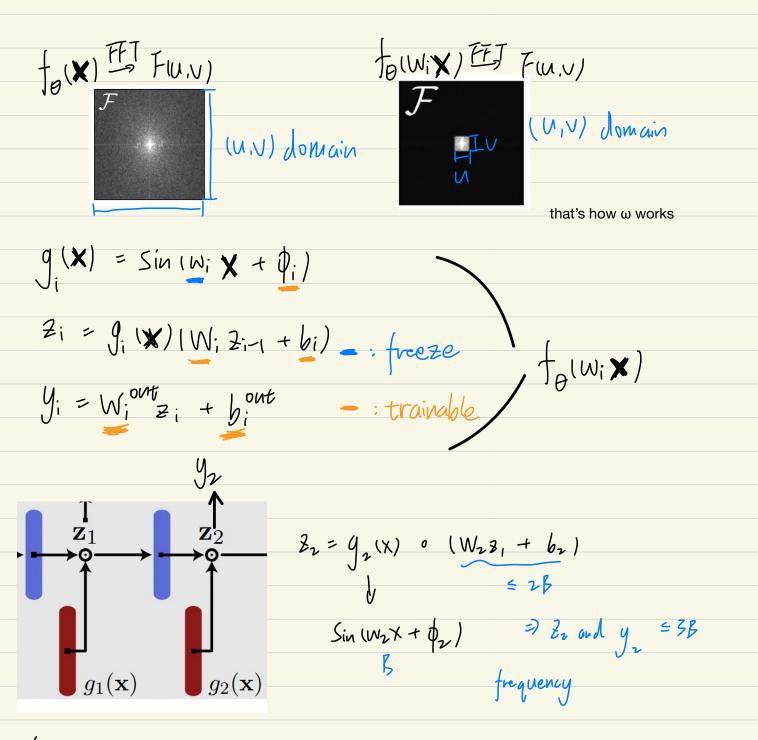


Guess_1: the output dimension should be 1, which represents the value of frequency magnitude because "the network is characterized entirely by its Fourier specturm". We should train in the Fourier frequency domain, and visualize the performance in image domain by inverse Fourier transform.

Wix limit the possible coordinate in frequency domain (u, v) will not appear out of expected frequency domain



 $\frac{1}{2}$ (X) = the value of signal (maybe grayscale or RGB, need to be checked)

where x is input coordinate