

Origami Pattern - N-sided Hypar

Origami Pattern - N-sided Hypar

Options

Mountain creases

Valley creases

Universal creases

Edge

Vertices

Type of Hypar

☒ Classic Hypar

☐ Asymmetric triangulation

☐ Alternating asymmetric triangulation

Radius of polygon

50,000

-

+

mm

Number of polygon sides

5

-

+

Number of rings

4

-

+

☐ Simplify center (probably not suited for odd number of sides)

Implements Hypar (classical hyperbolic paraboloid approximate).

Classic Hypar is the easiest one to fold. However, it's not rigid foldable. More information in: Demaine, E. D., Demaine, M. L., Hart, V., Price, G. N., Tachi, T. (2011). (Non)Existence of Pleated Folds: How Paper Folds Between Creases. Graphs and Combinatorics, 27(3), 377–397. <https://doi.org/10.1007/s00373-011-1025-2>

☒ Live preview

Close

Apply

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Vertices

☒ Draw mountains?

☐ Dashed strokes?

Mountain dash + gap length

1,00

-

+

Mountain dash duty cycle

0,50

-

+

Width of mountain strokes

0,1

-

+

RGB

HSL

HSV

CMYK

Wheel

CMS

R:

255

-

+

G:

0

-

+

B:

0

-

+

Options

Mountain creases

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Universal creases

Edge

Vertices

☒ Draw valley?☐ Dashed strokes?

Valley dash + gap length

1,00

-

+

Valley dash duty cycle

0,25

-

+

Width of valley strokes

0,1

-

+

RGB

HSL

HSV

CMYK

Wheel

CMS

R:

0

-

+

G:

0

-

+

B:

255

-

+

A:

100

-

+



RGBA: 0000ffff

☒ Live preview

Close

Apply

Options

Mountain creases

Valley creases

Universal creases

Edge

Vertices

☒ Draw universal creases?☐ Dashed strokes?

Universal dash + gap length

1,00

-

+

Universal dash duty cycle

0,25

-

+

Width of universal strokes

0,1

-

+

RGB

HSL

HSV

CMYK

Wheel

CMS

R:

255

-

+

G:

0

-

+

B:

255

-

+

A:

100

-

+

Options

Mountain creases

Valley creases

Universal creases

Edge

Vertices

☒ Draw edges?☒ Edges as single path?☐ Dashed strokes?

Edge dash + gap length

1,00

-

+

Edge dash duty cycle

0,25

-

+

Width of edge strokes

0,1

-

+

RGB

HSL

HSV

CMYK

Wheel

CMS

R:

0

-

+

G:

0

-

+

B:

0

-

+

A:

100

-

+



RGBA: 000000ff

☒ Live preview

Close

Apply

Options

Mountain creases

Valley creases

Universal creases

Edge

Vertices

☒ Draw vertices?

Radius of vertices

0,7

-

+

Width of vertex strokes

0,0

-

+

RGB

HSL

HSV

CMYK

Wheel

CMS

R:

0

-

+

G:

0

-

+

B:

