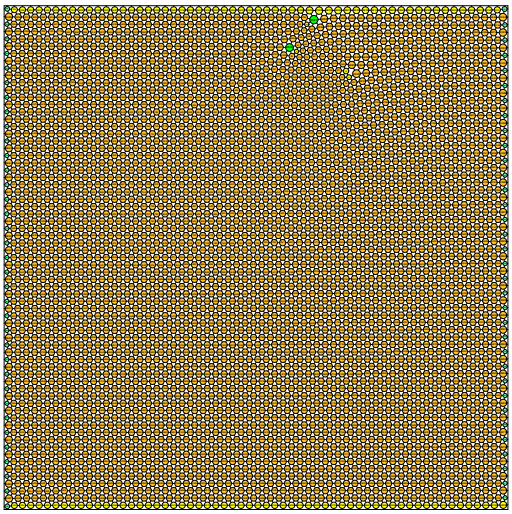
# N = 4117

**4117 circles in a square**

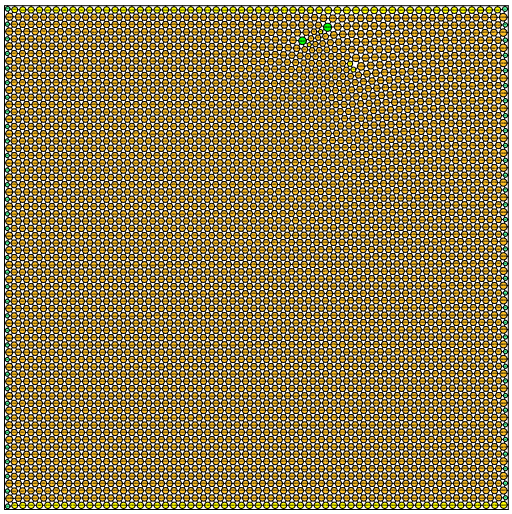


**sumradii = 34.362885230064 density = 0.903258919992**
**sumperim = 215.908375589836 contacts = 12351**

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# N = 4118

**4118 circles in a square**

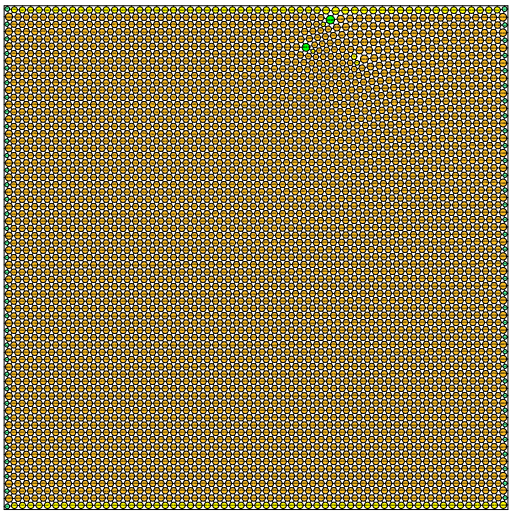


**sumradii = 34.366725343338 density = 0.903254039010**
**sumperim = 215.932503733138 contacts = 12354**

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# N = 4119

**4119 circles in a square**

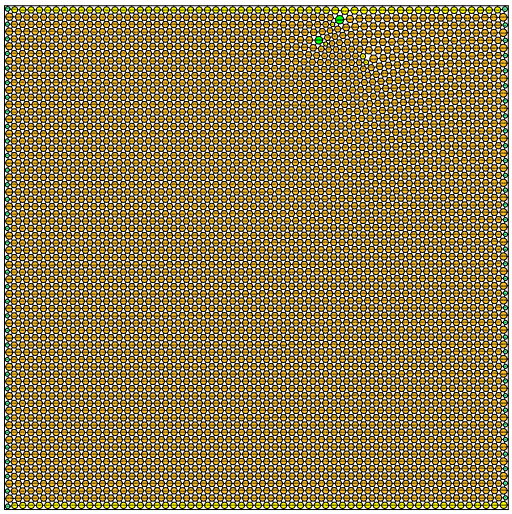


**sumradii = 34.371099118050 density = 0.903262410588**
**sumperim = 215.959984970146 contacts = 12357**

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# N = 4120

**4120 circles in a square**

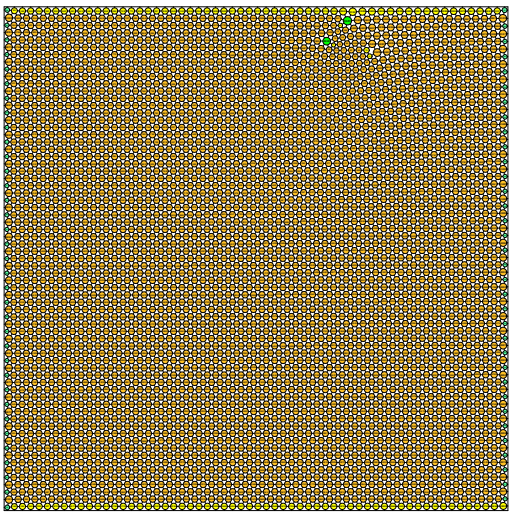


**sumradii = 34.375498799923 density = 0.903256185404**
**sumperim = 215.987628986646 contacts = 12360**

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# N = 4121

**4121 circles in a square**

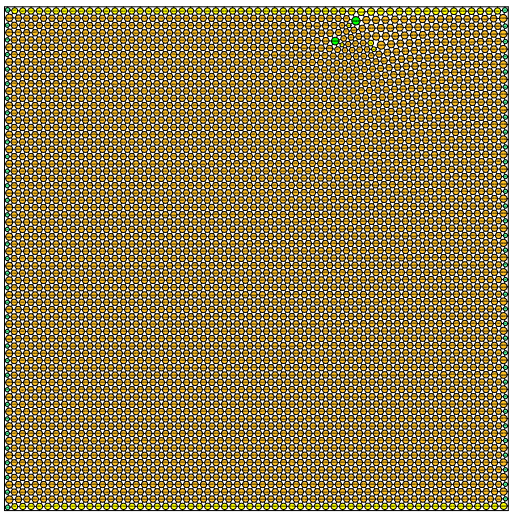


**sumradii = 34.379581461185 density = 0.903257805047**
**sumperim = 216.013281103901 contacts = 12363**

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# N = 4122

**4122 circles in a square**



**sumradii = 34.383673631479 density = 0.903260875018**
**sumperim = 216.038992968167 contacts = 12366**

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