Does the first triangulation work for arbitrary *n*?

Do triangulations which use a mix of the two fall in between the two in terms of what angles and *n* are possible?

Have you tried the same thing with a large *k*-gon?

Can you explain what C¹ and C² are?

Could you go over the definition/meaning of semi-creases?

Why does that n(p) is perpendicular to the boundary edge imply that n'(p) is?

You're proving things are impossible, even though we have paper examples of them existing! So my question is, what about the mathematical model is more restrictive than the real world? What choice do we make in modeling the paper that allows us to prove something is impossible in the model which is possible in real life?

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Refer to: Cardinal, J., E. D. Demaine, et al. "Algorithmic Folding Complexity." *Graphs and Combinatorics* 27, no. 3 (2011): 341–51.

http://en.wikipedia.org/wiki/File:Dragon_curve_animation.gif by 碳酸鈣, 2008

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render by Solkoll , 2005

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Hyparhedra: Platonic Solids

[Demaine, Demaine, Lubiw 1999]





Crease the diagonals



Fold the top edge to the

center point, creasing only

between the diagonals



Unfold

Repeat on the bottom (fold and unfold)



Fold and unfold on 1/4 and 3/4 marks



Repeat on the bottom



Repeat on left and right sides



Turn over, and crease in between the squares in the opposite direction





Final crease pattern --- Valley fold ---- Mountain fold

Folding the crease pattern completely forms an "X" shape

Partially opening it forms a hypar

Courtesy of Erik D. Demaine, Martin L. Demaine, and Anna Lubiw. Used with permission.

Demaine, Demaine, Lubiw 1999



[Demaine, Demaine, Lubiw 1999]

Screencap of animation of rotating truncated tetrahedron removed due to copyright restrictions.

http://en.wikipedia.org/wiki/File:Truncatedtetrahedron.gif by Cyp

6.849 Geometric Folding Algorithms: Linkages, Origami, Polyhedra Fall 2012

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