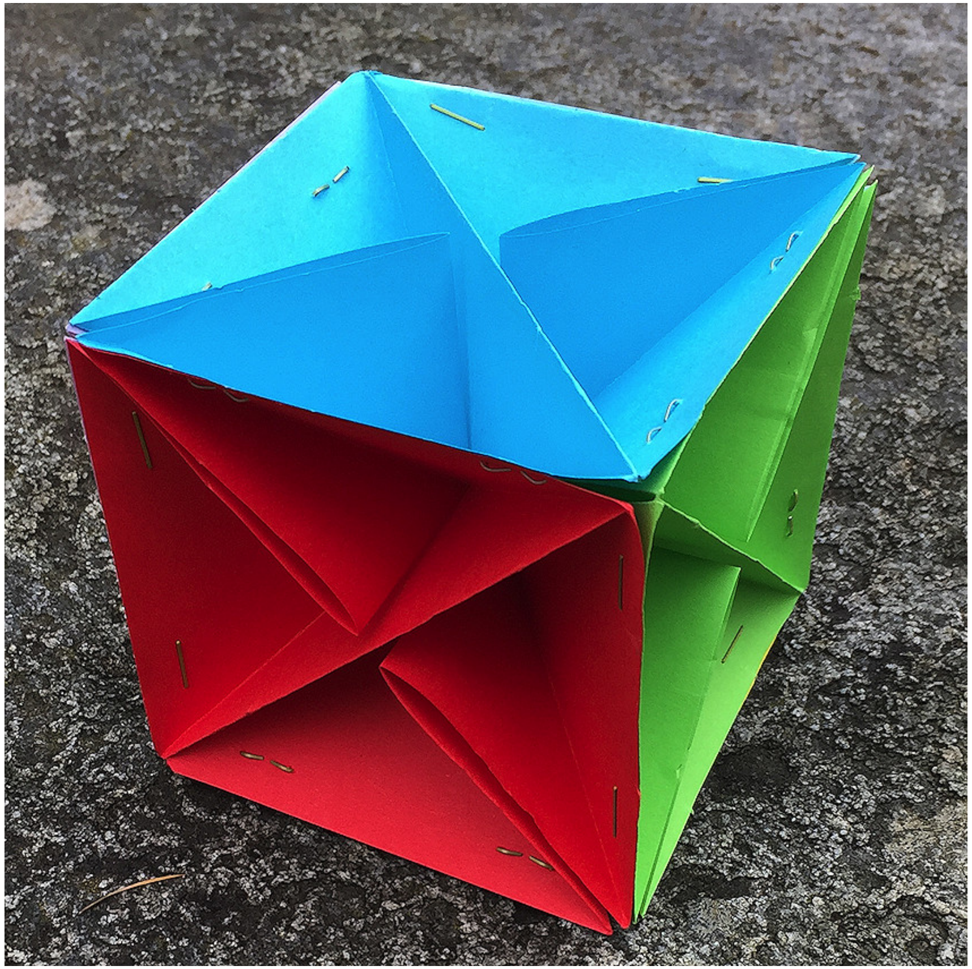
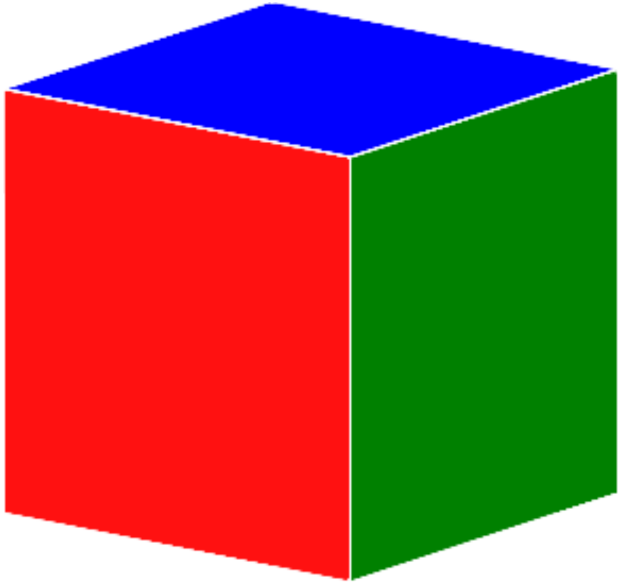
Cube made from six pyramids