0

-

+

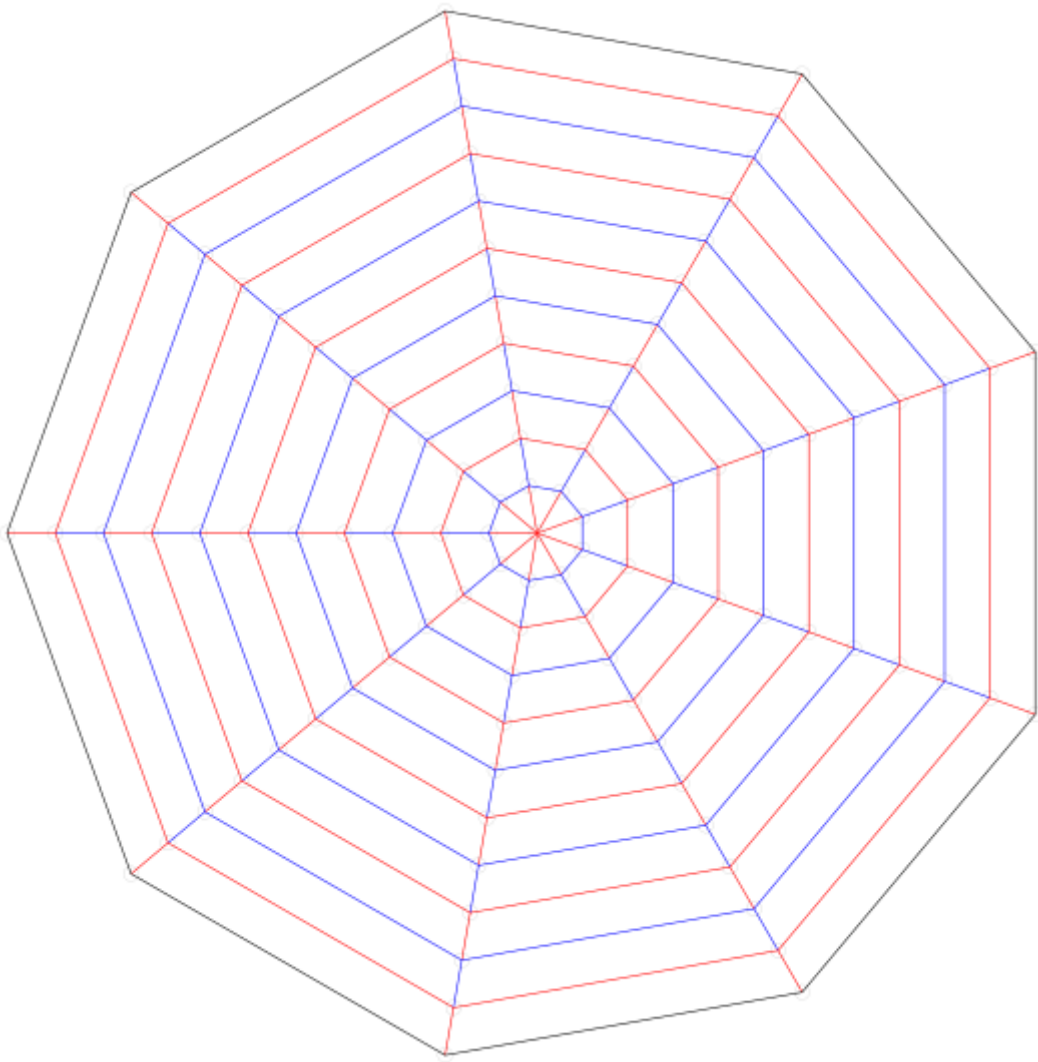
A:

