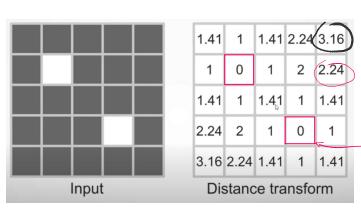
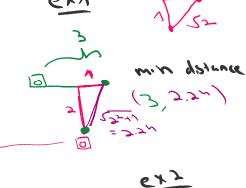
Nissan Monday, 29 March 2021 11:45

Distance transform
distance transform edt video

```
out_seg, map_lambda1, map_lambda2 = architectures.ddunet(x_is_training)
y_out_dl = tf.round(out_seg)
x_acm = x[:, :, :, 0]
rounded_seg_acl = y_out_dl[:, :, :, 0]
dt_trans = tf.py_func(my_func, [rounded_seg_acl], tf.float32)
dt_trans.set_shape([args.batch_size, input_image_size, input_image_size])
phi_out_, lambda1_tr, lambda2_tr = tf.map_fn(fn=active_contour_layer,
elems=(x_acm, dt_trans, map_lambda1[:, :, :, 0],
map_lambda2[:, :, :, 0]))
```

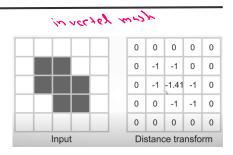




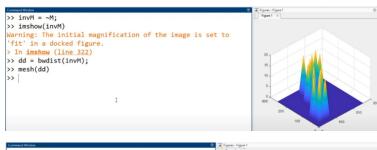
## Another example

	1.41	-		1.41	
	1	0	0	1	1.41
	1	0	0	0	1
	1.41	1	0	0	1
	2.24	1.41	1	1	1.41
Input	Distance transform				

83	def my_func(mask):
84	epsilon = 0
84 85 86	<pre>def bwdist(im): return distance_transform_edt(np.logical_not(im))</pre>
86	bw = mask
87	signed_dist = bwdist(bw) - bwdist(1 - bw)
88	d = signed_dist.astype(np.float32)
89	d += epsilon
90	<pre>while np.count_nonzero(d &lt; 0) &lt; 5:</pre>
89 90 91 92	d -= 1
92	
93	return <u>d</u>





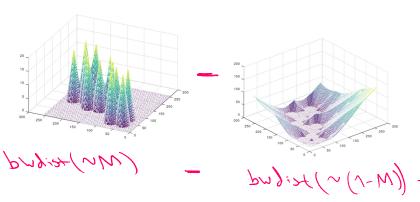


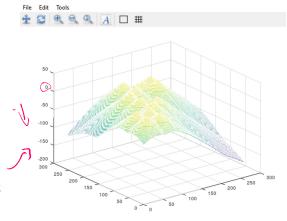
Leading

```
>> invM = ~M;
>> invM = ~M;
>> inshow(invM)
Warning: The initial magnification of the image is s'fit' in a docked figure.
> In imshow (line 322)
>> de = bwdist(invM);
>> mesh(dd)
>> dd = -dd;
>> mesh(dd)
>>
```

## mask







C Figure 1