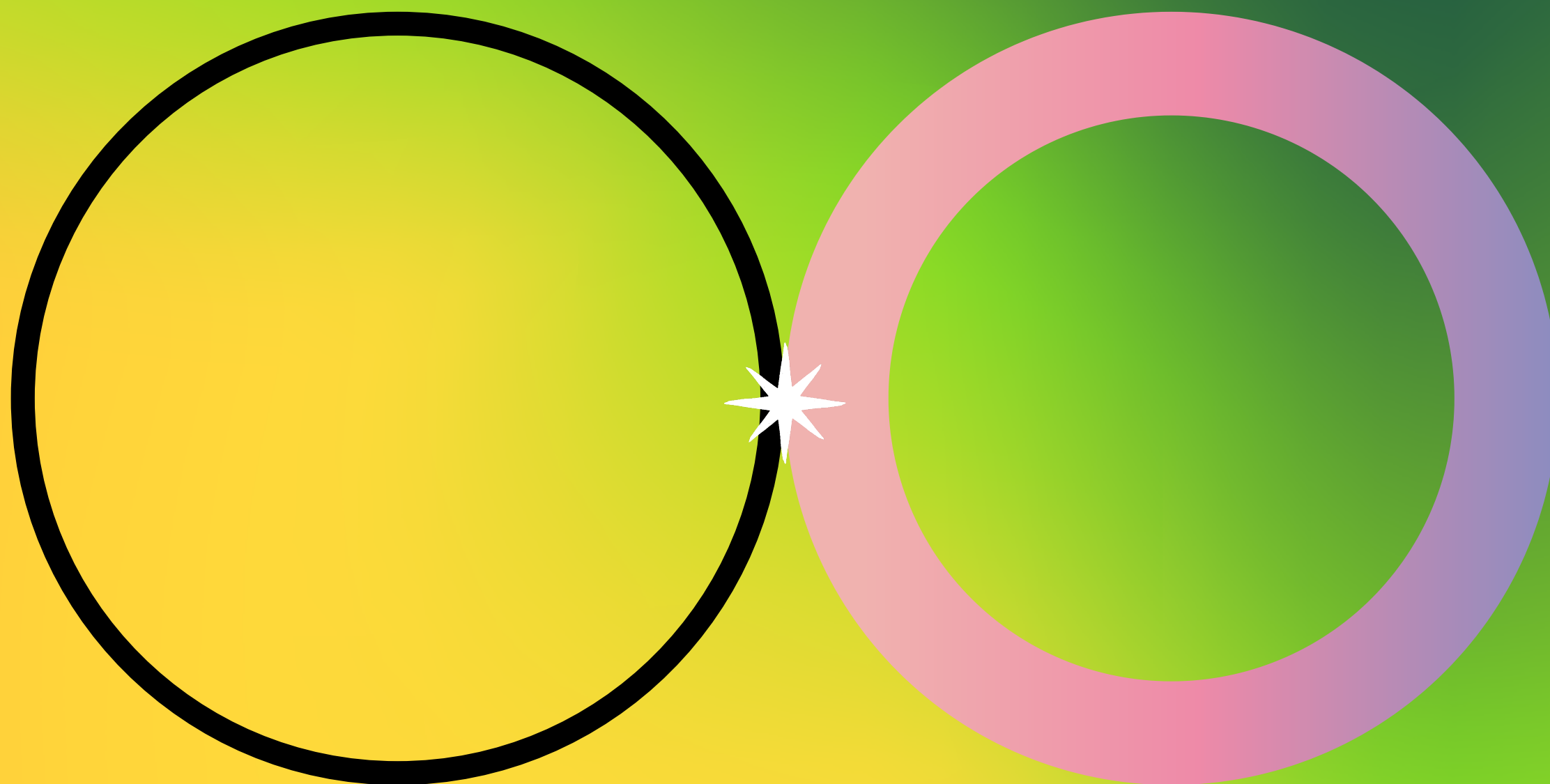


*Let's consider
a circle*

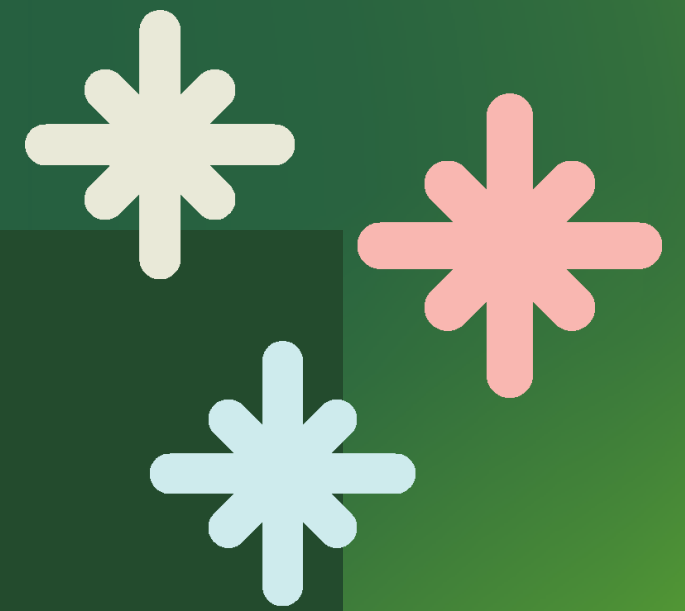


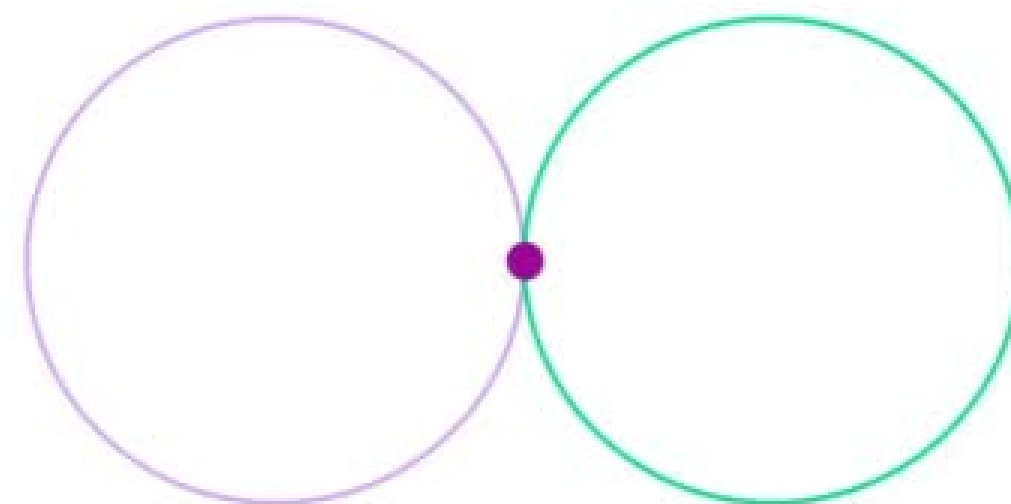
*Now another
circle of same
radius with a
common point*





*Follow the
common point on
the second circle*





*What you got is a
cardioid*



Equation of cardioid

$$x(\phi) = 2a(1 - \cos(\phi))\cos(\phi)$$

$$y(\phi) = 2a(1 - \cos(\phi))\sin(\phi)$$

$$0 \leq \phi < 2\pi$$

$$a = \text{Radius}$$





*Thank You
for
Watching*



Cardioid