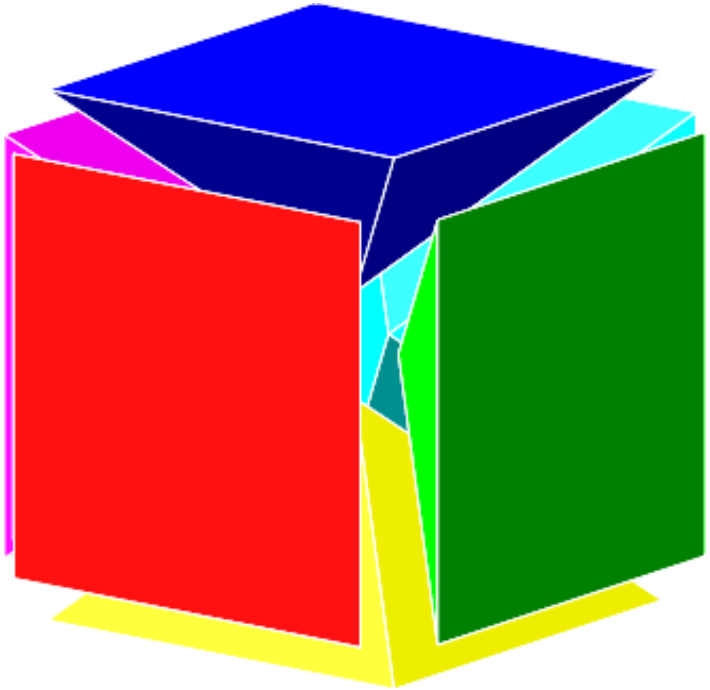


www.walser-h-m.ch/hans/Vortraege/20220407

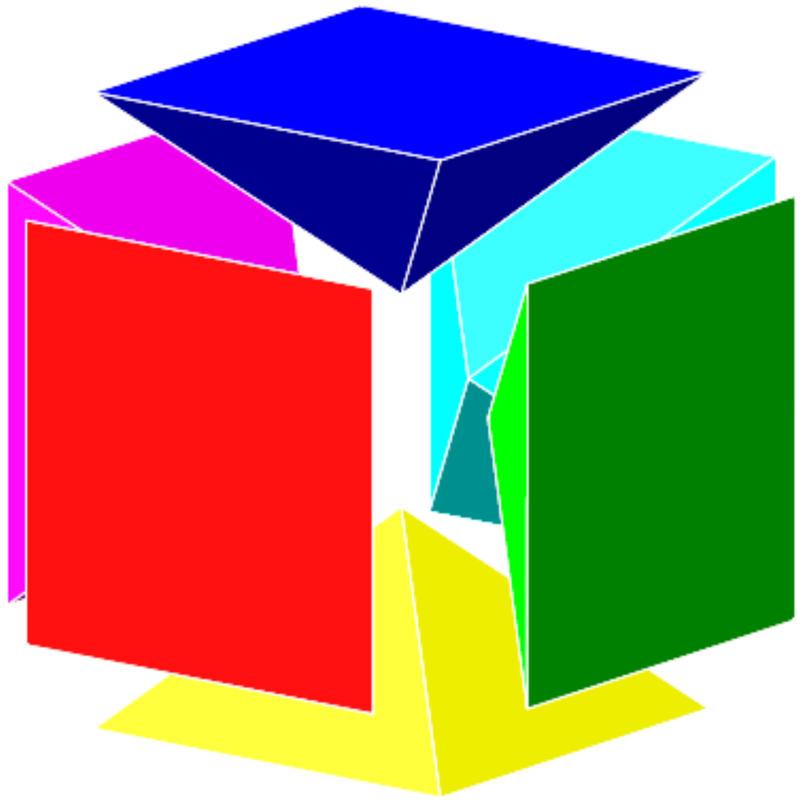
Cube made from six pyramids



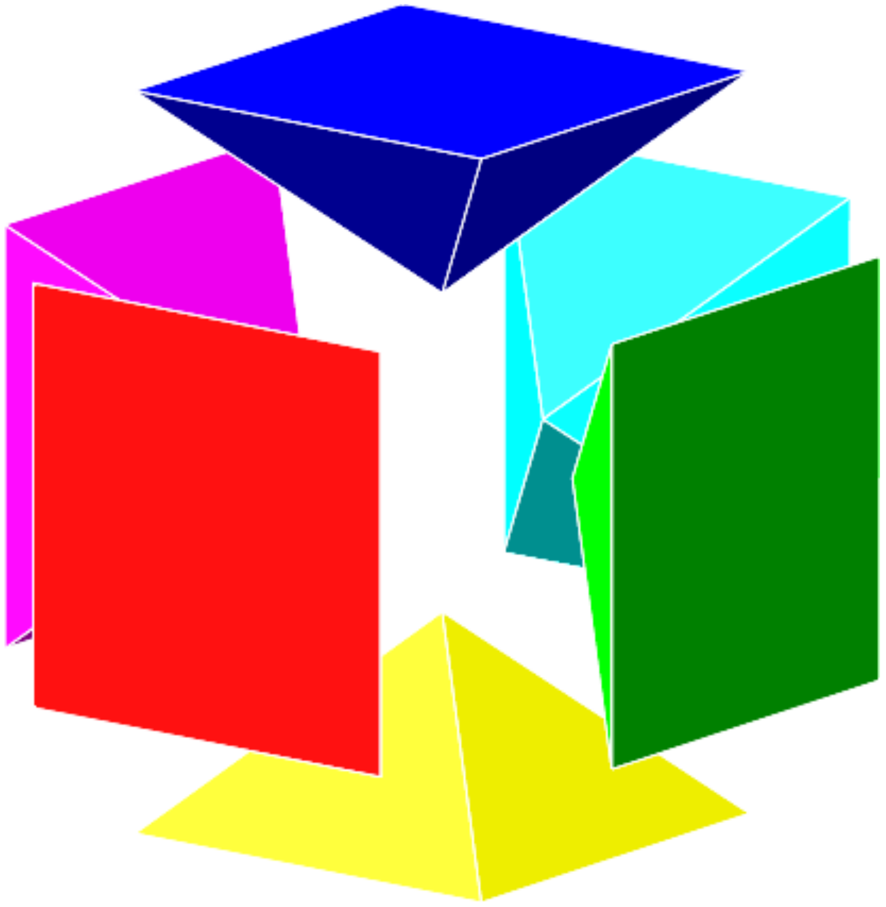
Cube made from six pyramids



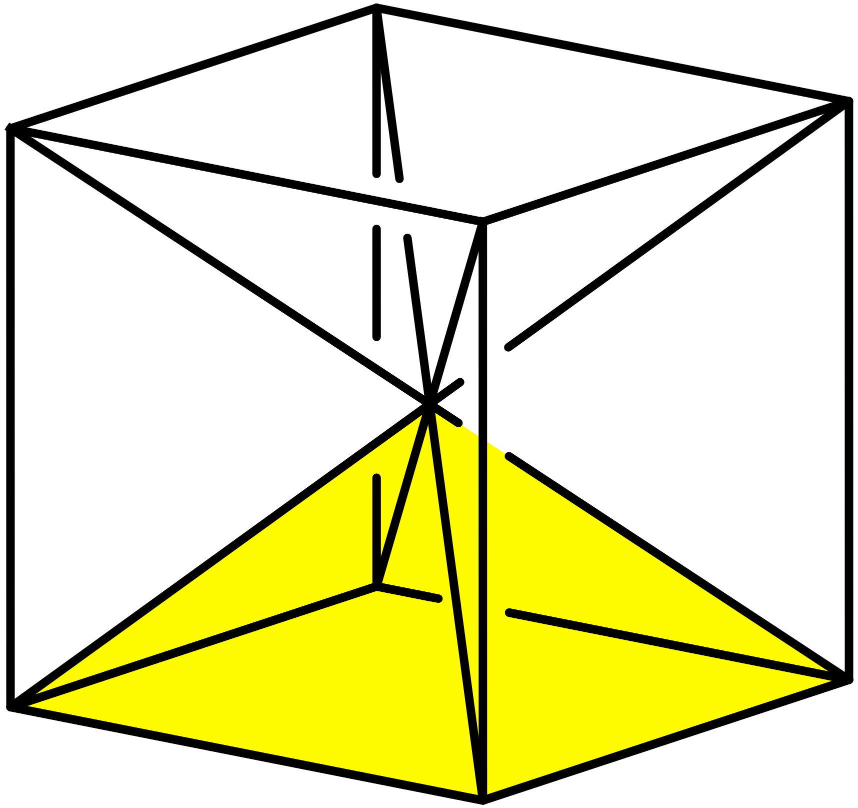
Cube made from six pyramids



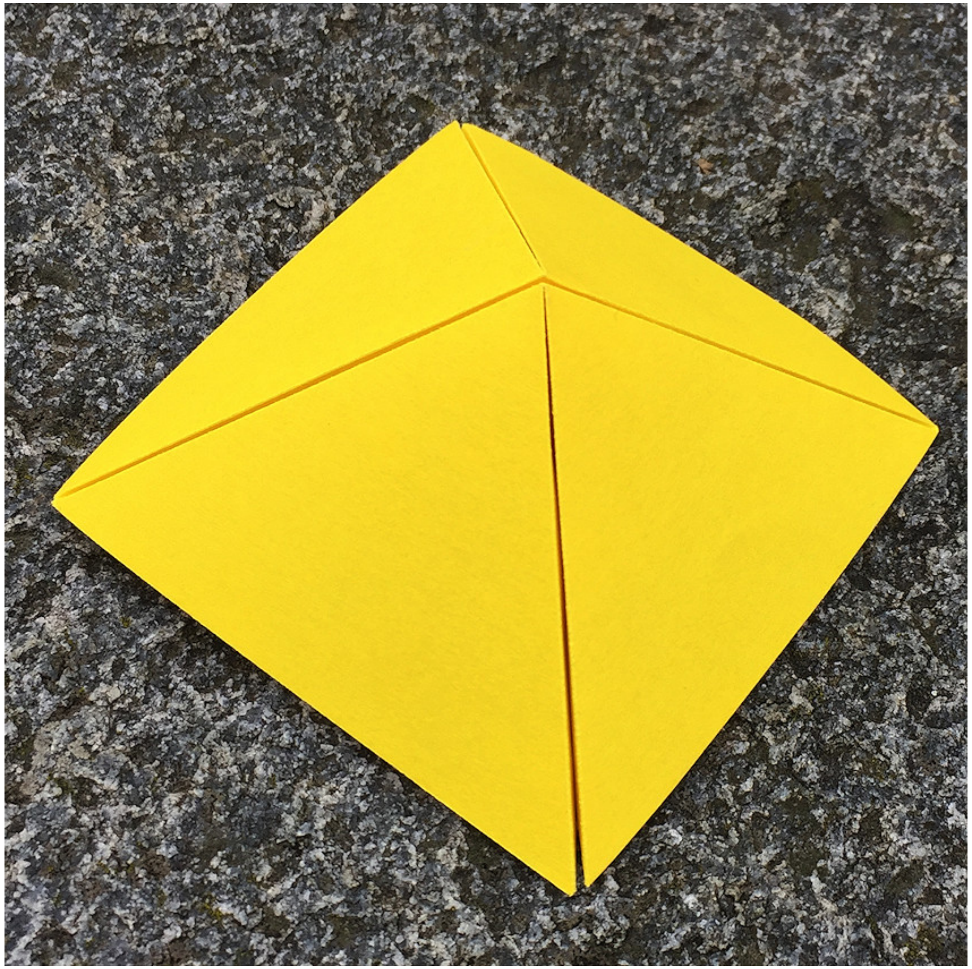
Cube made from six pyramids



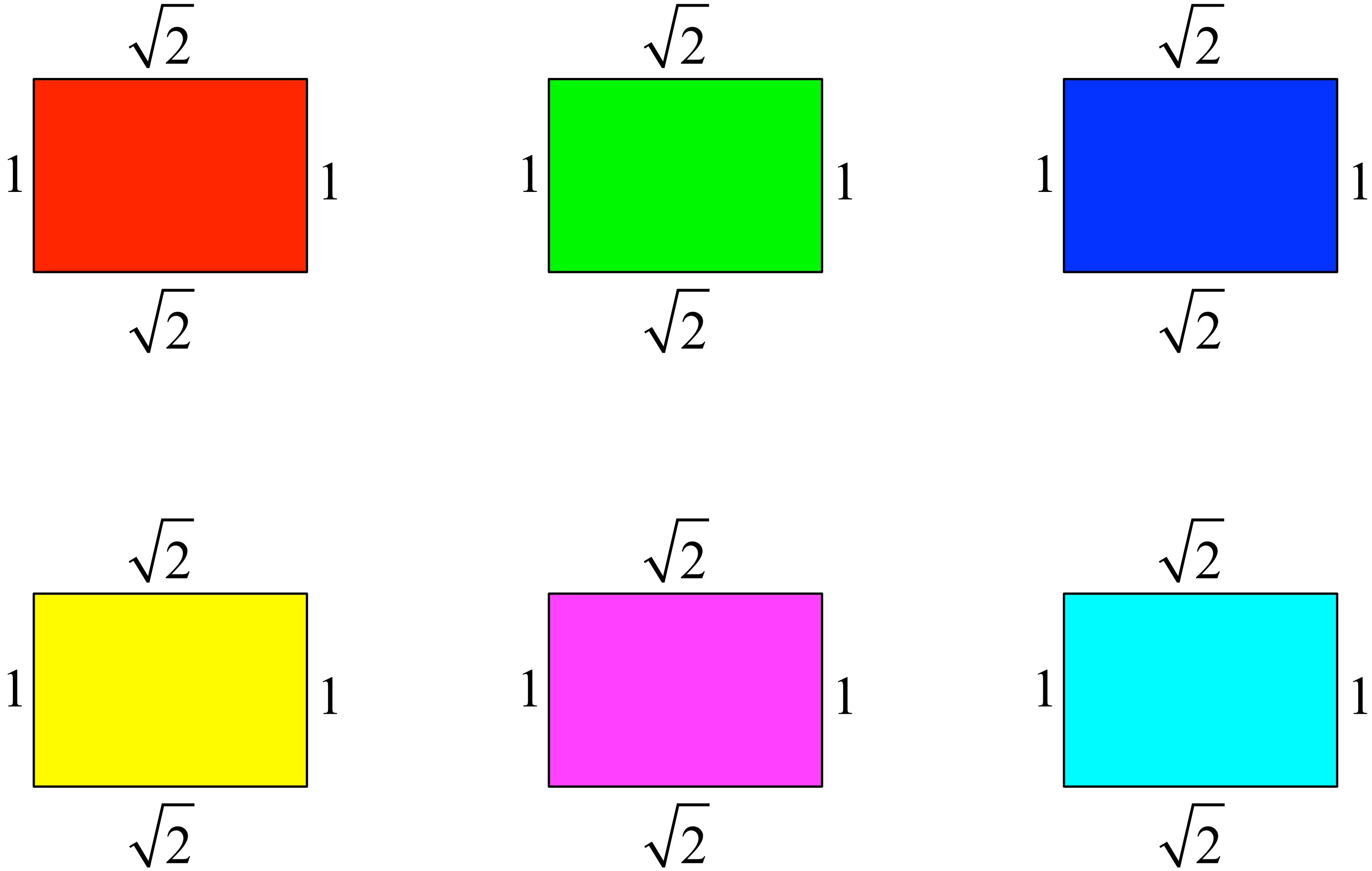
Cube made from six pyramids



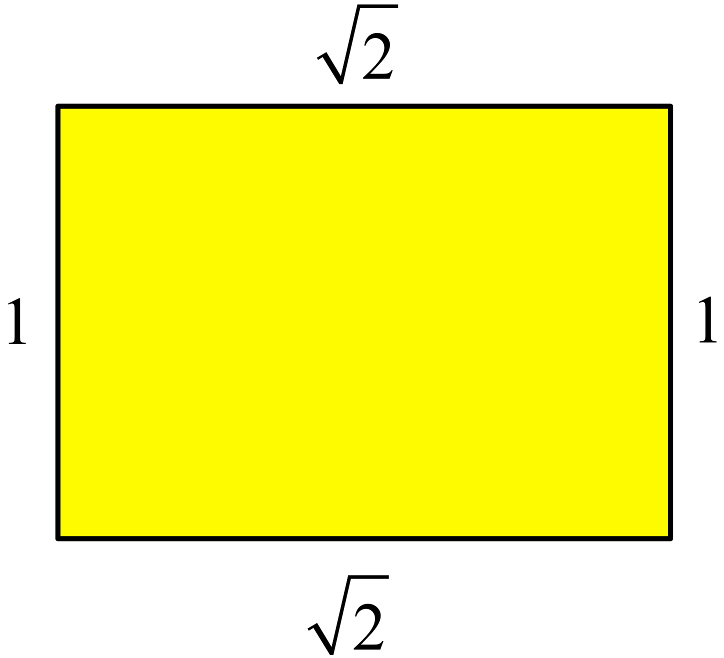
Cube made from six pyramids

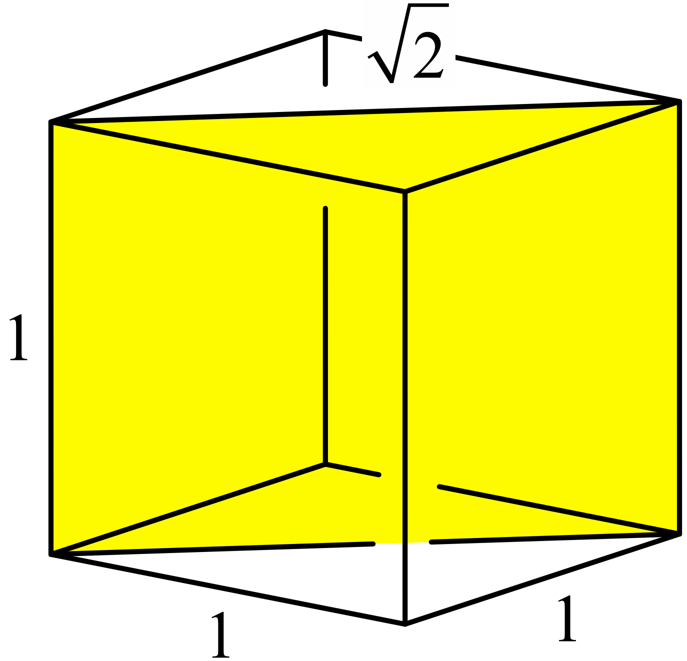


Six sheets of paper

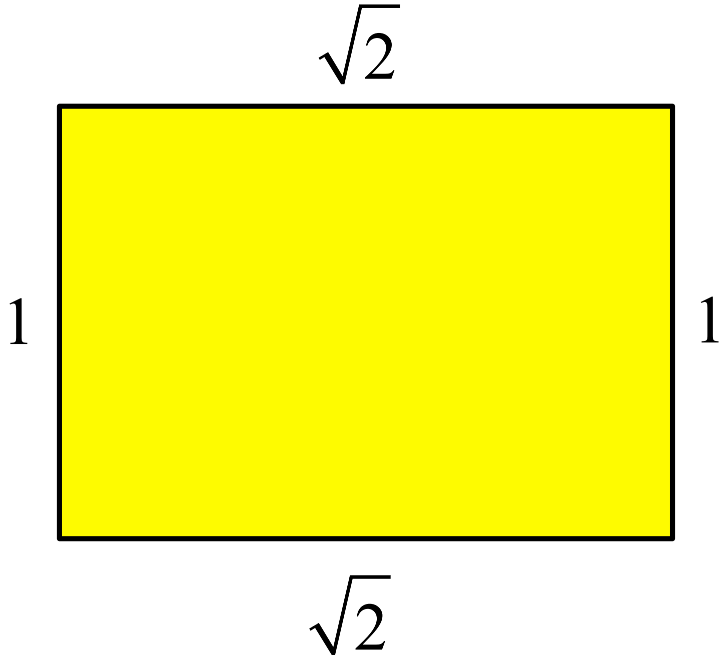

$\sqrt{2}$
1
1
$\sqrt{2}$
$\sqrt{2}$
1
1
$\sqrt{2}$
$\sqrt{2}$
1
1
$\sqrt{2}$
$\sqrt{2}$
1
1
$\sqrt{2}$
$\sqrt{2}$
1
1
$\sqrt{2}$
$\sqrt{2}$
1
1
$\sqrt{2}$

