

09/19 4142

Why would I use DoG instead of LoG

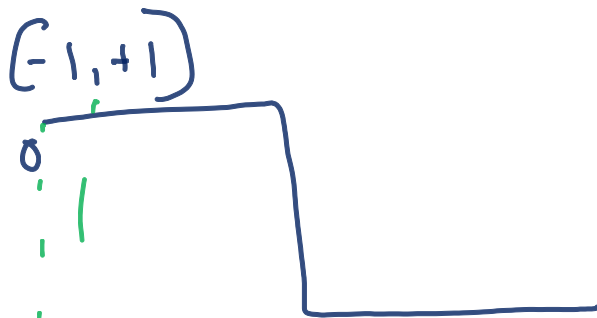
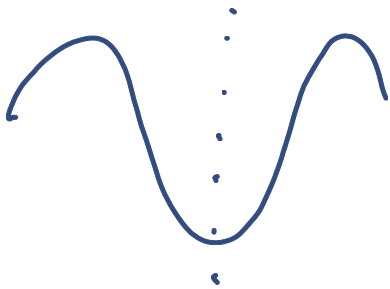
→ DoG is Difference of Gaussian (1<sup>st</sup> Derivative)

LoG is Laplacian of Gaussian (2<sup>nd</sup> Derivative)

$$G_{\sigma_1} \otimes I, G_{\sigma_2} \otimes I, \sigma_2 - \sigma_1$$

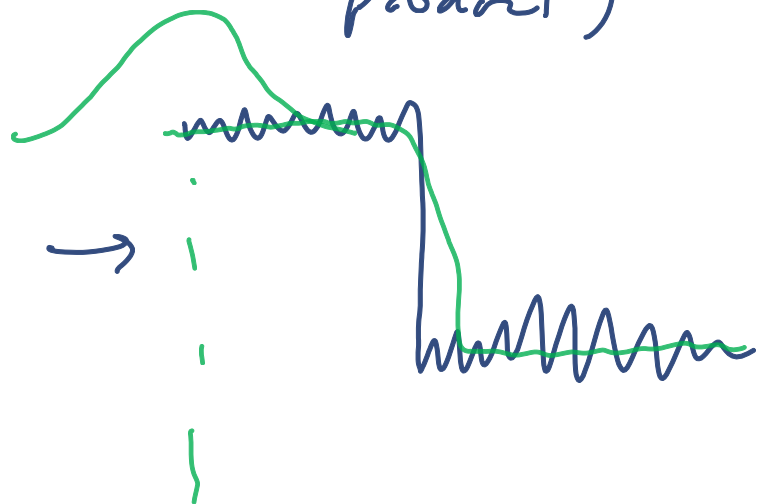
Convolution

(Range Map by a  
kernel element-wise  
product)



theory

HOPE



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