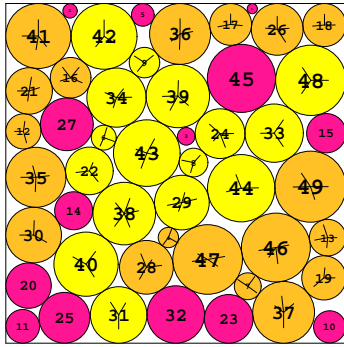


N = 49

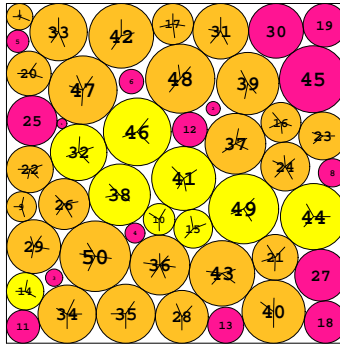
49 circles in a square



radius = 0.104539534180 density = 0.858323498653
 ratio = 66.960313673655 contacts = 71

N = 50

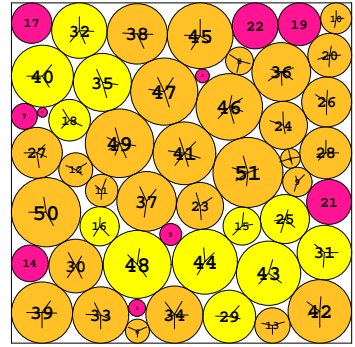
50 circles in a square



radius = 0.103757995182 density = 0.862448550303
 ratio = 68.149618730268 contacts = 69

N = 51

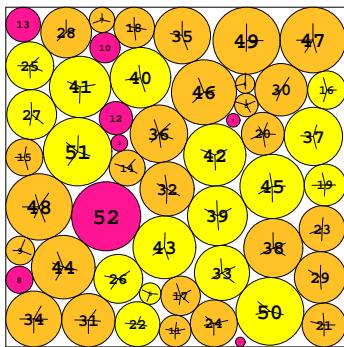
51 circles in a square



radius = 0.102794506646 density = 0.863103809954
 ratio = 69.472860579399 contacts = 83

N = 52

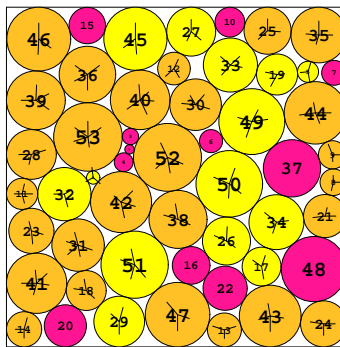
52 circles in a square



radius = 0.101600951810 density = 0.859391434250
 ratio = 70.974776696103 contacts = 89

N = 53

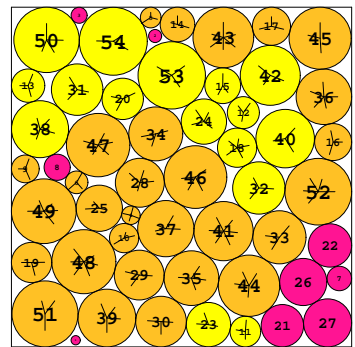
53 circles in a square



radius = 0.1007819161002 density = 0.861705784265
 ratio = 72.229606543267 contacts = 83

N = 54

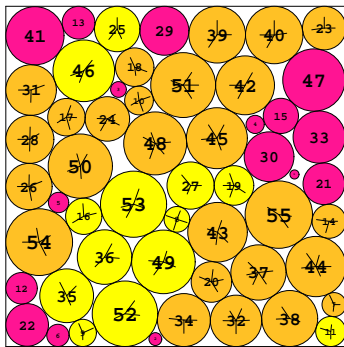
54 circles in a square



radius = 0.099505762834 density = 0.863139588971
 ratio = 73.518670529729 contacts = 91

N = 55

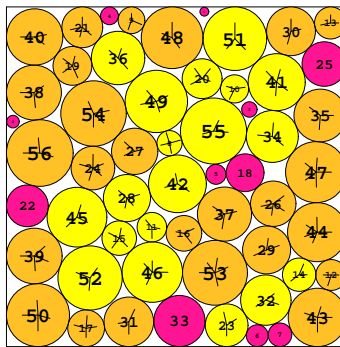
55 circles in a square



radius = 0.098897324165 density = 0.862094384372
 ratio = 74.913120629025 contacts = 79

N = 56

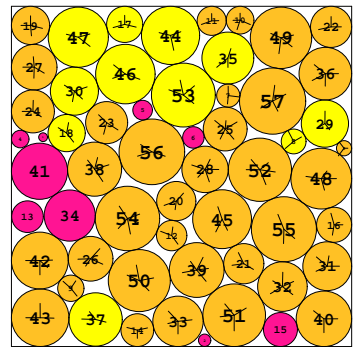
56 circles in a square



radius = 0.09803695494 density = 0.860547245705
 ratio = 76.331539291324 contacts = 91

N = 57

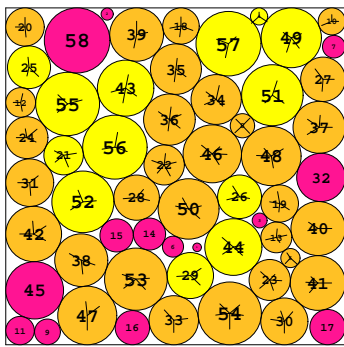
57 circles in a square



radius = 0.097312930688 density = 0.862757959497
 ratio = 77.583054810082 contacts = 97

N = 58

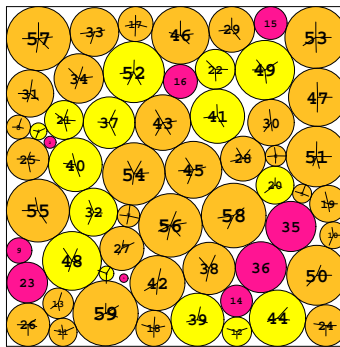
58 circles in a square



radius = 0.096848976330 density = 0.863921564216
 ratio = 78.879252047990 contacts = 89

N = 59

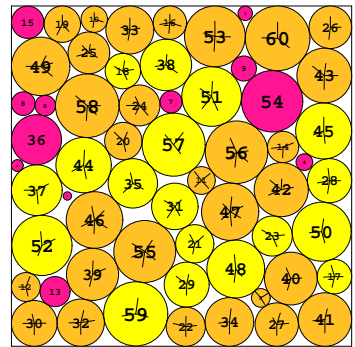
59 circles in a square



radius = 0.095759411202 density = 0.864239399886
 ratio = 80.213959247196 contacts = 101

N = 60

60 circles in a square



radius = 0.095037357823 density = 0.865442900483
 ratio = 81.50446072971 contacts = 97