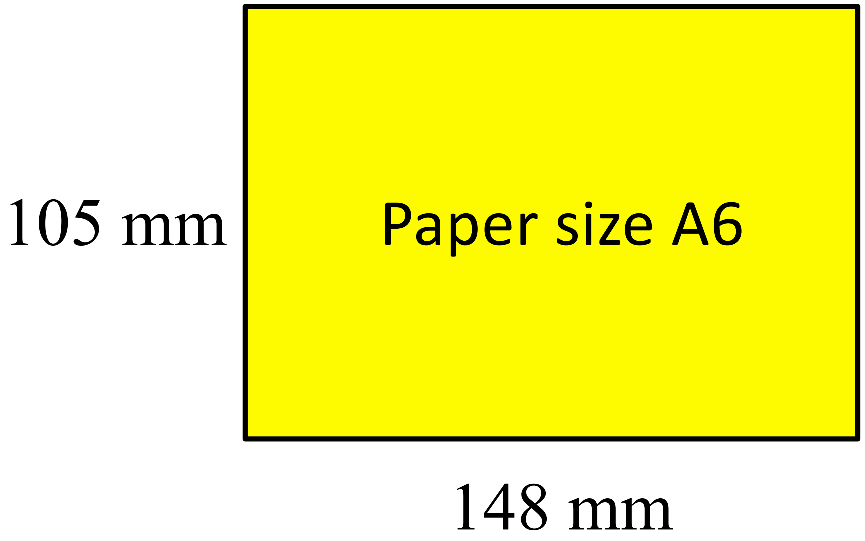
$\sqrt{2}$ in the cube


$\sqrt{2}$
1
1
$\sqrt{2}$

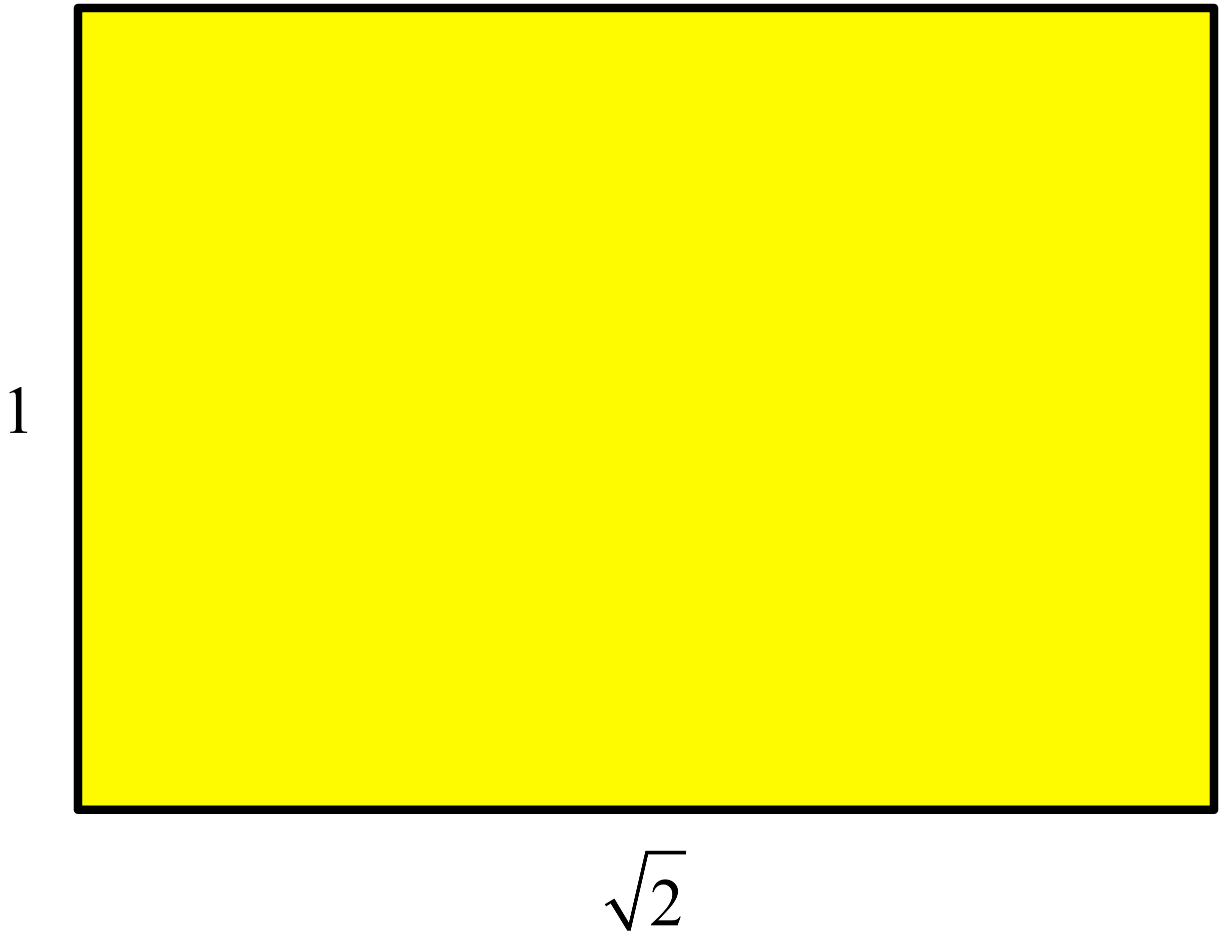


$\sqrt{2}$ in the cube

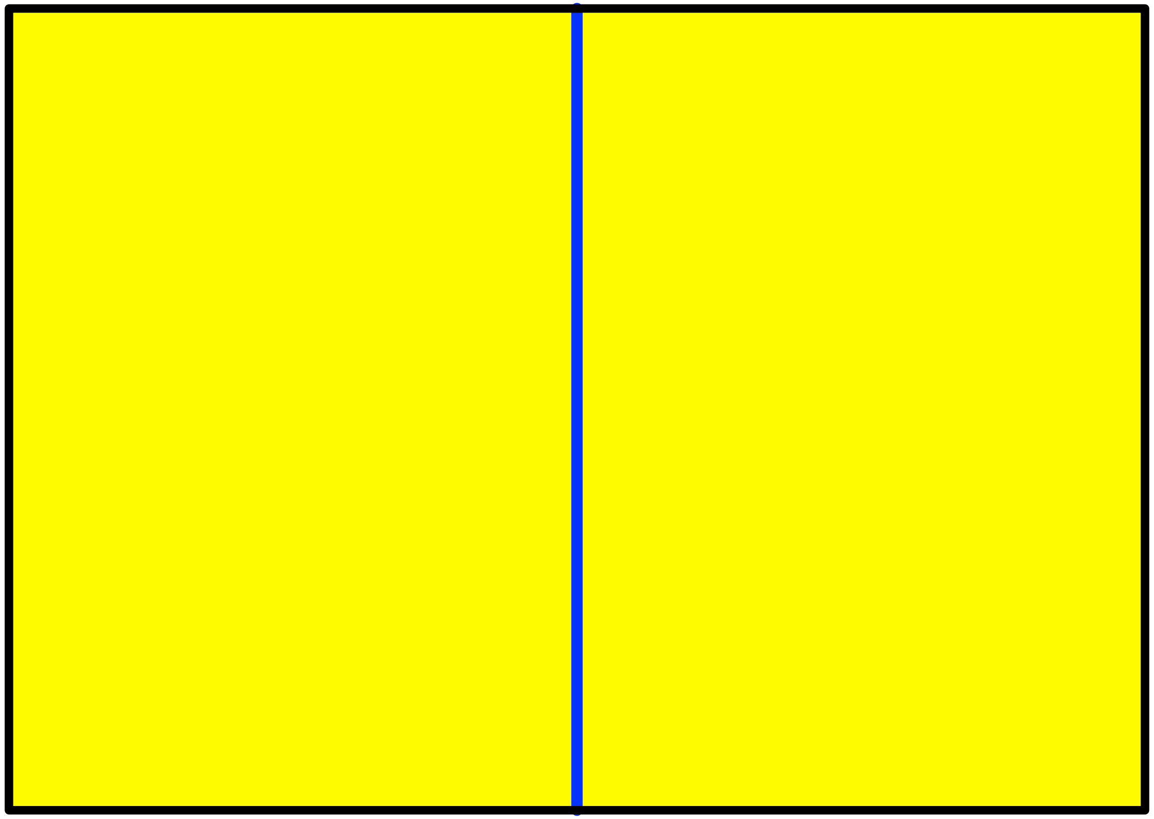

$\sqrt{2}$
1
1
$\sqrt{2}$


105 mm
Paper size A6
148 mm

Folding a pyramid

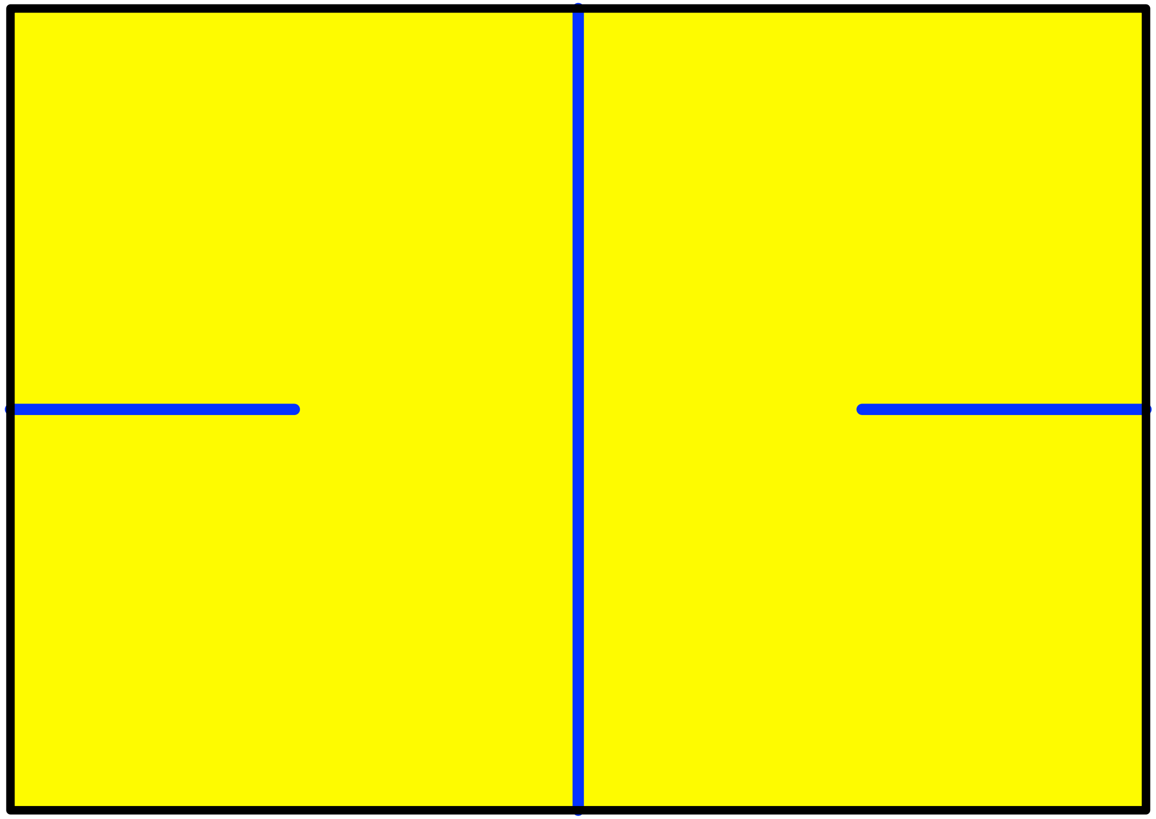


Folding a pyramid



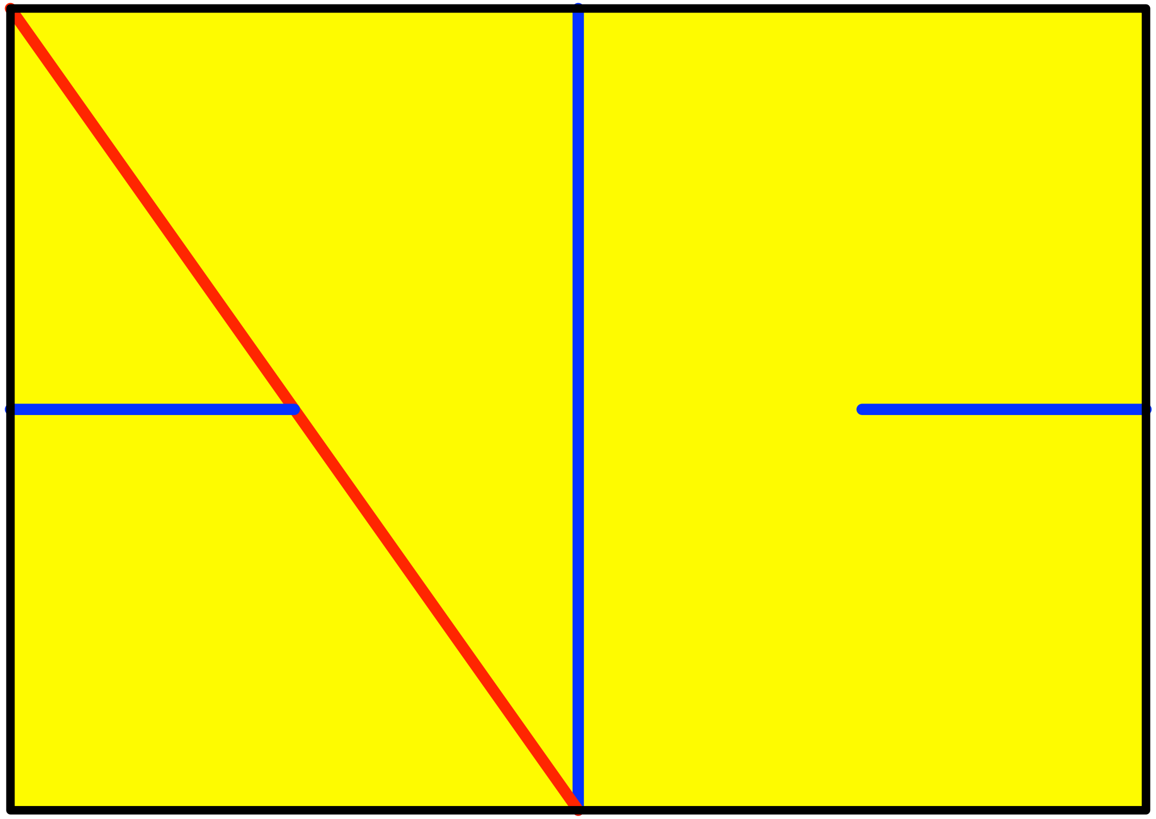
mountain fold

Folding a pyramid



mountain fold

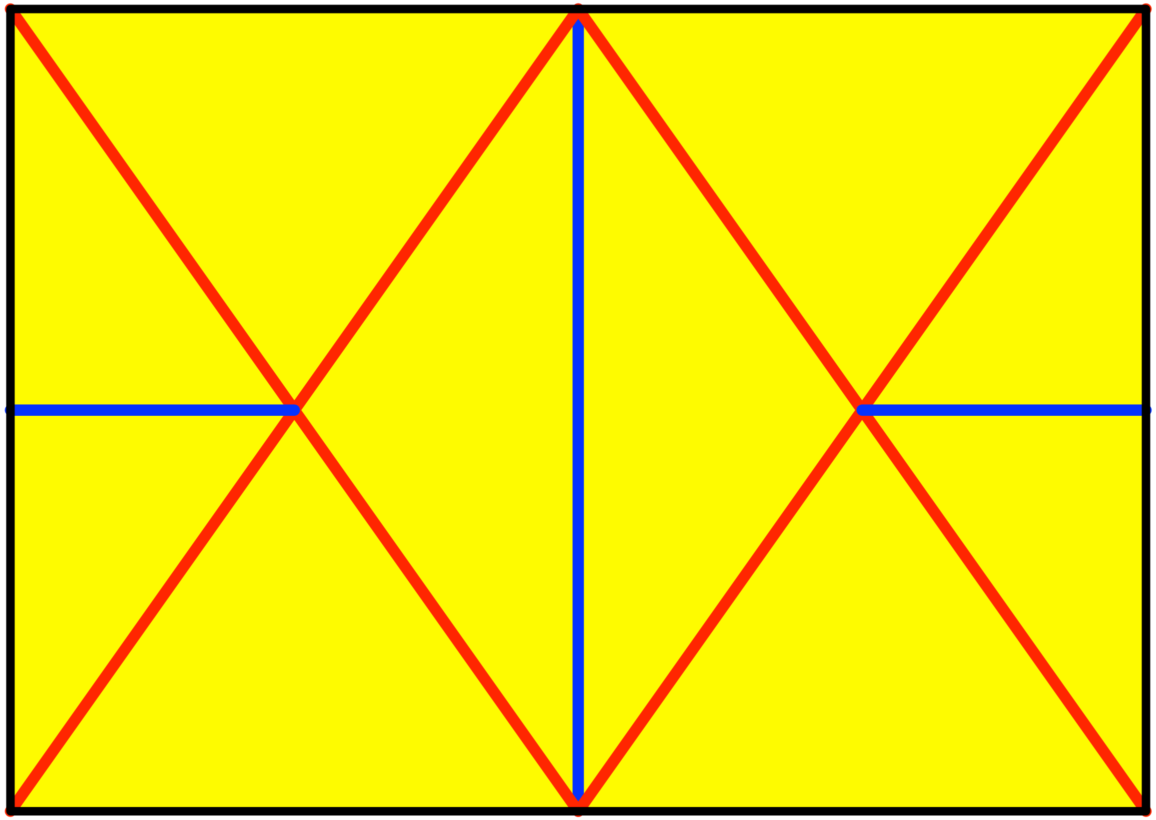
Folding a pyramid



valley fold

scratch with a needle point before folding

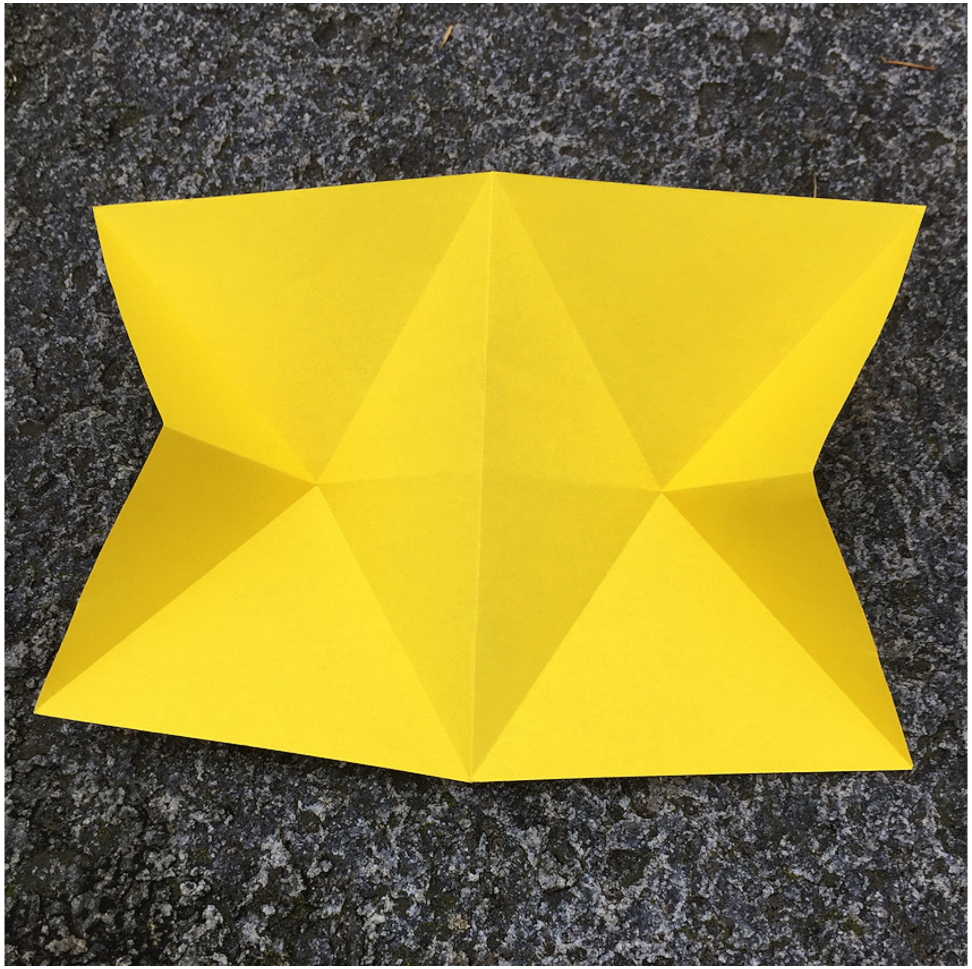
Folding a pyramid



valley fold

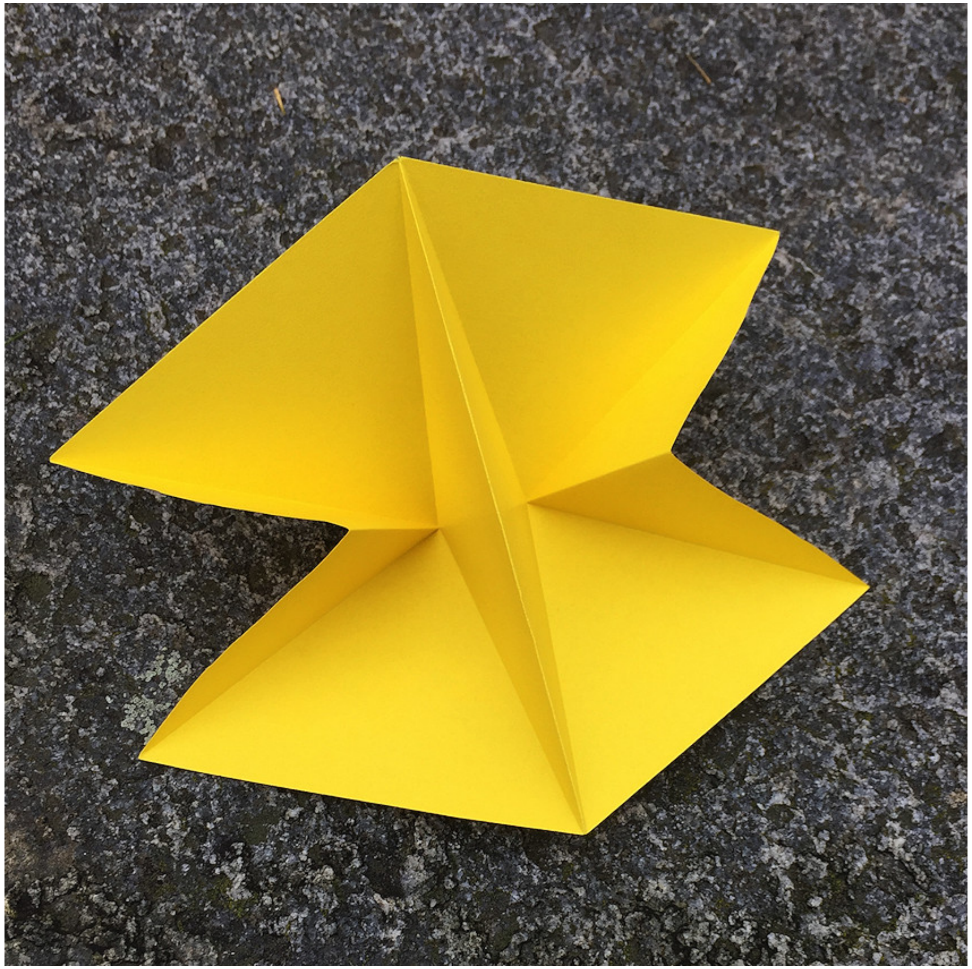
scratch with a needle point before folding

