SAMPLE FILTRATION IMAGES AND BARCODES:

1. Height: (1,0)

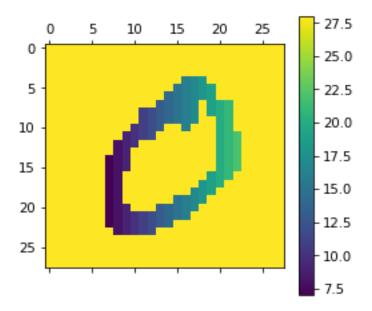
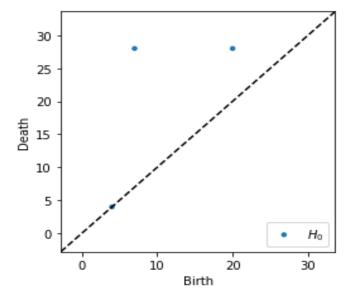
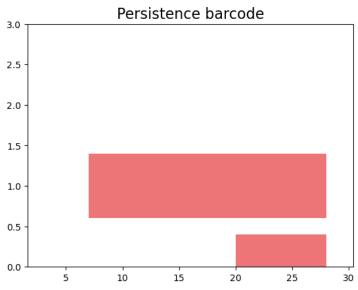


Diagram and barcode plots using persim and gudhi show points of all dimensions as dimension 0

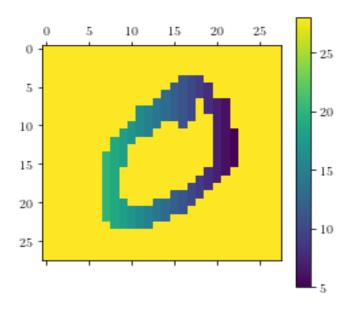




[4., 4., 0.]

[20., 28., 1.]

2. Height (-1,0)

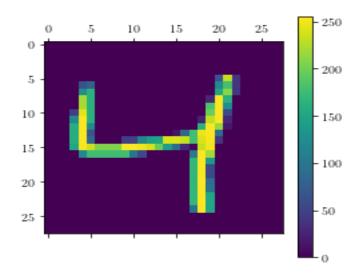


[[5., 28., 0.],

[4., 4., 0.],

[19., 28., 1.]]

3. Grayscale



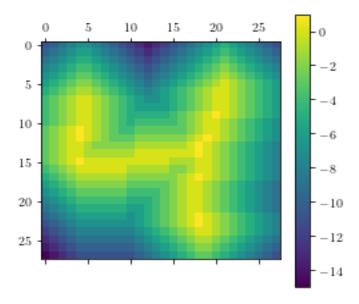
[[0., 255., 0.],

[0., 0., 0.],

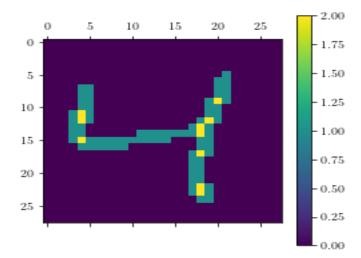
[0., 0., 0.],

[0., 255., 1.],

4. Dilation

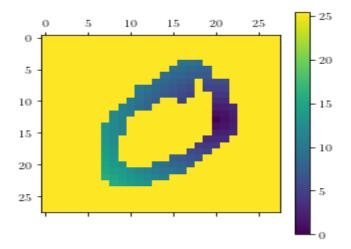


5. Erosion



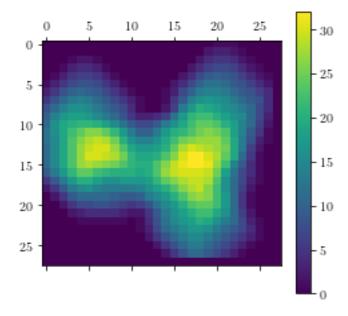
- [[0., 3., 0.],
- [0., 0., 0.],
- [0., 2., 1.],
- [1., 2., 1.],
- [1., 2., 1.],
- [1., 2., 1.],
- [1., 2., 1.],
- [1., 2., 1.],
- [1., 2., 1.],
- [0., 0., 1.],
- [0., 0., 1.],
- [0., 0., 1.],
- [0., 0., 1.],
- [0., 0., 1.],
- [0., 0., 1.],
- [0., 0., 1.]

6. Radial (13,13)



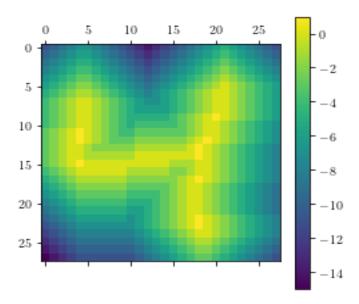
- [[2.23606798, 20.79898987, 0.],
- [6.32455532, 8.54400375, 0.],
- [6.40312424, 6.70820393, 0.],
- [7. , 7.28010989, 0.
- [7.81024968, 8.06225775, 0.],
- [4.24264069, 4.47213595, 0.],
- [7., 7.07106781, 0.]
- [8.60232527, 20.79898987, 1.]])

7. Density: 6

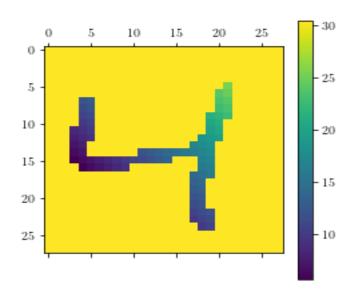


- [0., 48., 0.],
- [0., 9., 0.],
- [0., 2., 0.],
- [0., 1., 0.],

8. Signed Distance

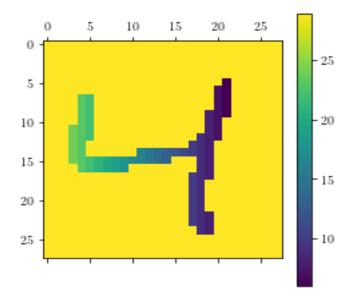


9. Line 1:: x - y = 20



- [5.65685425, 31.87005769, 0.],
- [9.89949494, 16.26345597, 0.],
- [0.,0.,0.],
- [22.627417 , 22.627417 , 1.]])

10. Line: 2 y = 27



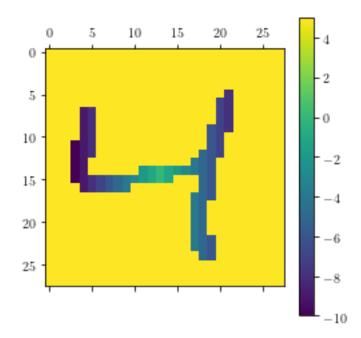
[[6., 29., 0.],

[8., 9., 0.],

[22., 23., 0.],

[19., 19., 1.]])

11. Line: 3; y =13 and negative of distance



[[-10., 5., 0.],

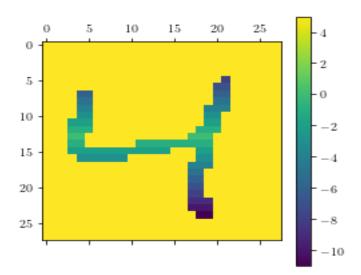
[-8., 0., 0.],

[-6., -5., 0.],

[-10., -10., 0.],

[0., 0., 1.]])

12. Line 4: x =13 and negative of distance



[[-11., 5., 0.],

[-8., 0., 0.],

[-6., 0., 0.],

[-3., -1., 0.],

[0., 0., 1.]])

13. Conjugate Grayscale

