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Kristin DeSplinter, Satyan L Devadoss* (devadoss@sandiego.edu), **Jordan Readyhough**
and **Bryce Wimberly**. *Cube unfoldings never overlap*.

The open problem of constructing a net (a connected edge-unfolding without overlap) for every convex polyhedron can be traced back 500 years to Albrecht Dürer. We explore nets for cubes by developing a visual algorithm. This is used to show that any unfolding of an n -cube is without overlap, with elegant relationships to integer partitions and chord diagrams. (Received January 24, 2019)