Folding a pyramid



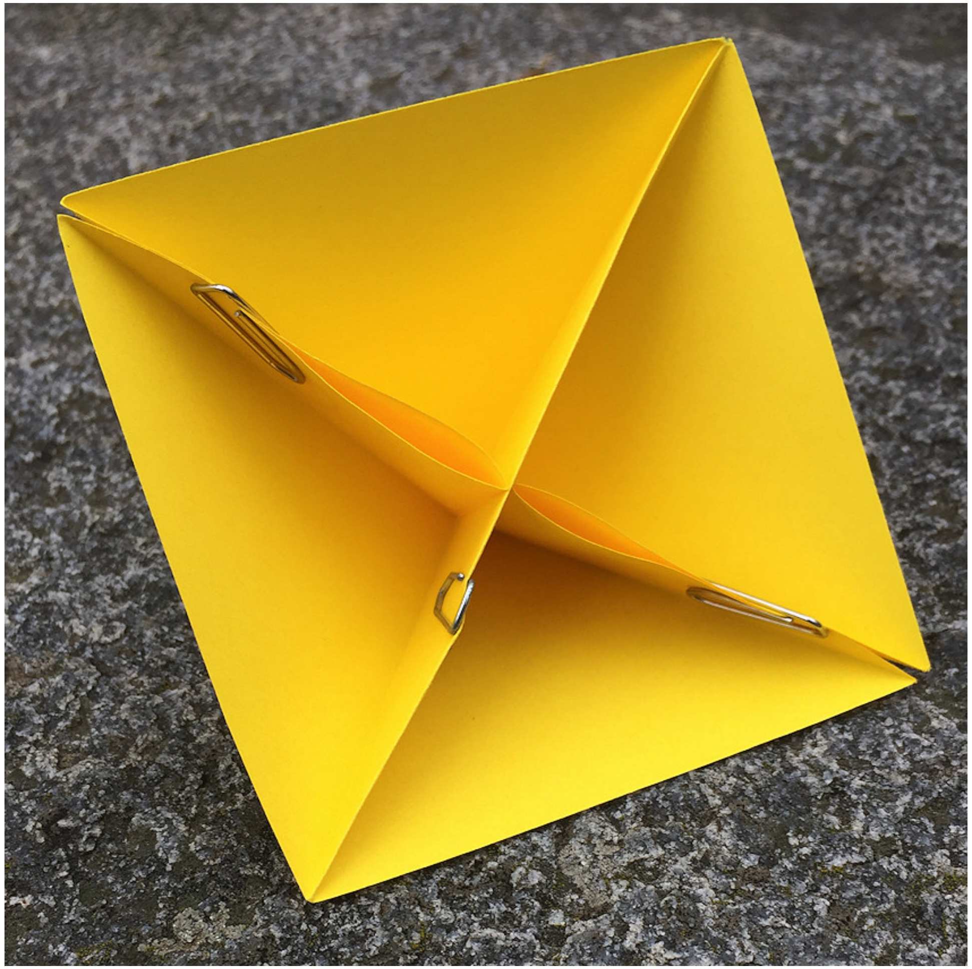
Reality

Folding a pyramid



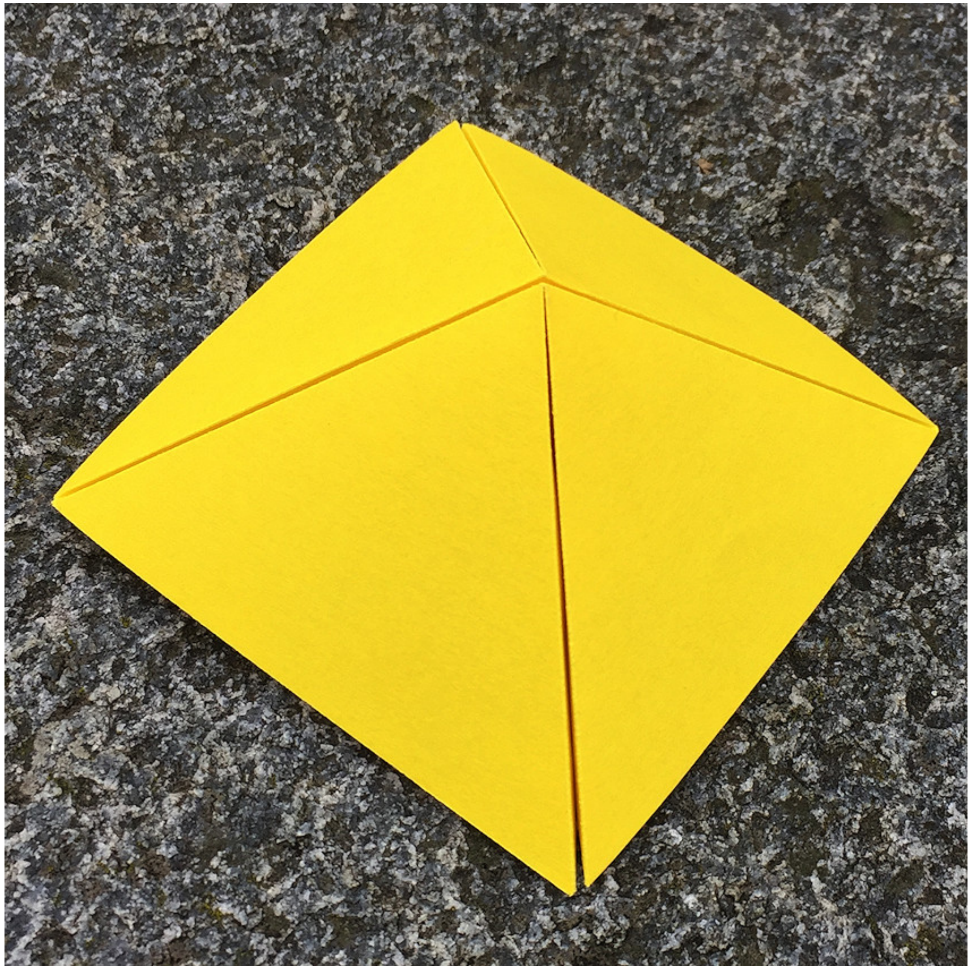
Reality

Folding a pyramid



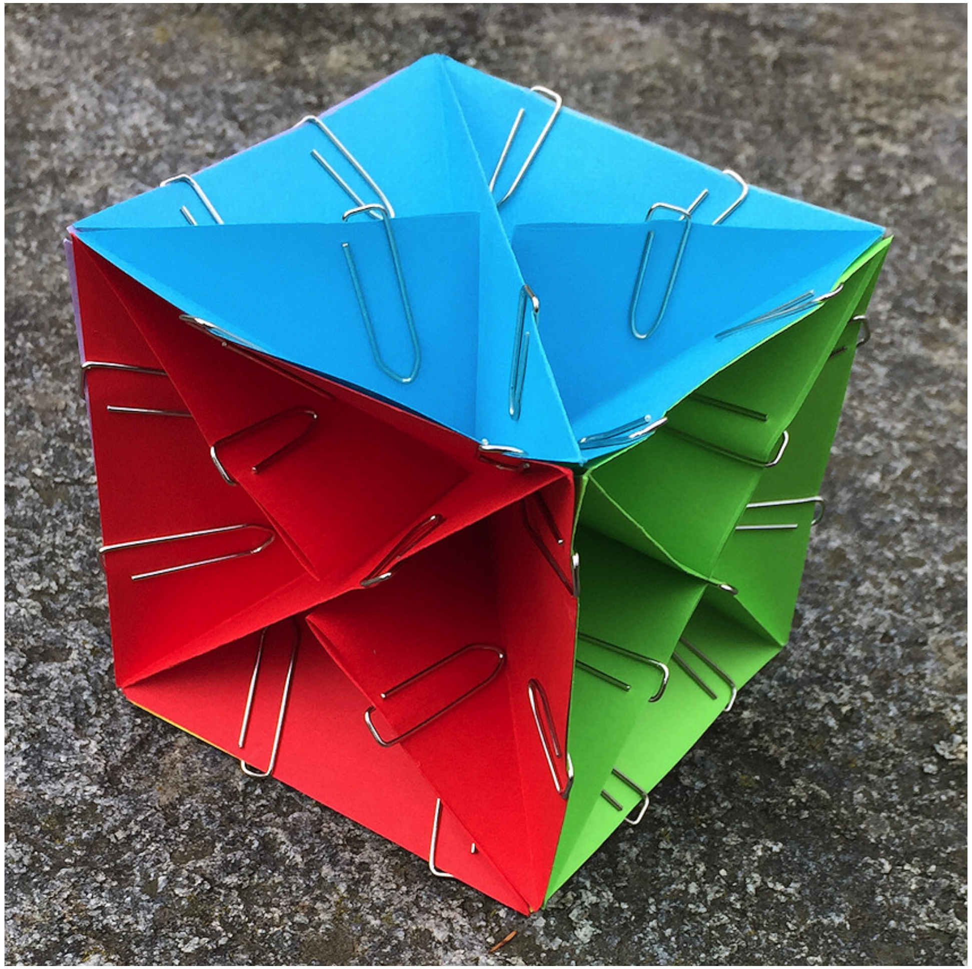
Inside of the pyramid
fixed with paper clips

