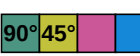


100 BEST KNOWN SQUARE PACKINGS

The Squares Project · github.com/jlevy/squares



The square packing problem asks for the side $s(n)$ of the smallest square that can hold n unit squares, where the squares are free to rotate but cannot overlap

 proved optimal (45 of 100)  colors indicate distinct tilt angles
 exact value known (98 of 100)  shade indicates number of full-side contacts
 only known numerically (2 of 100) deg is the algebraic degree of that side length
 rigid (14 of 100) recent result (since August, 2026)

Best packings due to Göbel, Trump, Wainwright, Hämäläinen, Stenlund, Friedman, Bidwell, Cantrell, Morandi, Ellsworth, Hajba, Schadt, Chaoweerasarit, Couzo, Daniel, Gupta, Ostashev, PingYou Ltd, Xu, Barnett, Chang, DeVincendis, hmbelvedere, Mishapolk, Rehwaldt

Lower bounds due to Göbel, Stromquist, Kearney, Shiu, Bentz, Daniel, Vlasenko, Guzhou0806, Hosono, Ahmed, Karakuş, Ryu

Optimality proofs due to Göbel, Stromquist, Friedman, El Mounni, Kearney, Shiu, Bentz, Vlasenko, Levy, Daniel, Hosono, Ahmed, Karakuş; formalization by EvolvingPrograms, Gurevitch, Guzhou0806, Julian-JJ, Lewis

Drawn packings are regularized for cleaner display using Squares Project rules, based on Daniel's regularizer