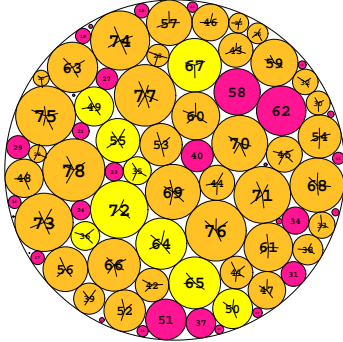


N = 78

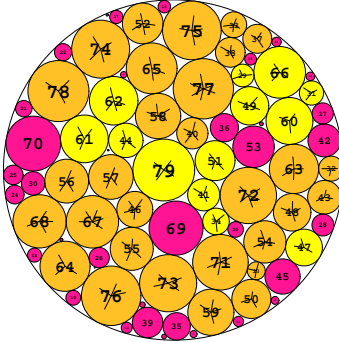
78 circles in a circle



radius = 0.182929348987 density = 0.886844890547  
 ratio = 426.394126651276 contacts = 94

N = 79

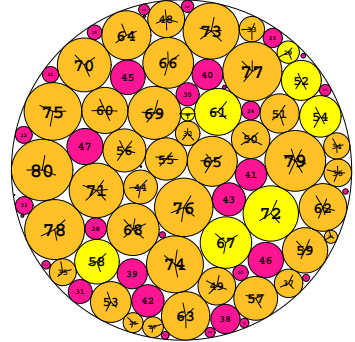
79 circles in a circle



radius = 0.181706101899 density = 0.886028706723  
 ratio = 434.768008196635 contacts = 86

N = 80

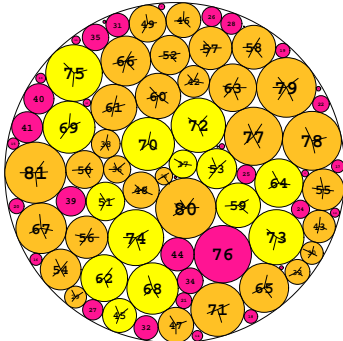
80 circles in a circle



radius = 0.180701463718 density = 0.887141709679  
 ratio = 442.719158738463 contacts = 90

N = 81

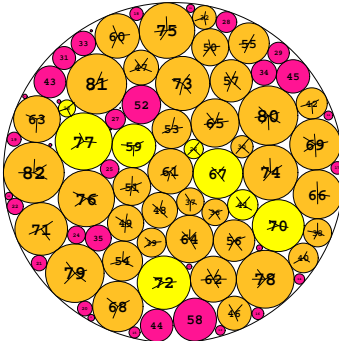
81 circles in a circle



radius = 0.179638289783 density = 0.887498640067  
 ratio = 450.39366416661 contacts = 90

N = 82

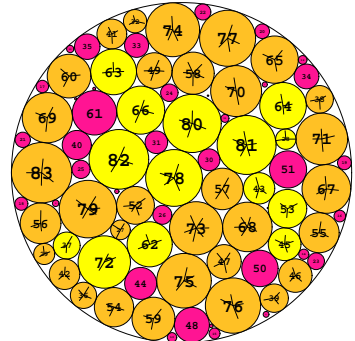
82 circles in a circle



radius = 0.178878786227 density = 0.886871909061  
 ratio = 459.390351667693 contacts = 92

N = 83

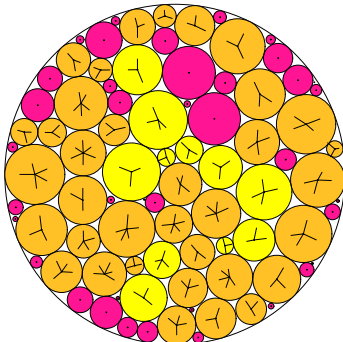
83 circles in a circle



radius = 0.177471742759 density = 0.887206760713  
 ratio = 467.680086473293 contacts = 92

N = 84

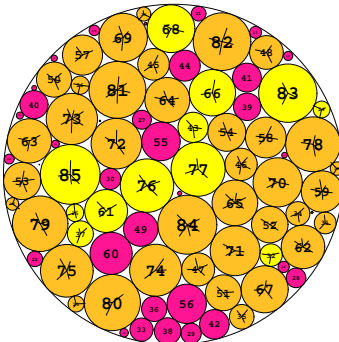
84 circles in a circle



radius = 0.17654386733 density = 0.888341738036  
 ratio = 475.80256712813 contacts = 92

N = 85

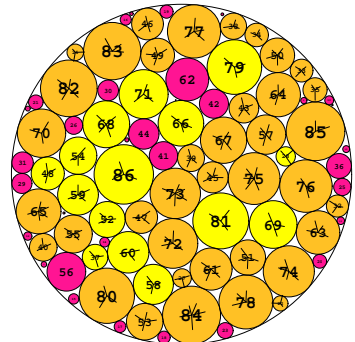
85 circles in a circle



radius = 0.175446697377 density = 0.887594863687  
 ratio = 484.477629223078 contacts = 100

N = 86

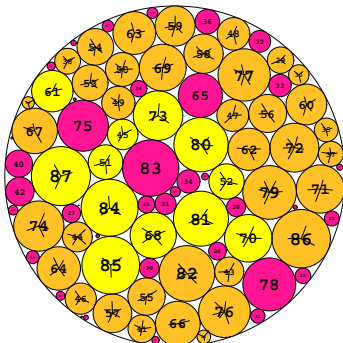
86 circles in a circle



radius = 0.174540925345 density = 0.888607966216  
 ratio = 492.721118730384 contacts = 106

N = 87

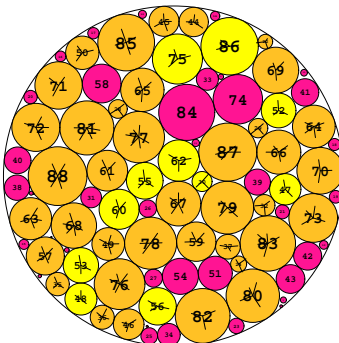
87 circles in a circle



radius = 0.173528390099 density = 0.88834290487  
 ratio = 501.35899595760 contacts = 98

N = 88

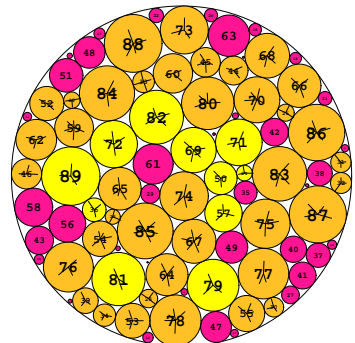
88 circles in a circle



radius = 0.172577066505 density = 0.888577916088  
 ratio = 509.517315769426 contacts = 98

N = 89

89 circles in a circle



radius = 0.171693075820 density = 0.889323657122  
 ratio = 518.368856525796 contacts = 100