Folding a pyramid



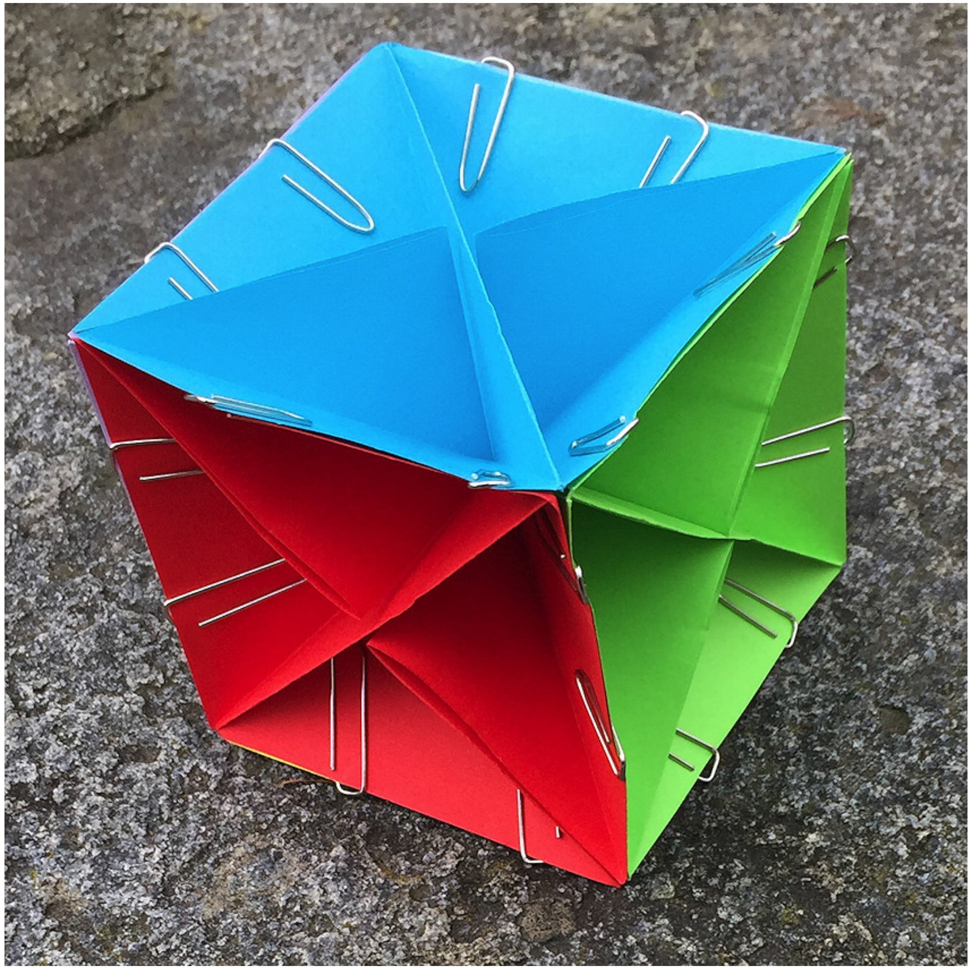
Outside of the pyramid

Assembling the cube



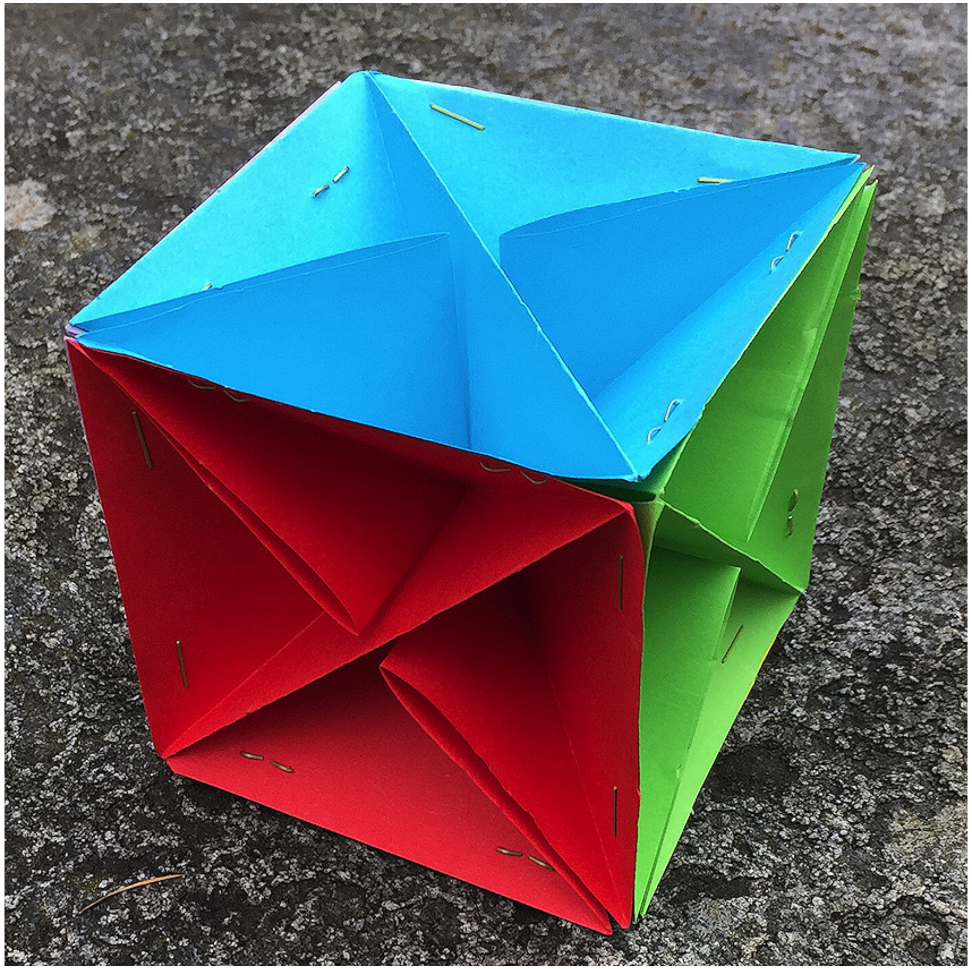
Inside of the pyramids

Assembling the cube



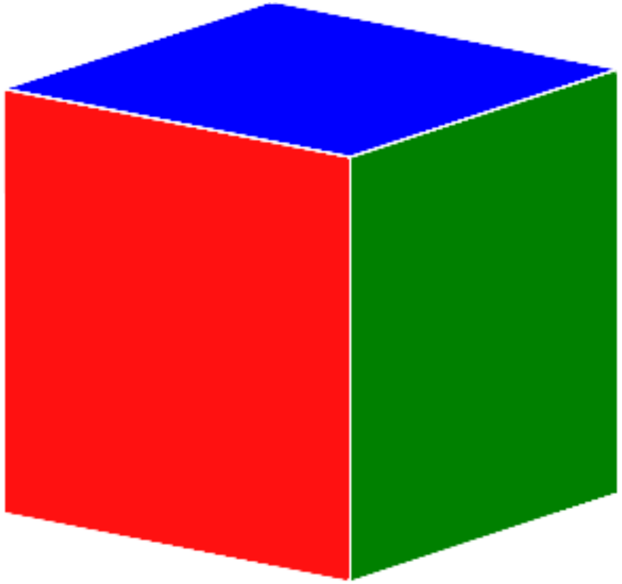
Removing the inner paper clips

Assembling the cube

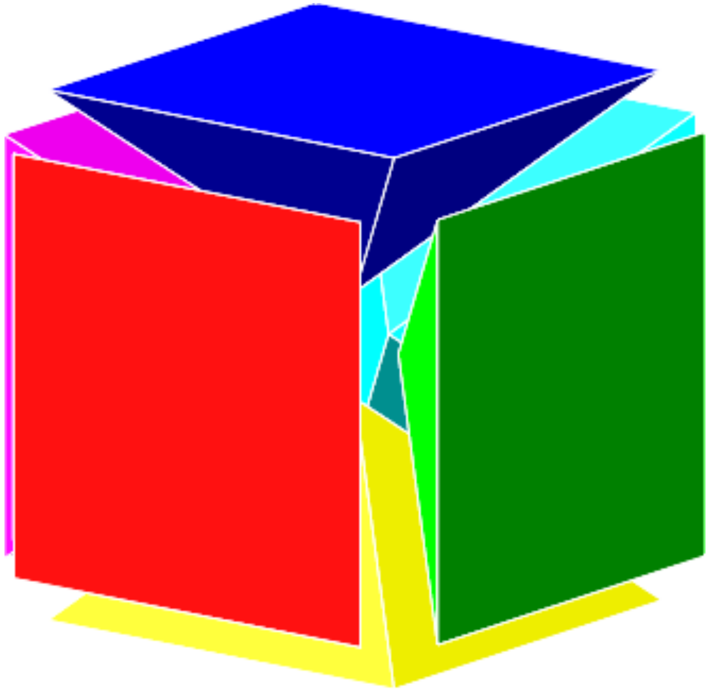


Replacing paper clips with staples

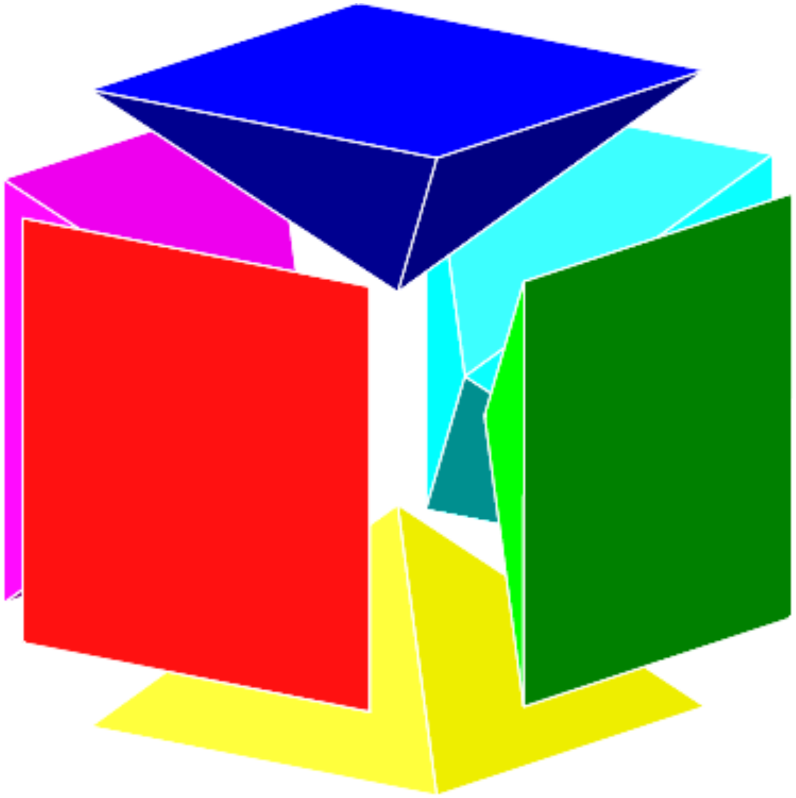
Cube made from six pyramids



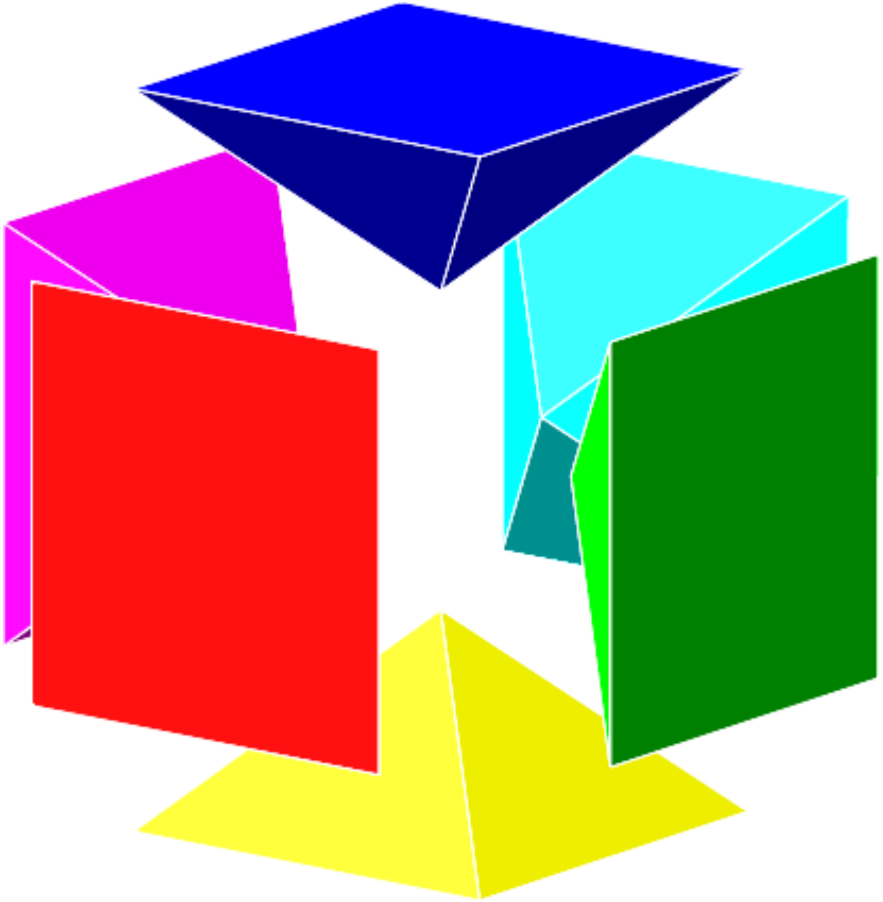
Cube made from six pyramids



Cube made from six pyramids

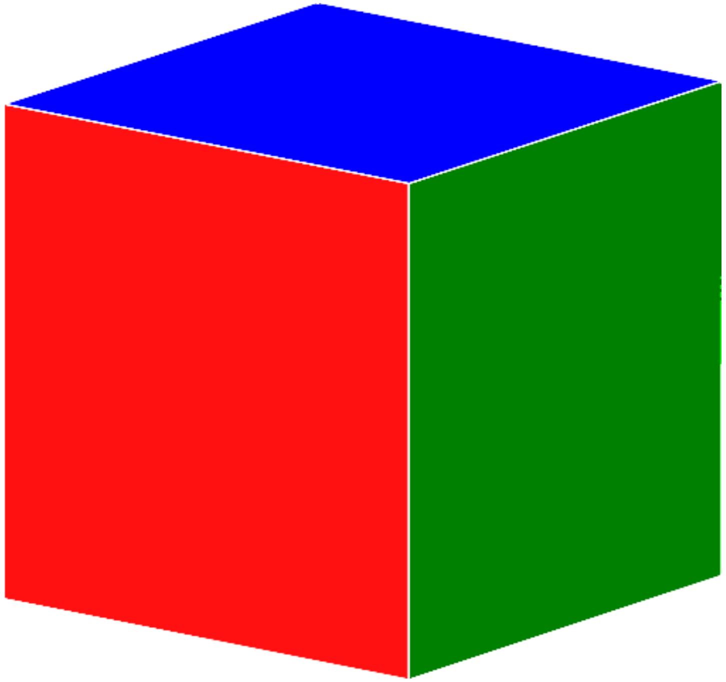


Cube made from six pyramids



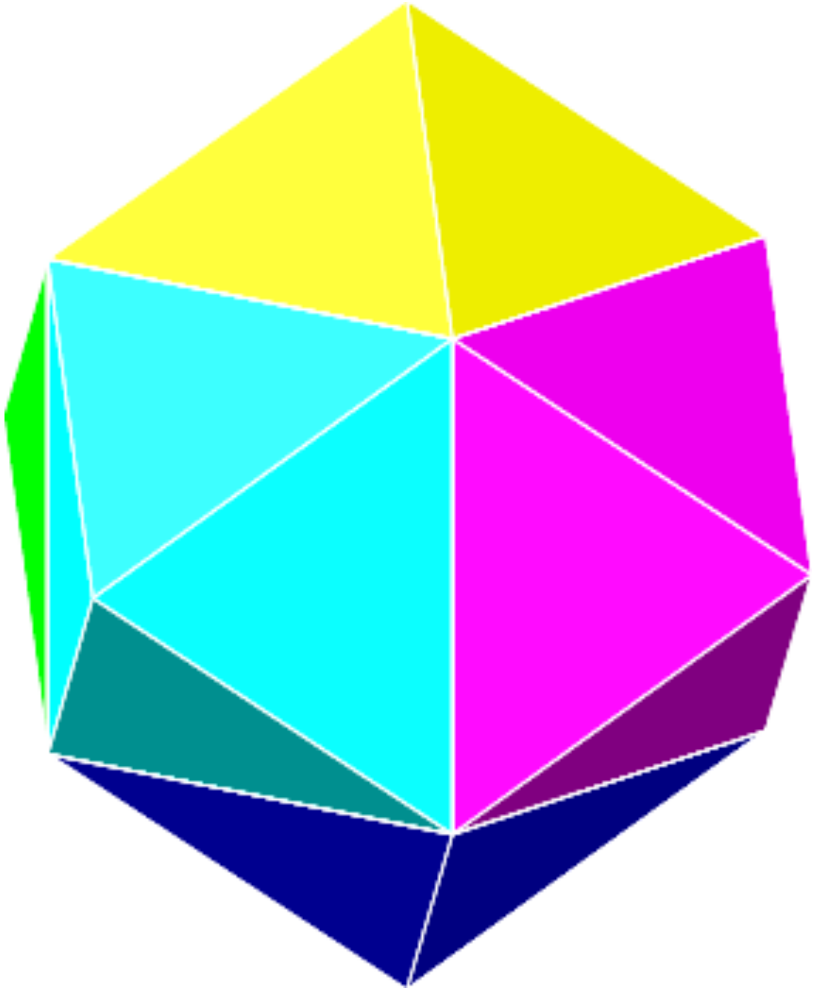
Movie

Special cases of the movie



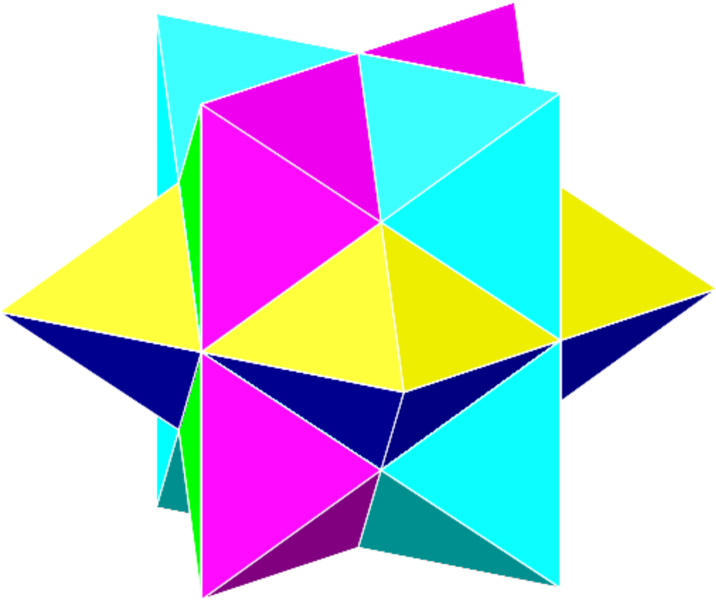
Cube
]

Special cases of the movie



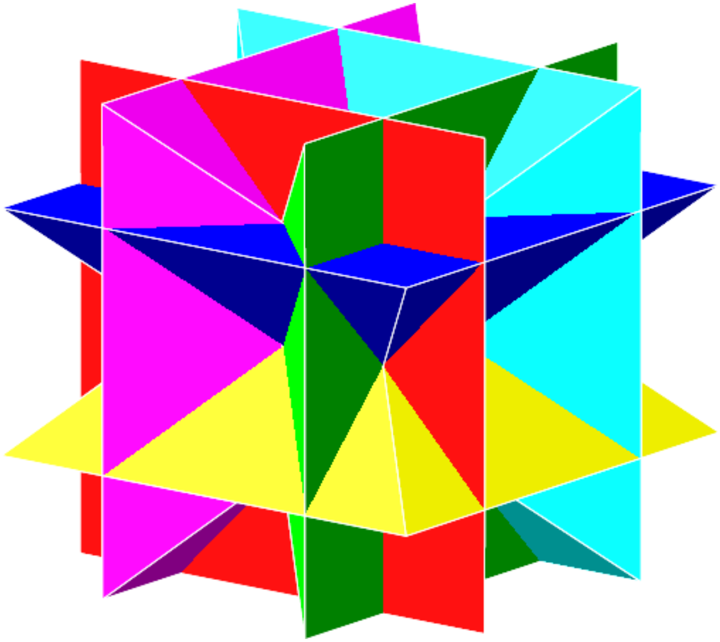
Rhombic dodecahedron (with cubic hole inside)

