

Folding DNA to create nanoscale shapes and patterns

Supplementary Note 12

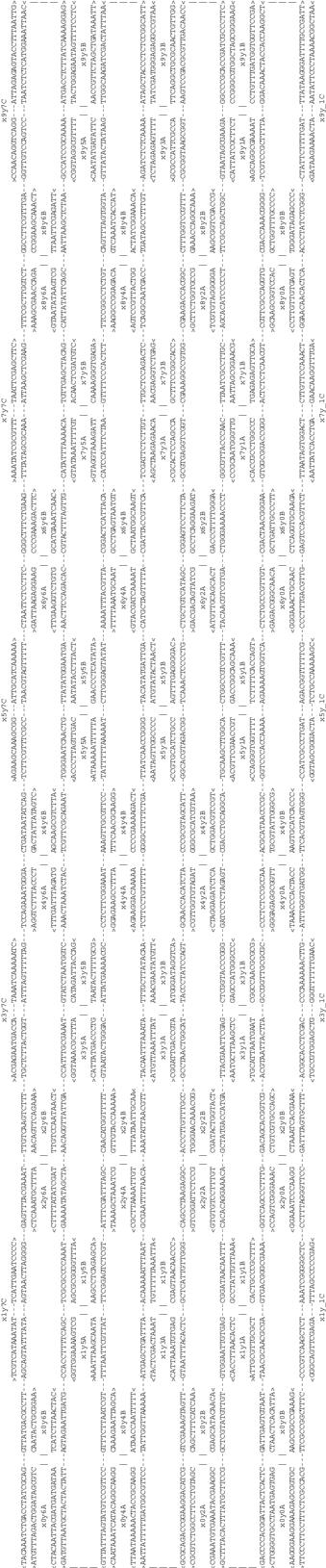
Paul W. K. Rothemund

Computation and Neural Systems, and Computer Science, California Institute of Technology, Pasadena, California, United States of America

DO NOT PRINT! THIS DOCUMENT WILL NOT PRINT CLEARLY!

This document contains full designs for all DNA origami, with staple and scaffold sequences explicitly written out. Because the designs are so large, and the fonts are so small, the designs are meant to be inspected on a computer using a PDF reader such as Adobe Acrobat, by zooming in.

1. Depending on the width of a design, it is printed horizontally, or vertically.
2. For the $\sim 1/3$ square and square, black and white design diagrams are used. Staples only participate in two helices and so are easy to distinguish. For all other designs, color is used to indicate contiguous sections of staples.
3. For the full design of the 3-hole disk (smiley), seams other than the central seam are not diagrammed correctly—scaffold crossovers are not correctly represented at these seams but these can be easily inferred from the folding path as diagrammed in Fig. 2d₁. Some staples may appear to be continuous (or broken) where they are not, in particular down the center of the structure where spurious dashes have been drawn. Use the color of bases to determine the continuity of staple strands. Adjacent bases (along the helix or from one helix to the next) are part of the same staple strand if and only if their color is the same.

