

## Homework 1

General Information  
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Experiment 1: Symmetric vs. Asymmetric SE on f3

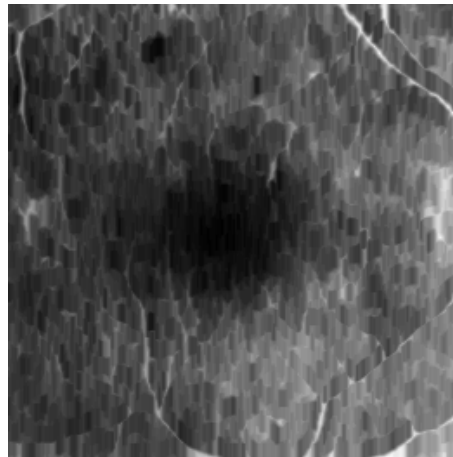


Figure 1: Erosion with Symmetric SE

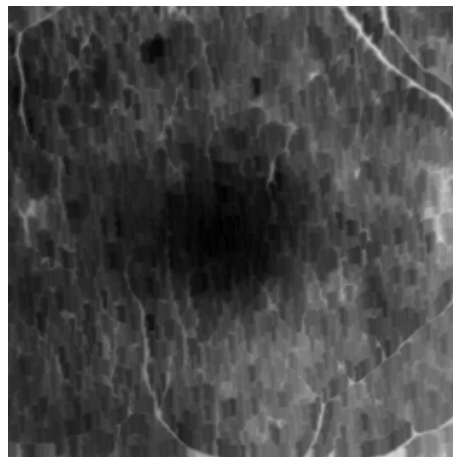


Figure 2: Erosion with Asymmetric SE

The symmetric structuring element that we chose for eroding the image f3 was a backward diagonal of size 9 (SE5.txt). Figure 1 depicts this result.

The asymmetric structuring element that we chose for the same operation was a 9x10 that closely resembles a backward diagonal (SE7.txt).

As expected when using an asymmetric SE, the chosen border handling method does introduce an artifact to the image. If you were to observe and compare Figure 1 and 2 closely you can see that the bottom border of Figure 2 contains a row of white space. This is easier to see when viewing the image with a black background.