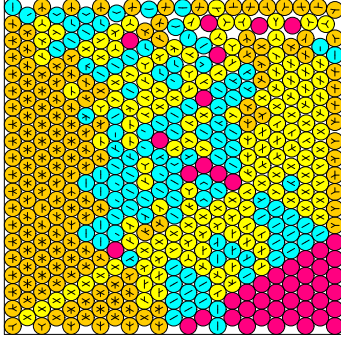


N = 445

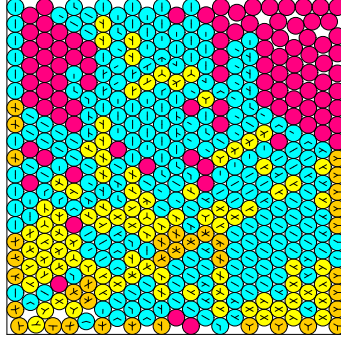
445 circles in a square



radius = 0.024960936662 density = 0.871027045707
 ratio = 40.062599133557 contacts = 741

N = 446

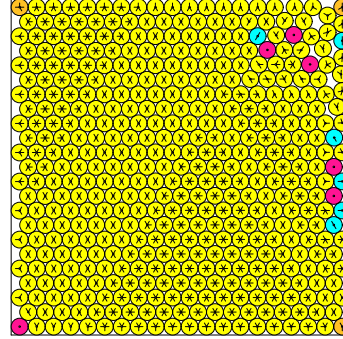
446 circles in a square



radius = 0.024958968179 density = 0.872846723718
 ratio = 40.065758861742 contacts = 458

N = 447

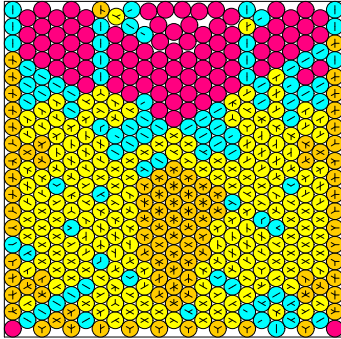
447 circles in a square



radius = 0.0249538884547 density = 0.874447456114
 ratio = 40.073921081105 contacts = 1046

N = 448

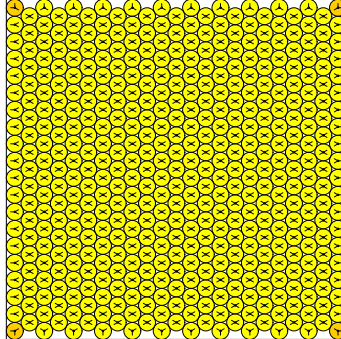
448 circles in a square



radius = 0.024952872272 density = 0.876332611787
 ratio = 40.075546778278 contacts = 623

N = 449

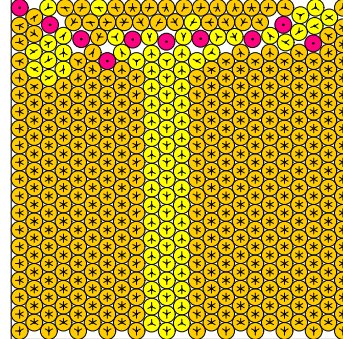
449 circles in a square



radius = 0.024950873874 density = 0.878148038281
 ratio = 40.078756561170 contacts = 900

N = 450

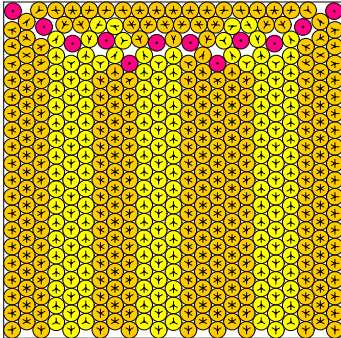
450 circles in a square



radius = 0.024795348186 density = 0.869166159357
 ratio = 40.330145496626 contacts = 1167

N = 451

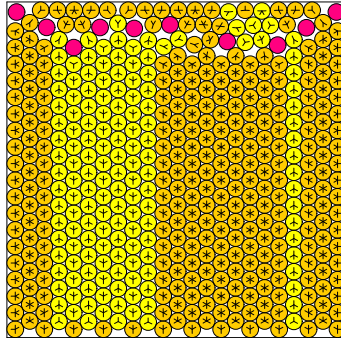
451 circles in a square



radius = 0.024607895226 density = 0.868072890476
 ratio = 40.400346812356 contacts = 1050

N = 452

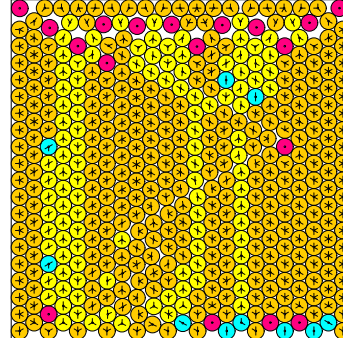
452 circles in a square



radius = 0.024684998971 density = 0.865275753878
 ratio = 40.510493125015 contacts = 1095

N = 453

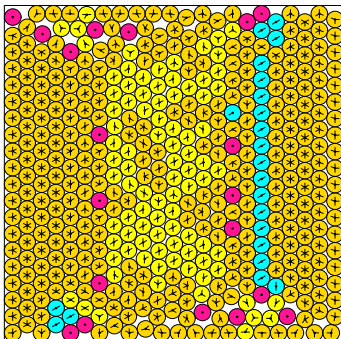
453 circles in a square



radius = 0.024660016541 density = 0.865435691203
 ratio = 40.551473204537 contacts = 986

N = 454

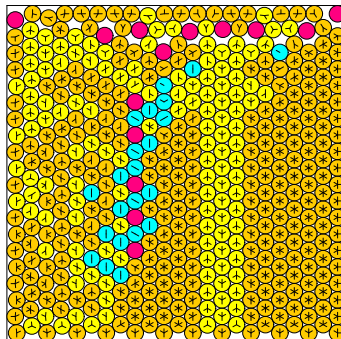
454 circles in a square



radius = 0.024607895226 density = 0.863683581044
 ratio = 40.637364810311 contacts = 968

N = 455

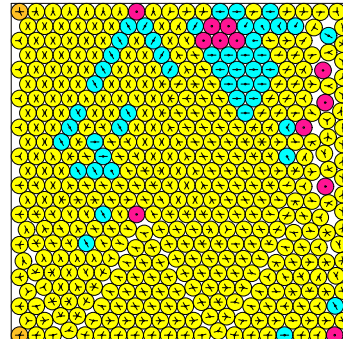
455 circles in a square



radius = 0.024657989548 density = 0.863342850046
 ratio = 40.650154714511 contacts = 936

N = 456

456 circles in a square



radius = 0.024562020390 density = 0.864256969528
 ratio = 40.713263165447 contacts = 831