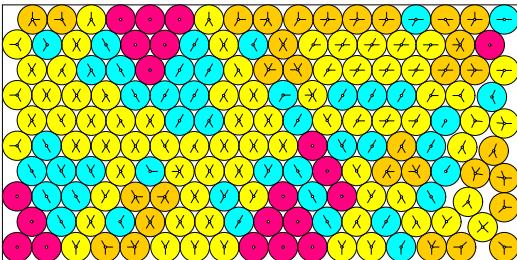


$N = 169$

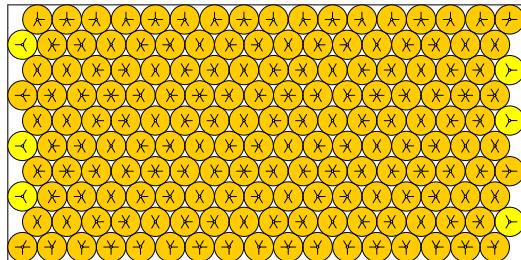
169 circles in a 1x0.50000 rectangle



radius = 0.028468419677 density = 0.860584048663
ratio = 17.563321240904 contacts = 250

$N = 170$

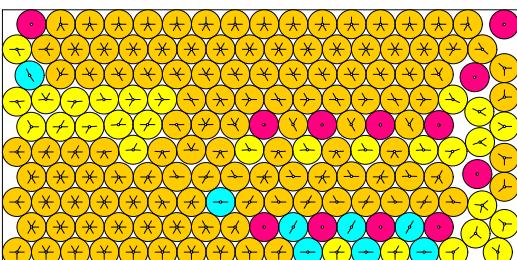
170 circles in a 1x0.50000 rectangle



radius = 0.028462230114 density = 0.865299874763
ratio = 17.567140662858 contacts = 415

$N = 171$

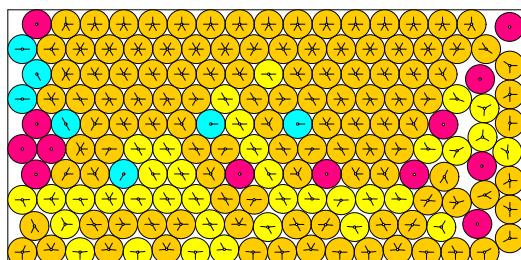
171 circles in a 1x0.50000 rectangle



radius = 0.028155157990 density = 0.851710332925
ratio = 17.758735368342 contacts = 358

$N = 172$

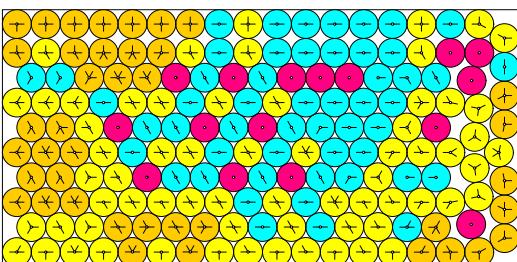
172 circles in a 1x0.50000 rectangle



radius = 0.028055713370 density = 0.850650079957
ratio = 17.821681929868 contacts = 340

$N = 173$

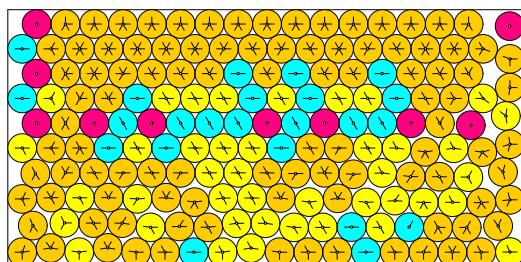
173 circles in a 1x0.50000 rectangle



radius = 0.027974980514 density = 0.850678696366
ratio = 17.873113432788 contacts = 257

$N = 174$

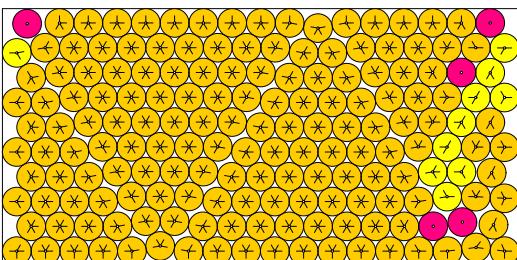
174 circles in a 1x0.50000 rectangle



radius = 0.027877534651 density = 0.849645663697
ratio = 17.93558862209 contacts = 331

$N = 175$

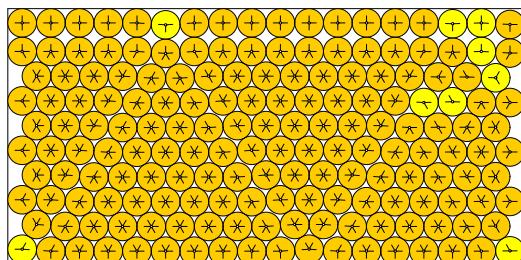
175 circles in a 1x0.50000 rectangle



radius = 0.027854494021 density = 0.853116741871
ratio = 17.950424790502 contacts = 451

$N = 176$

176 circles in a 1x0.50000 rectangle



radius = 0.027788671526 density = 0.853941473803
ratio = 17.992943618797 contacts = 460