Special cases of the movie



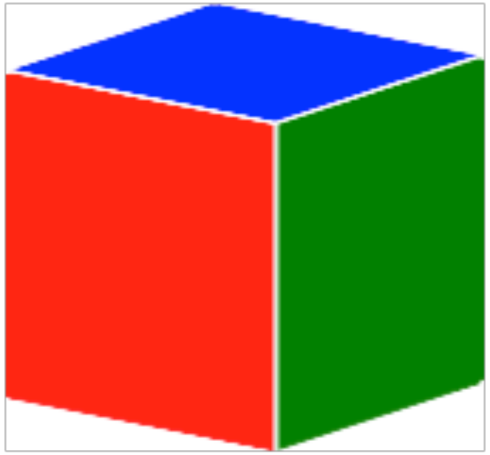
Star

Special cases of the movie



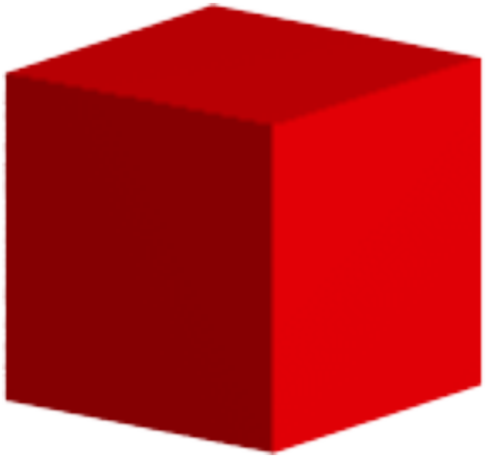
Kind of star

Cube

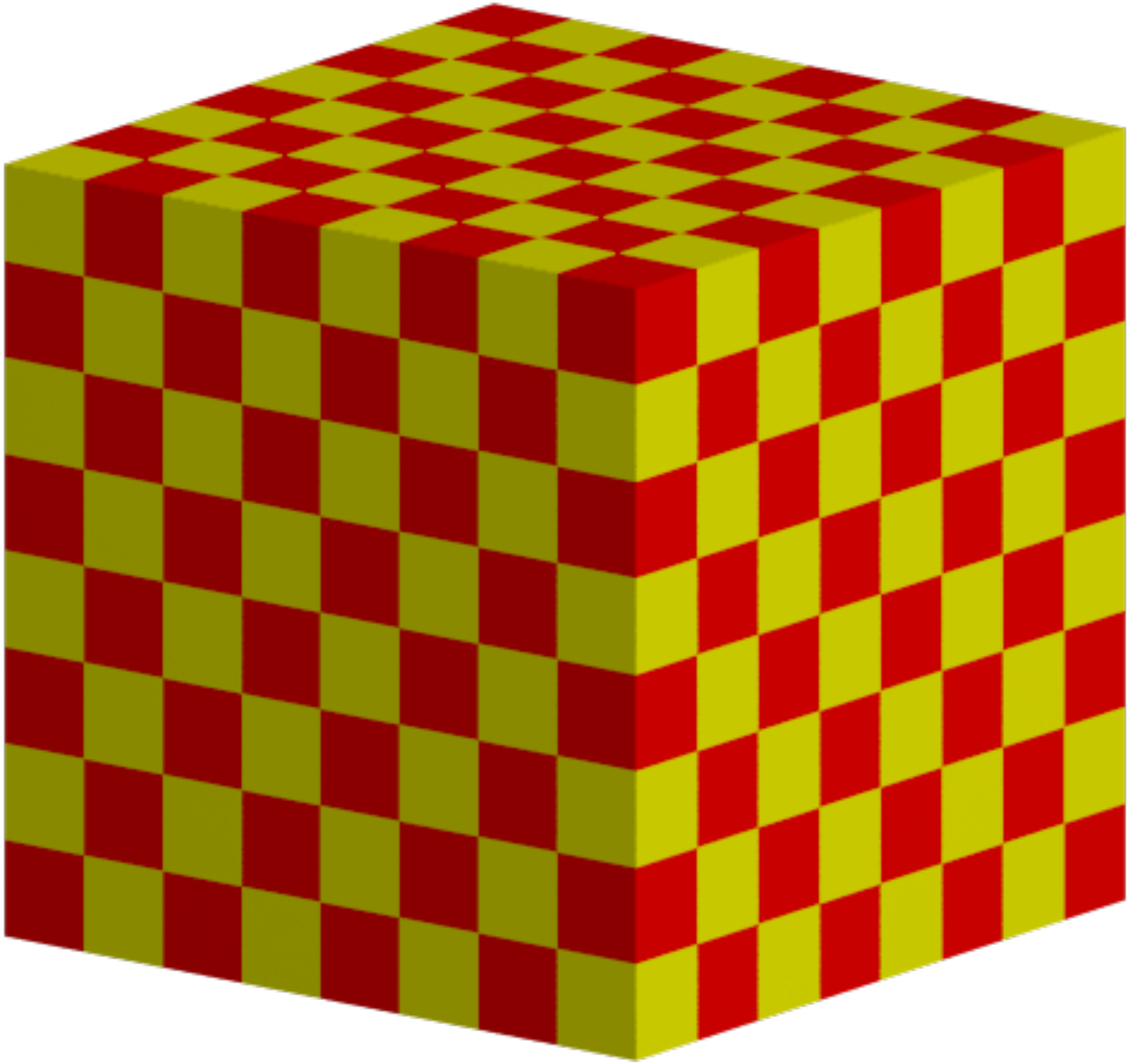


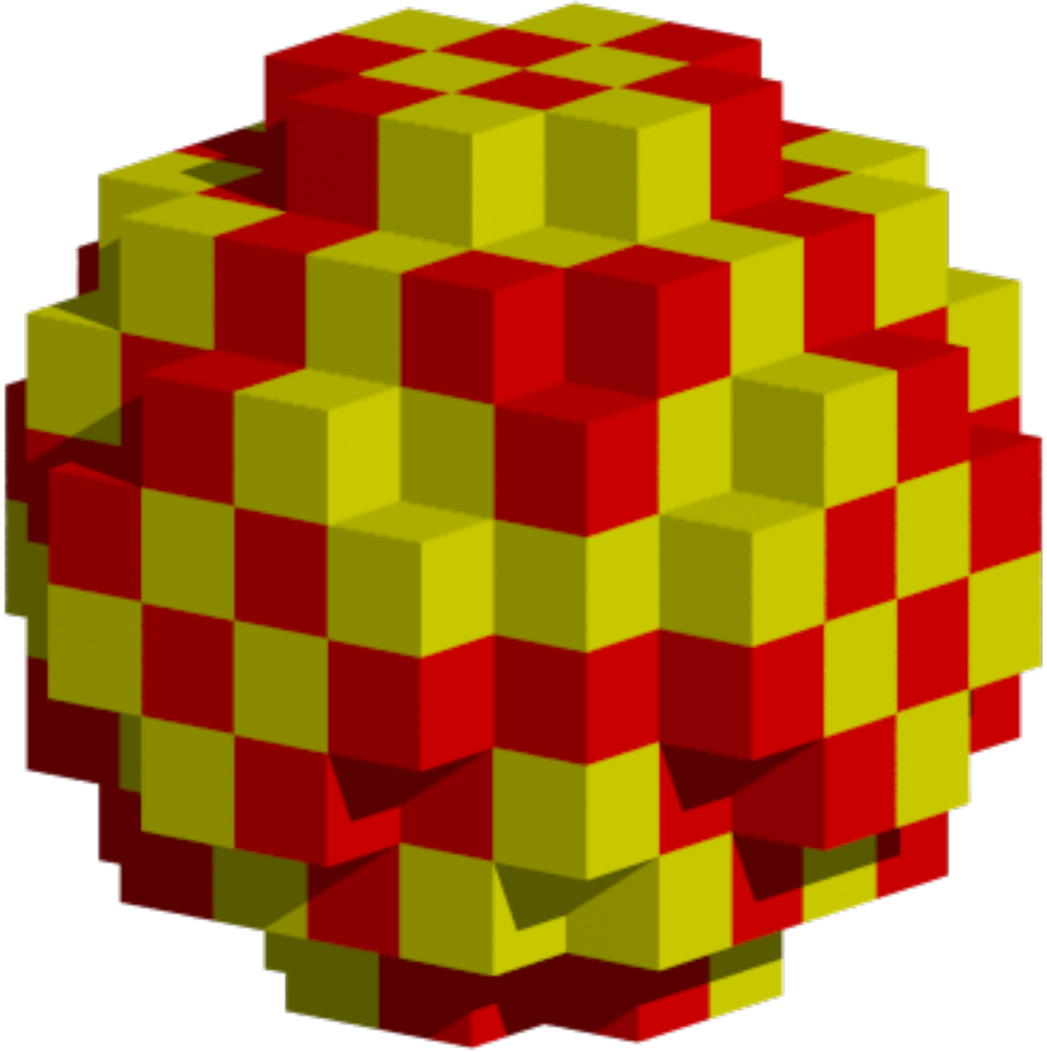
Spacefiller

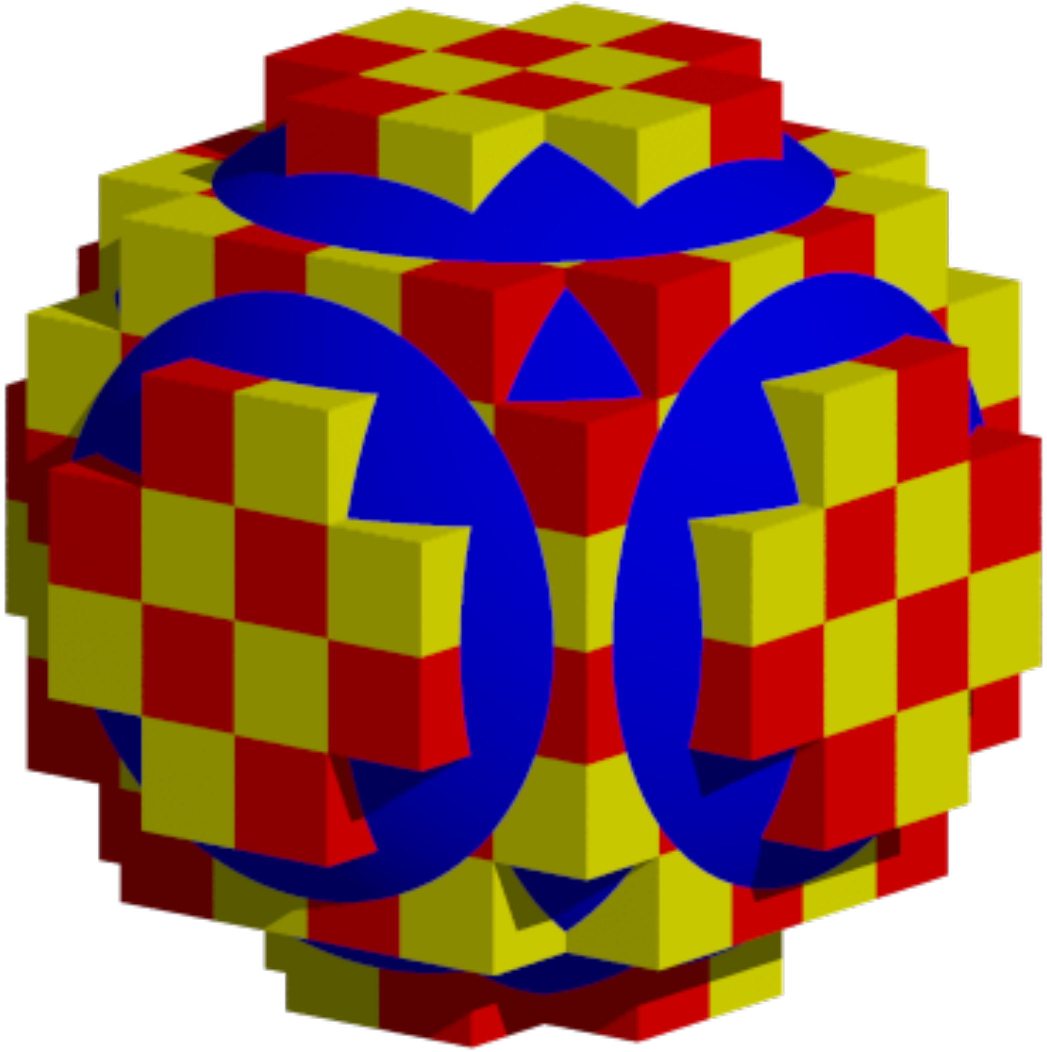