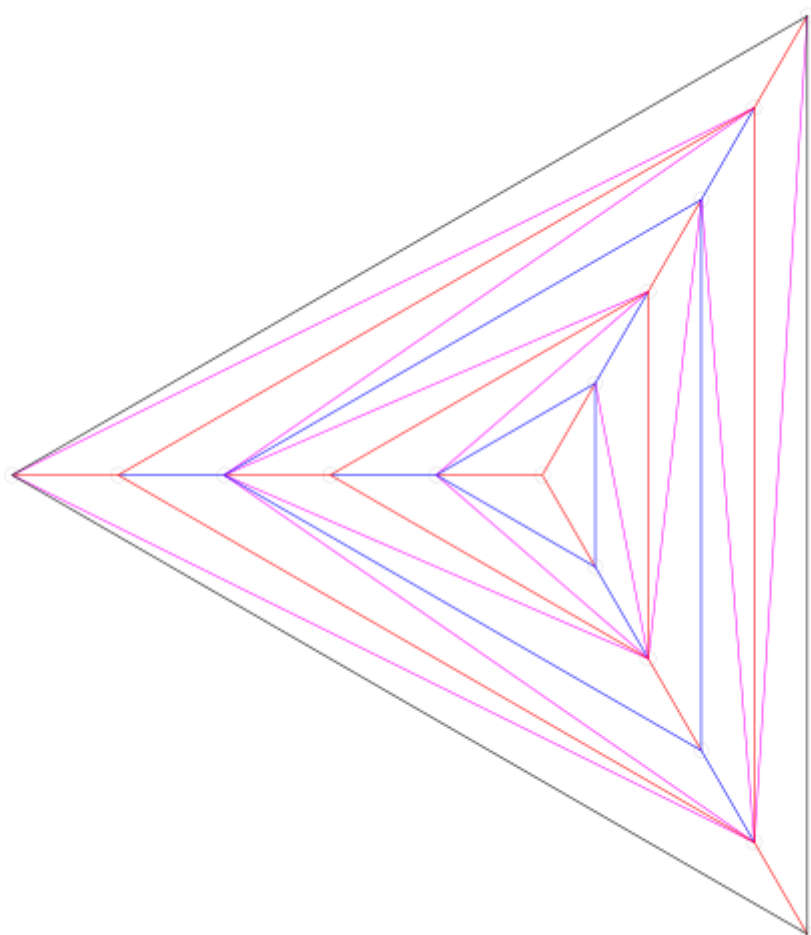
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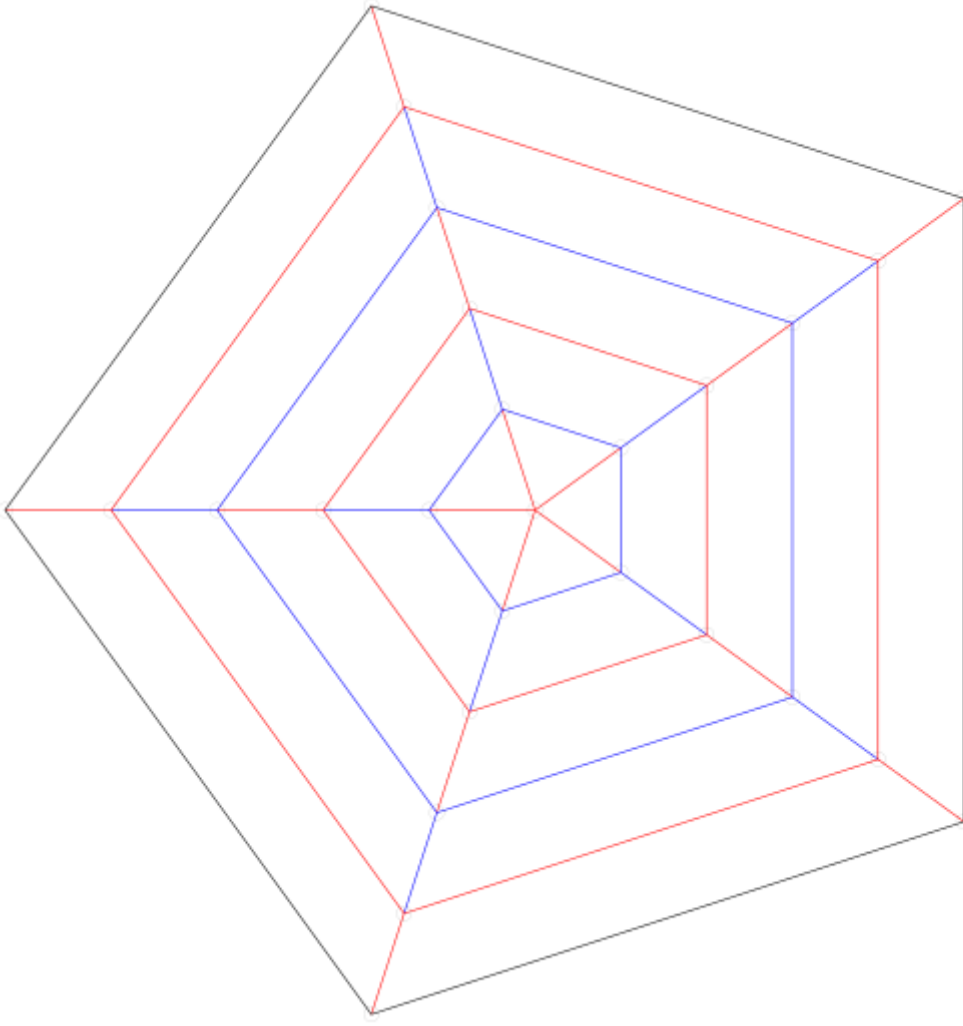
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Example Output







Version #1

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