Lycée Des ArtsMathematicsName:"Relative Positions Of Two Circles " 9th-Grade. E.S-5.

Consider the two distinct circles C(O; R) & C'(O; R'), where R & R' are *positive non-zero* numbers.

NO.	Relative Position of the two circles		Graphical representation		Mathematical relation	
1.	Two Circles are <i>Disjoint:</i>	Internally If			OO' < R - R', where (R > R')	
		<i>Externally</i> If	R			OO' > R + R'.
2.	Two Circles are <i>Tangent</i> :	<i>Externally</i> If			OO' = R + R'.	
		Internally If			00'=	R – R'.where(R > R')
3.	Two Circles are <i>Intersecting</i> if				R - R' < OO' < R + R'.(R > R')	
Su	ımmary	If	Tangent Disjont none of the abo	Externally 00' = r + r' 00' > r + r' ove applies, then circ		Internally $00' = r - r'$ $00' < r - r'$ les are secant

Mathematics E.S-5. Relative Positions Of Two Circles