Cube

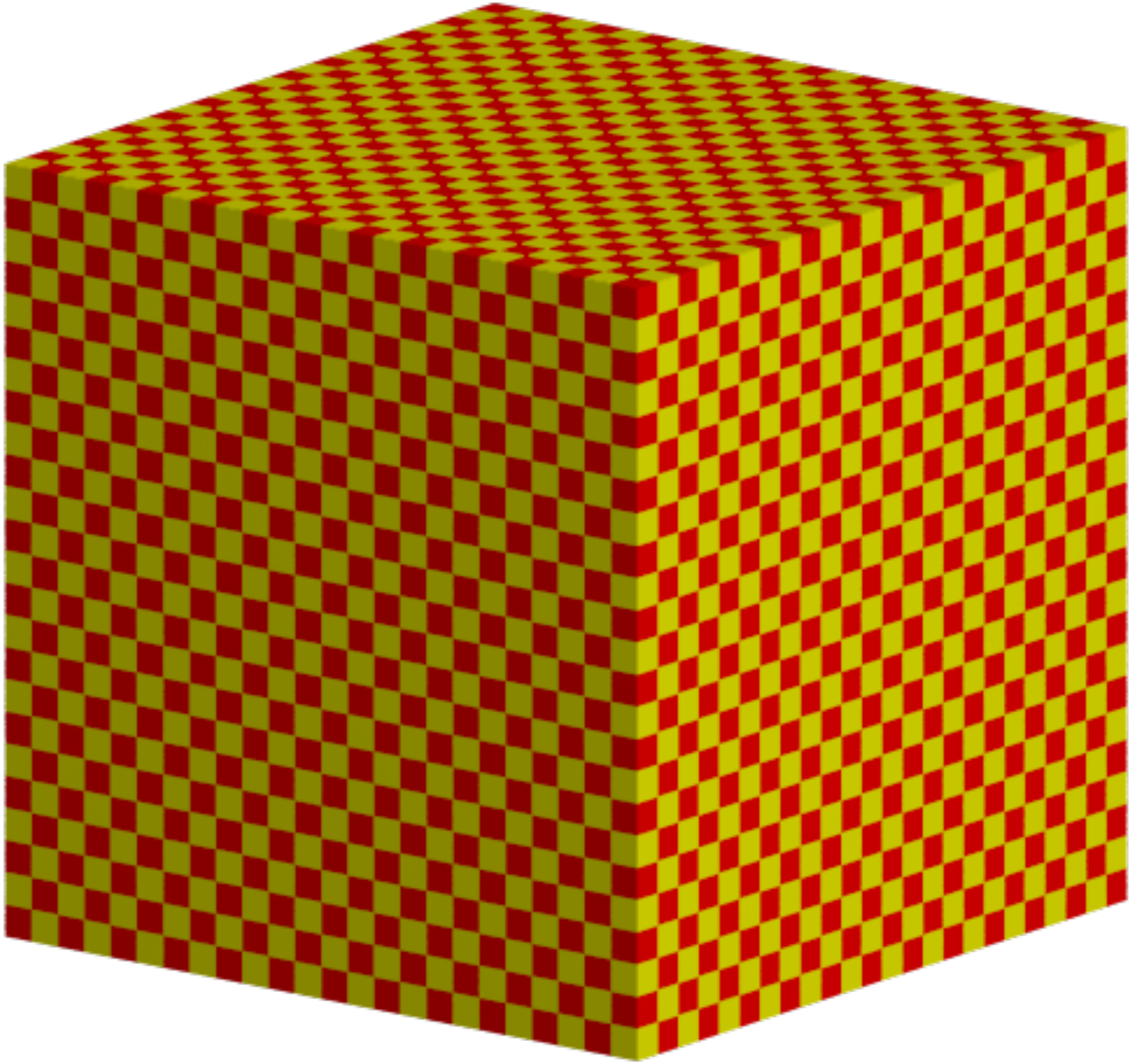


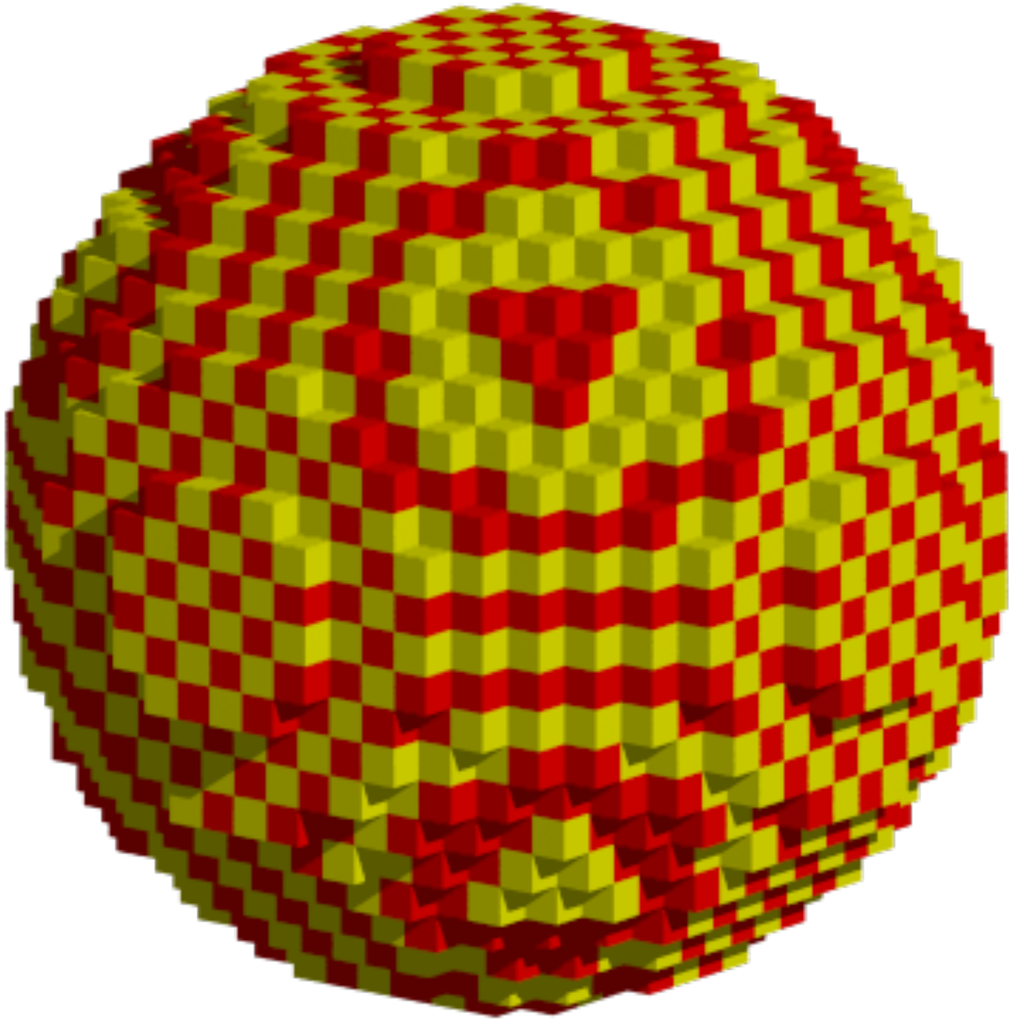
Spacefiller

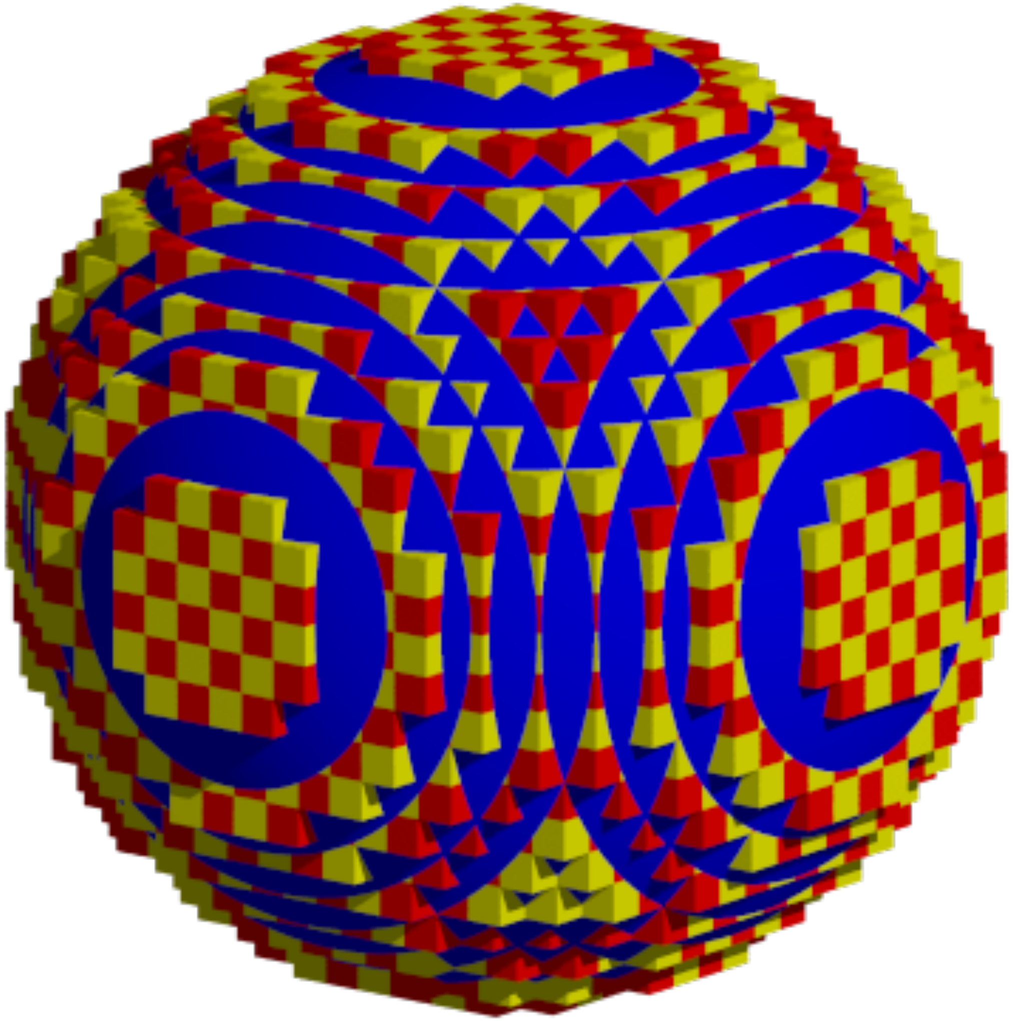




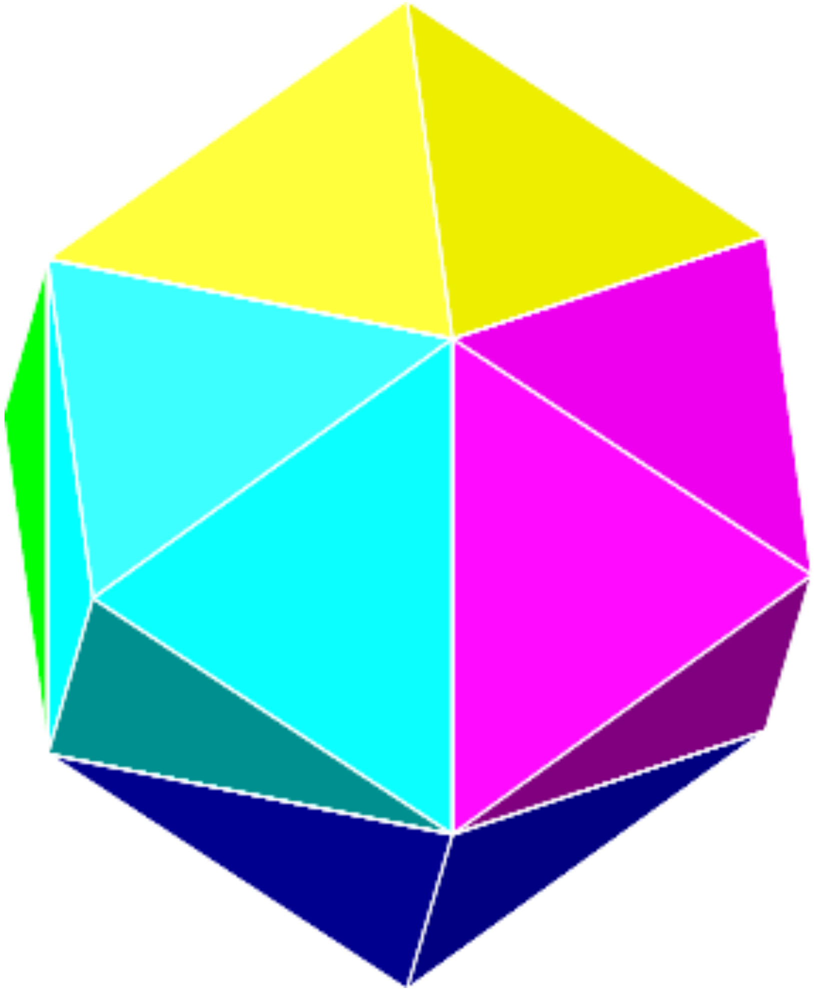






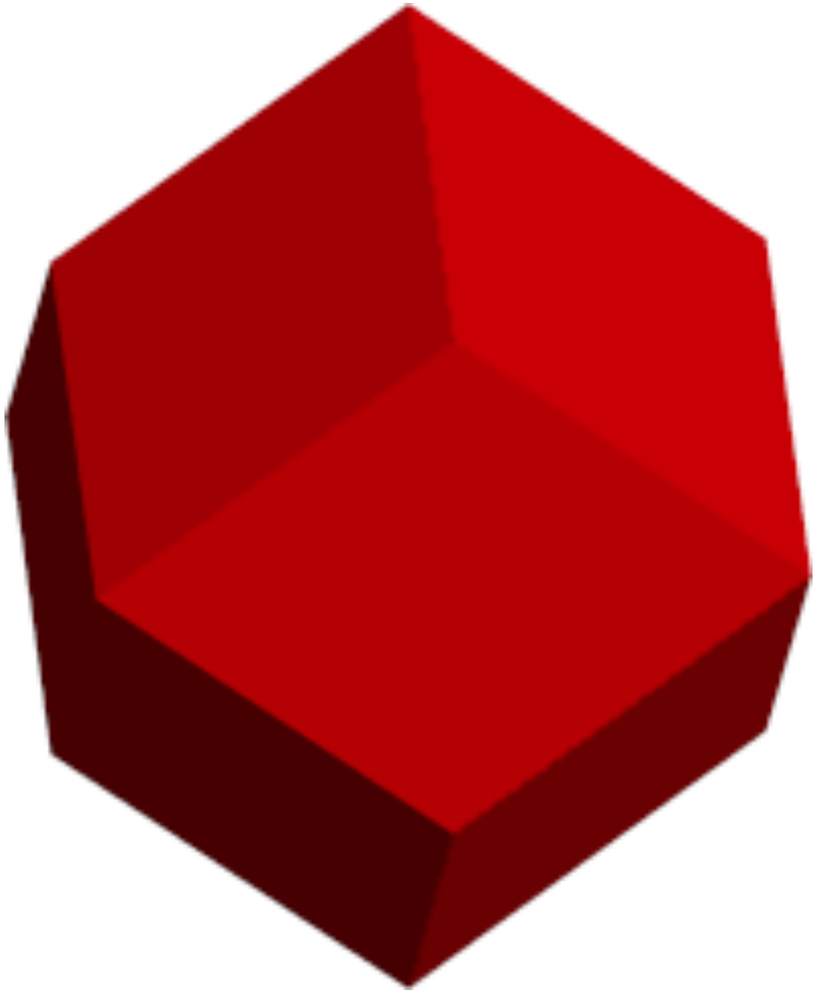


Rhombic dodecahedron



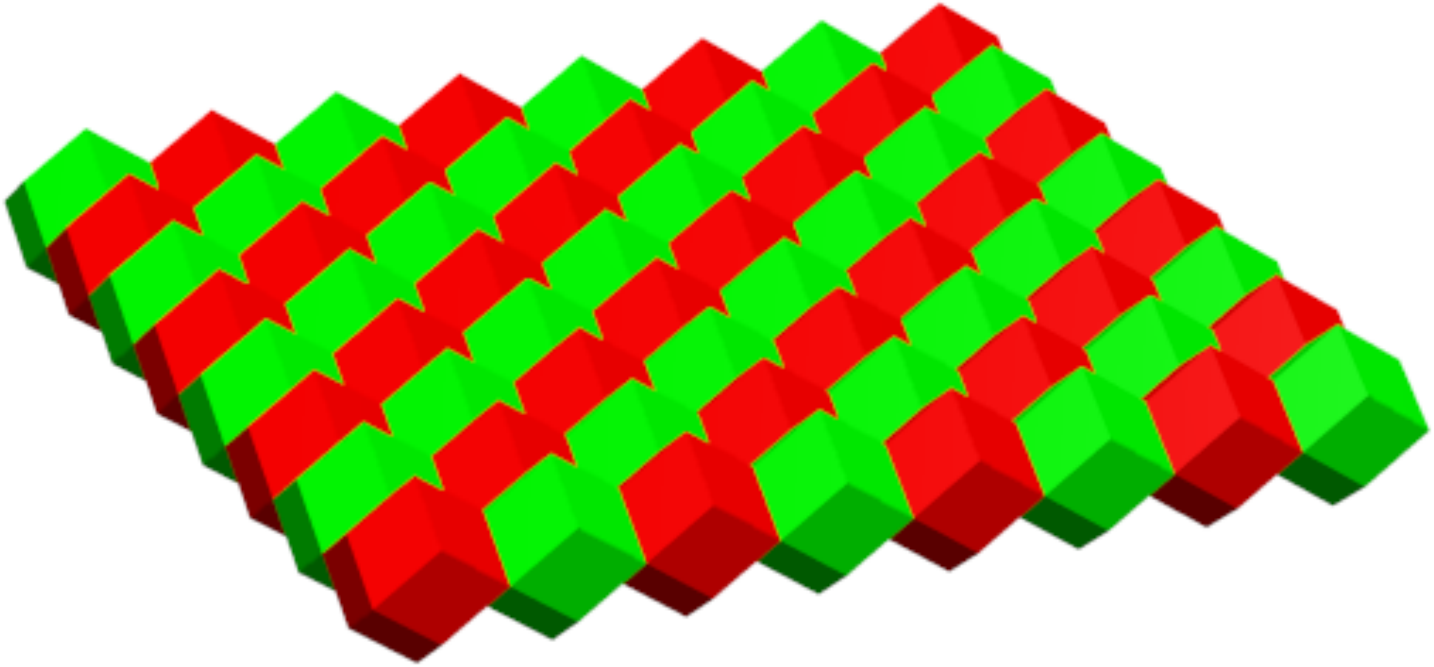
