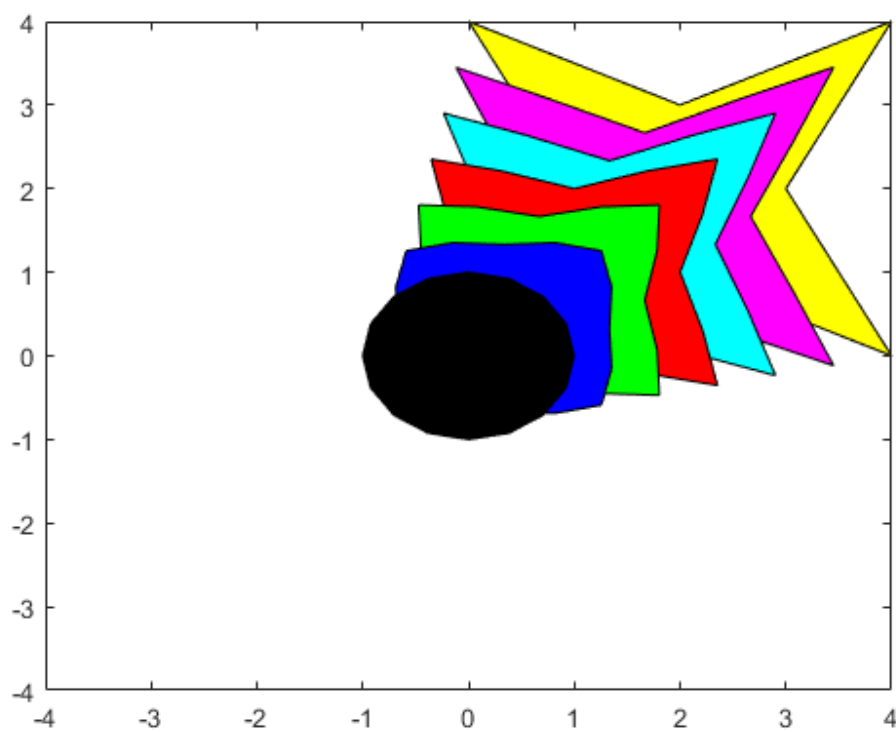


1.



2.

morphMe.m below

```
% This script will morph a star into an octagon.
%(add more points to make it look more like a circle).
%points arranged to easily show shape
```

```
p9B=[0;4]; p0B=[4;4];
p9C=[1;3.5]; p0A=[3;3.5];
p9A=[.5;3]; p0=[2;3]; p0C=[3.5;3];

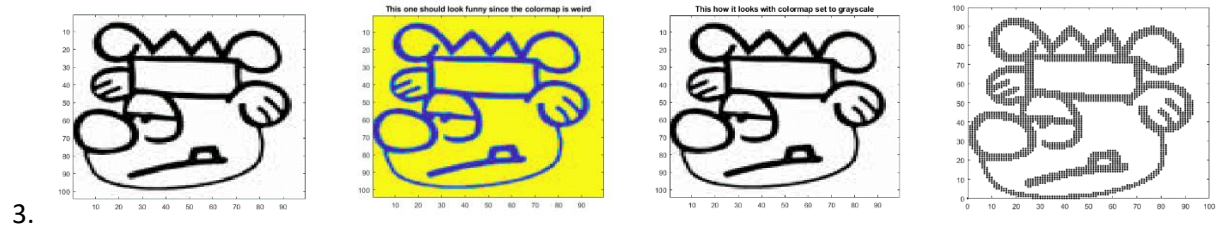
p9=[1;2]; p3=[3;2];

p6C=[.5;1]; p6=[2;1]; p3A=[3.5;1];
p6A=[1;.5]; p3C=[3;.5];
p6B=[0;0]; p3B=[4;0];

star2dMatrix = [p0,p0A,p0B,p0C,p3,p3A,p3B,p3C,p6,p6A,p6B,p6C,p9,p9A,p9B,p9C];
fill(star2dMatrix(1,:),star2dMatrix(2,:), 'r')
axis([-4 4 -4 4])
hold on;
%now define the "after", a circle-ish shape

a0=[0;1];
a9C=[-.383;.924]; a0A=[.383;.924];
a9B=[-1/sqrt(2);1/sqrt(2)]; a0B=[1/sqrt(2);1/sqrt(2)];
a9A=[-.924;.383]; a0C=[.924;.383];
a9=[-1;0]; a3=[1;0];
a6C=[-.924;-.383]; a3A=[.924;-.383];
a6B=[-1/sqrt(2);-1/sqrt(2)]; a3B=[1/sqrt(2);-1/sqrt(2)];
a6A=[-.383;-.924]; a3C=[.383;-.924];
a6=[0;-1];

A=[a0,a0A,a0B,a0C,a3,a3A,a3B,a3C,a6,a6A,a6B,a6C,a9,a9A,a9B,a9C];
color = str2mat('y','m','c','r','g','b','k');
for k=0:1/6:1
    C = (1-k)*star2dMatrix + k*A;
    fill(C(1,:),C(2,:),color(k*6+1))
    pause(0.2);
end
hold off
```



4. Intermediate snapshots of the animation below