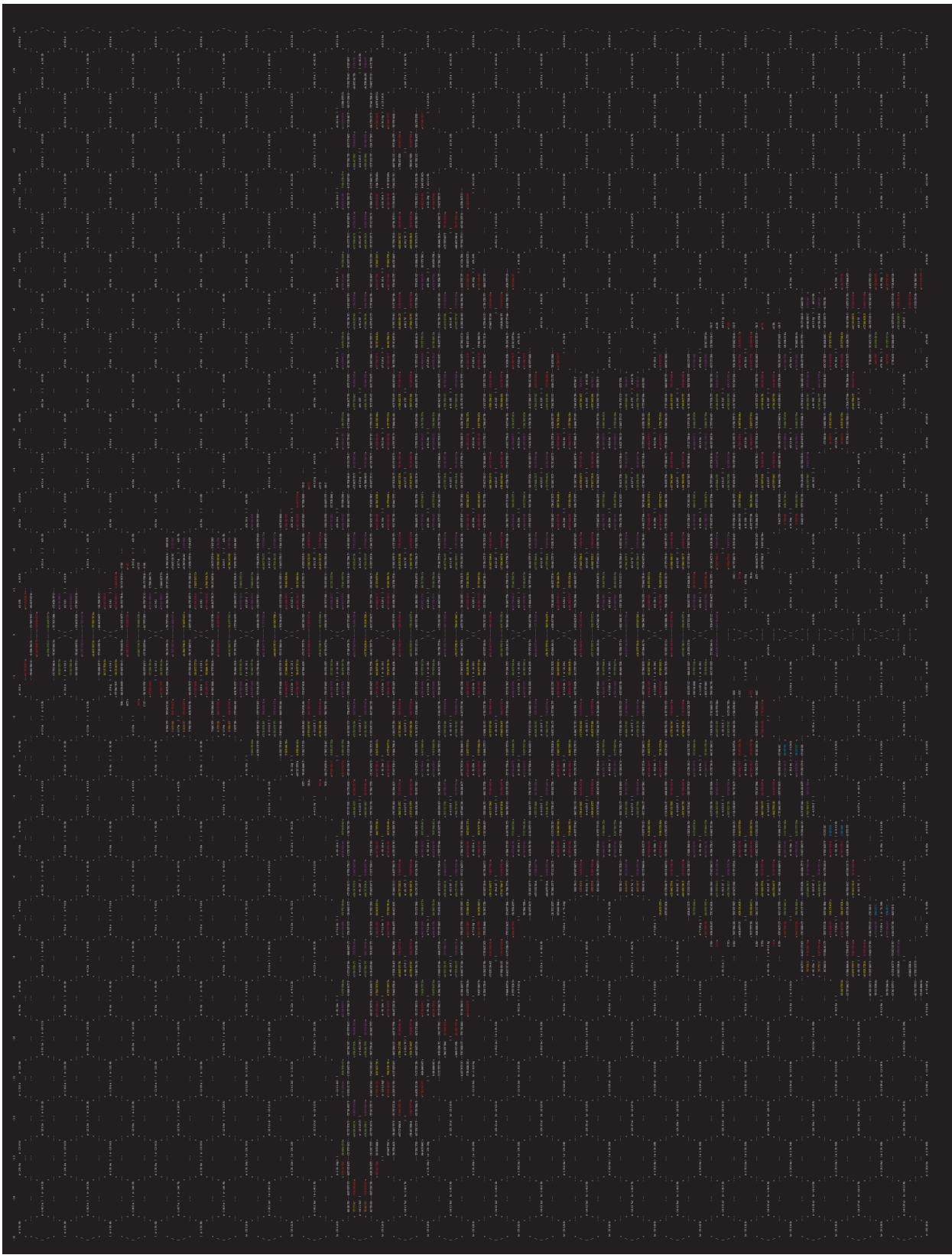


Supplementary Figure S41: Black and white ascii diagram for $\sim 1/3$ of a square.

Supplementary Figure S42: Black and white ascii diagram for full square.



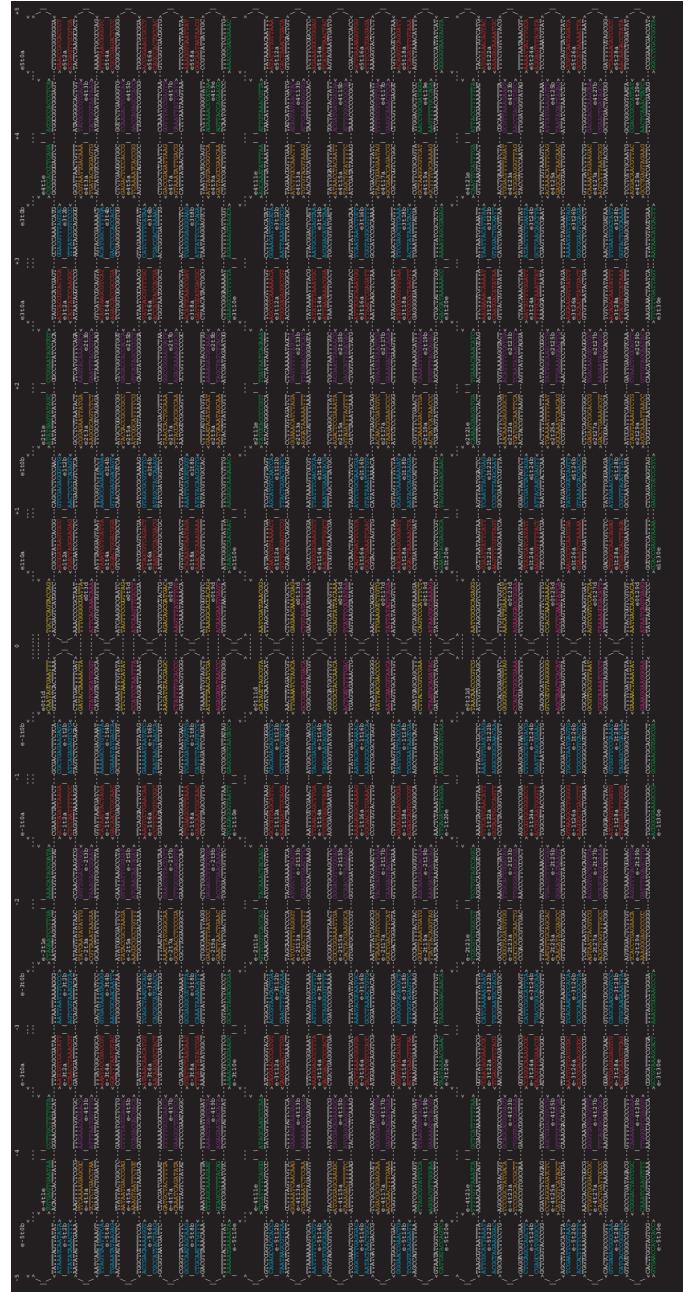
Supplementary Figure S43: Design for the rectangle. (Bridged seam.)



Supplementary Figure S44: Design of a star.



Supplementary Figure S45: Design for the disk with holes (smiley).



Supplementary Figure S46: Design for the equilateral composed of rectangular domains. The three domains are displayed one above the other, with a space between them, rather than as they actually appear in the molecular structure.



Supplementary Figure S47: Design for the sharp triangle composed of trapezoidal domains. The three domains are displayed one above the other, with a space between them, rather than as they actually appear in the molecular structure.



Supplementary Figure S48: Design for the tall rectangle. (Bridged seam).