SIFT adds the scale invariant property to cornerHarris (as a corner might change when the image is scaled)

It consists of 4 steps:

1. Scale-space extrema detection Uses a Laplacian of Gaussian as a blob and edge detector (<https://automaticaddison.com/how-the-laplacian-of-gaussian-filter-works/#:~:text=Laplacian%20of%20Gaussian%20is%20a,locate%20boundaries%2C%20and%20extract%20features>.)

We introduce the sigma, which is the scaling parameter

Therefore, we can find the local maxima across the scale and space as a list (x,y,sigma) (there will be a maxima at (x,y) with sigma scaling) Will use a Difference of Gaussians between octaves for cost effectiveness (subtracting gaussian blurred differently scaled images)