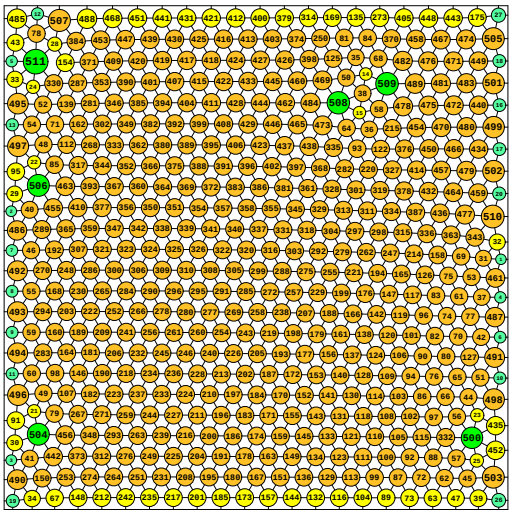
# N = 511

**511 circles in a square**

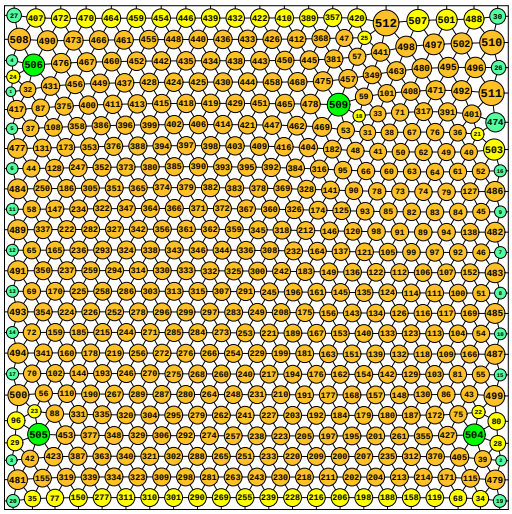


sumradii = 12.029545977448 density = 0.896653102932
sumperim = 75.583866537543 contacts = 1533

© E. Specht 12-NOV-2026

# N = 512

**512 circles in a square**

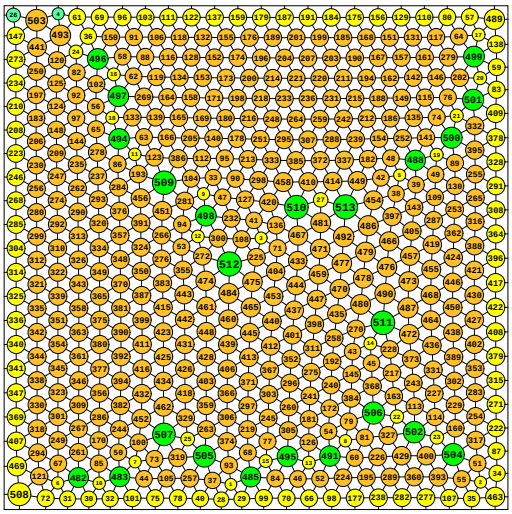


sumradii = 12.035324571594 density = 0.896583125353
sumperim = 75.620174515377 contacts = 1536

© E. Specht 12-NOV-2026

# N = 513

**513 circles in a square**

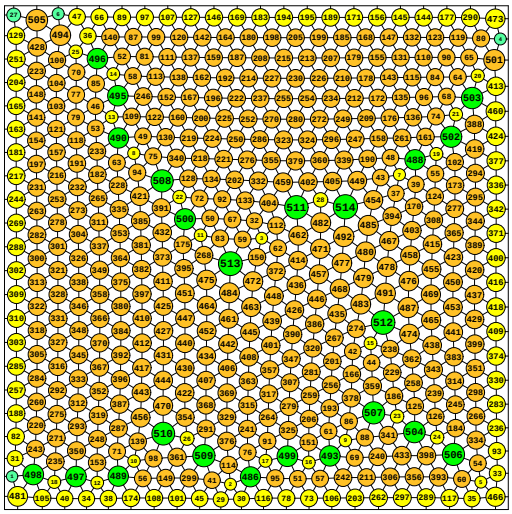


sumradii = 12.046738087839 density = 0.896155771602
sumperim = 75.691887752951 contacts = 1539

© E. Specht 12-NOV-2026

# N = 514

**514 circles in a square**

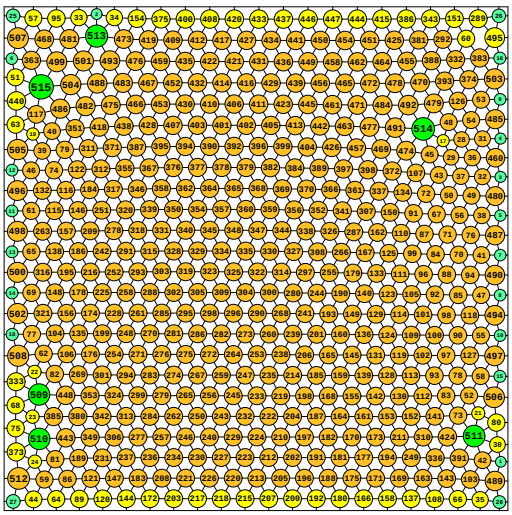


sumradii = 12.059018065765 density = 0.896290175702
sumperim = 75.769045129828 contacts = 1542

© E. Specht 12-NOV-2026

# N = 515

**515 circles in a square**

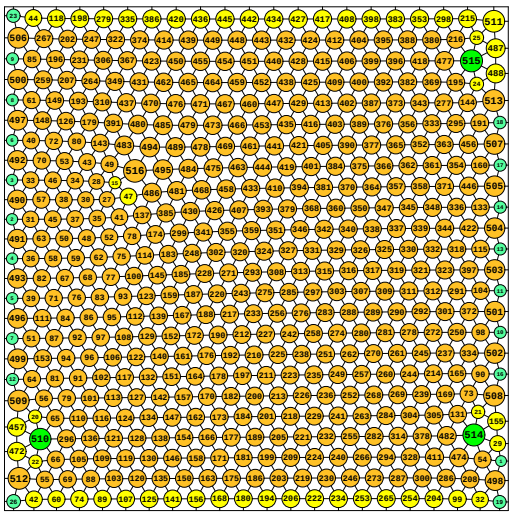


sumradii = 12.077258103182 density = 0.896686886451
sumperim = 75.883650664929 contacts = 1545

© E. Specht 12-NOV-2026

# N = 516

**516 circles in a square**



sumradii = 12.093800960813 density = 0.896667602916
sumperim = 75.987592504935 contacts = 1548

© E. Specht 12-NOV-2026