Spacefiller

Rhombic dodecahedron

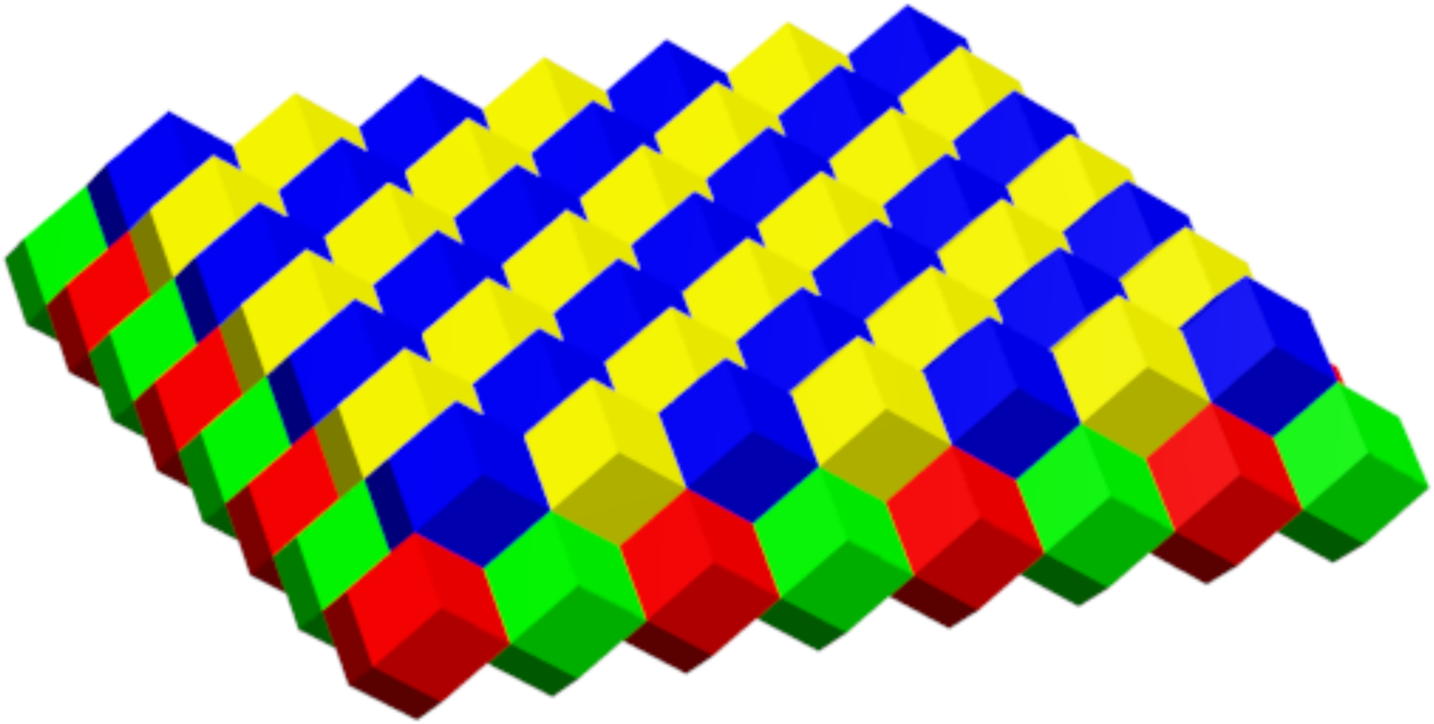


Spacefiller

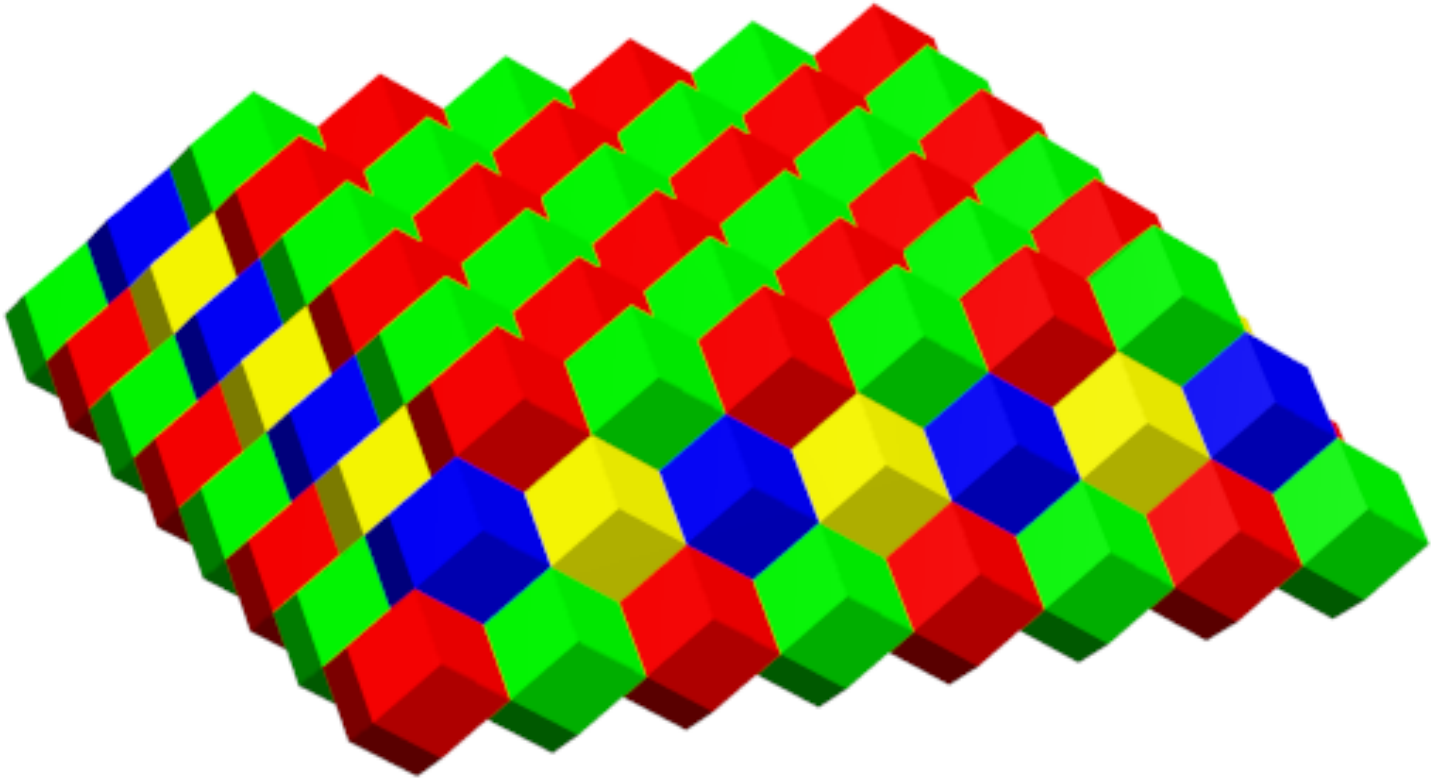
Rhombic dodecahedron



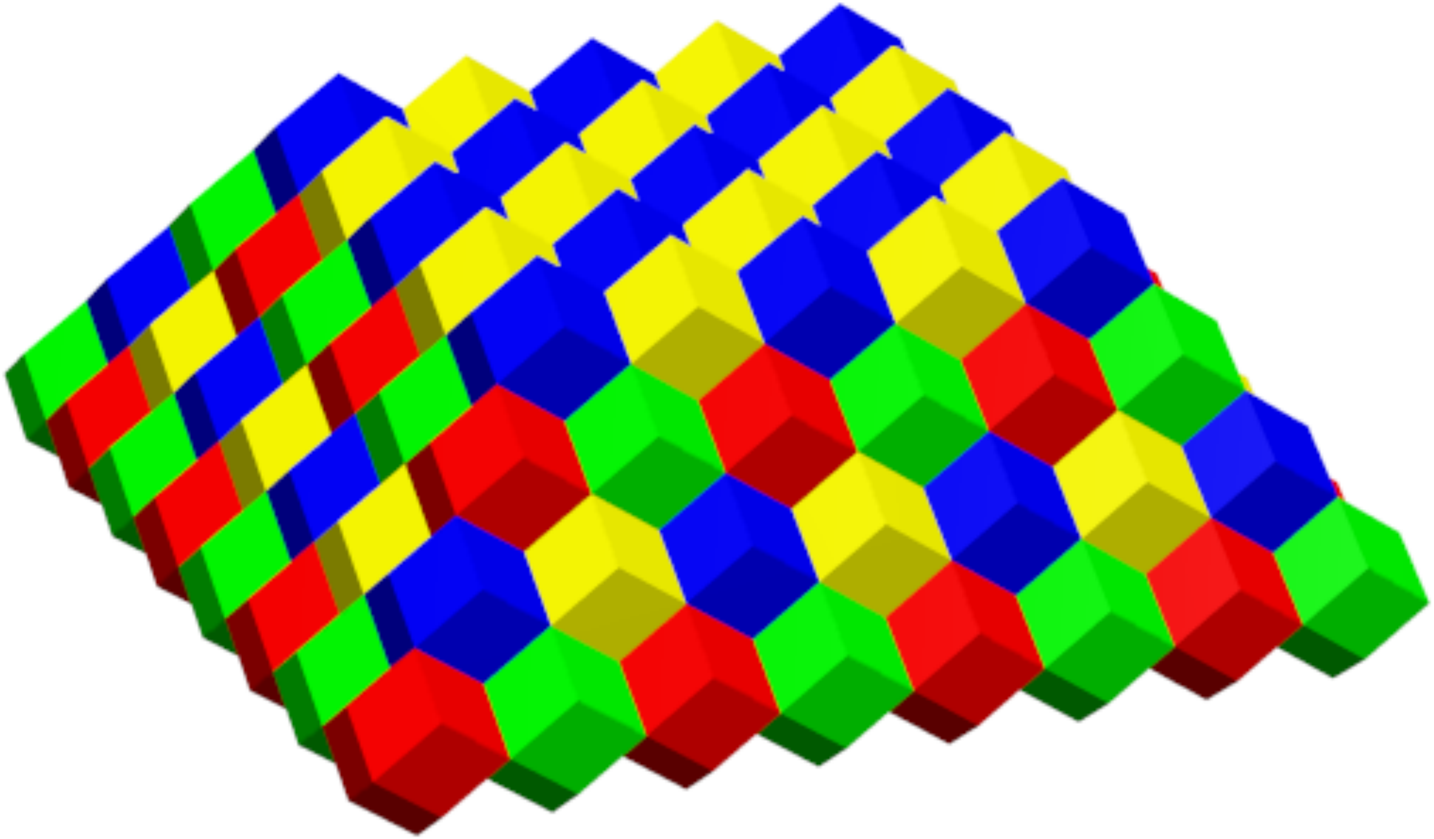
Rhombic dodecahedron



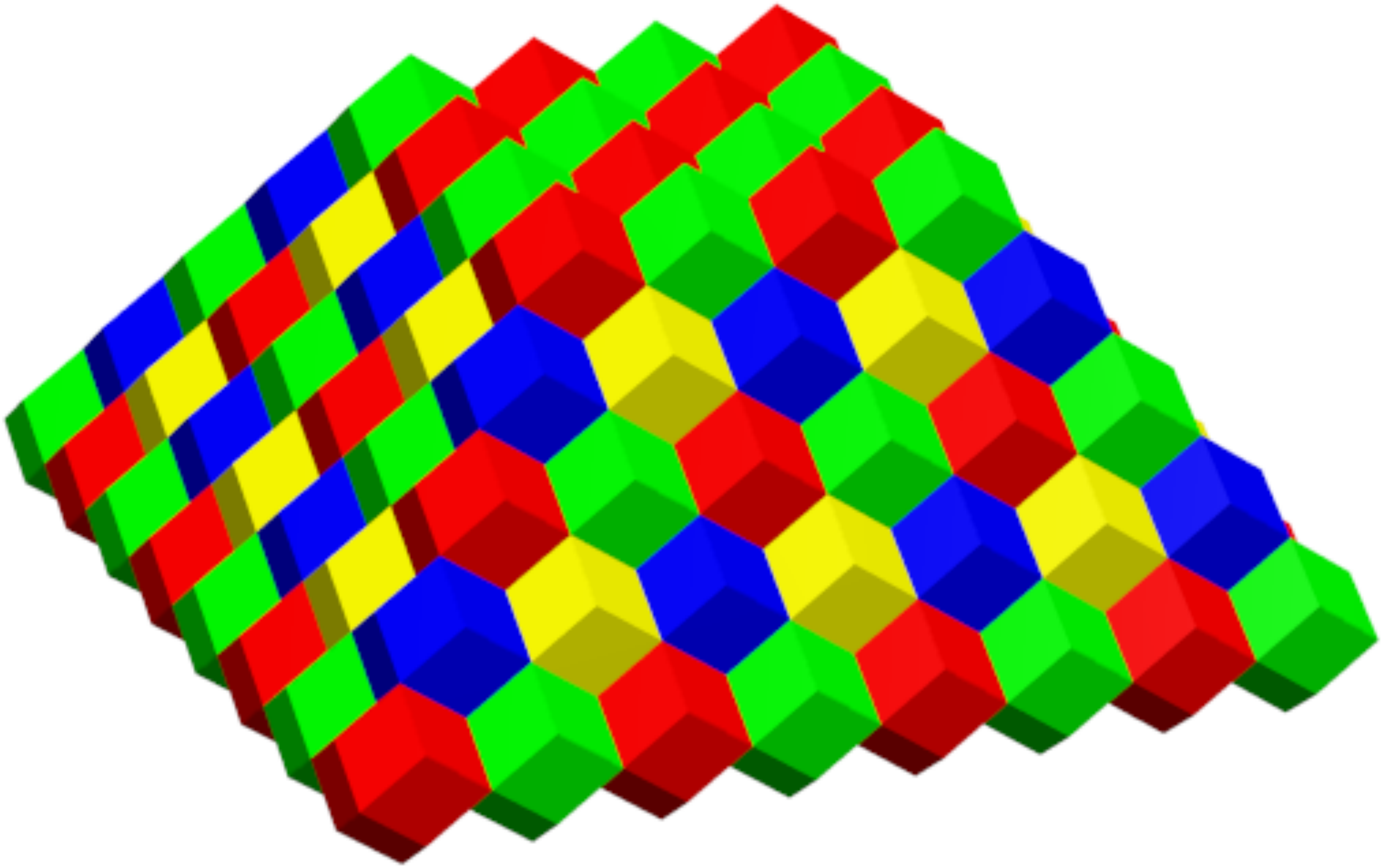
Rhombic dodecahedron



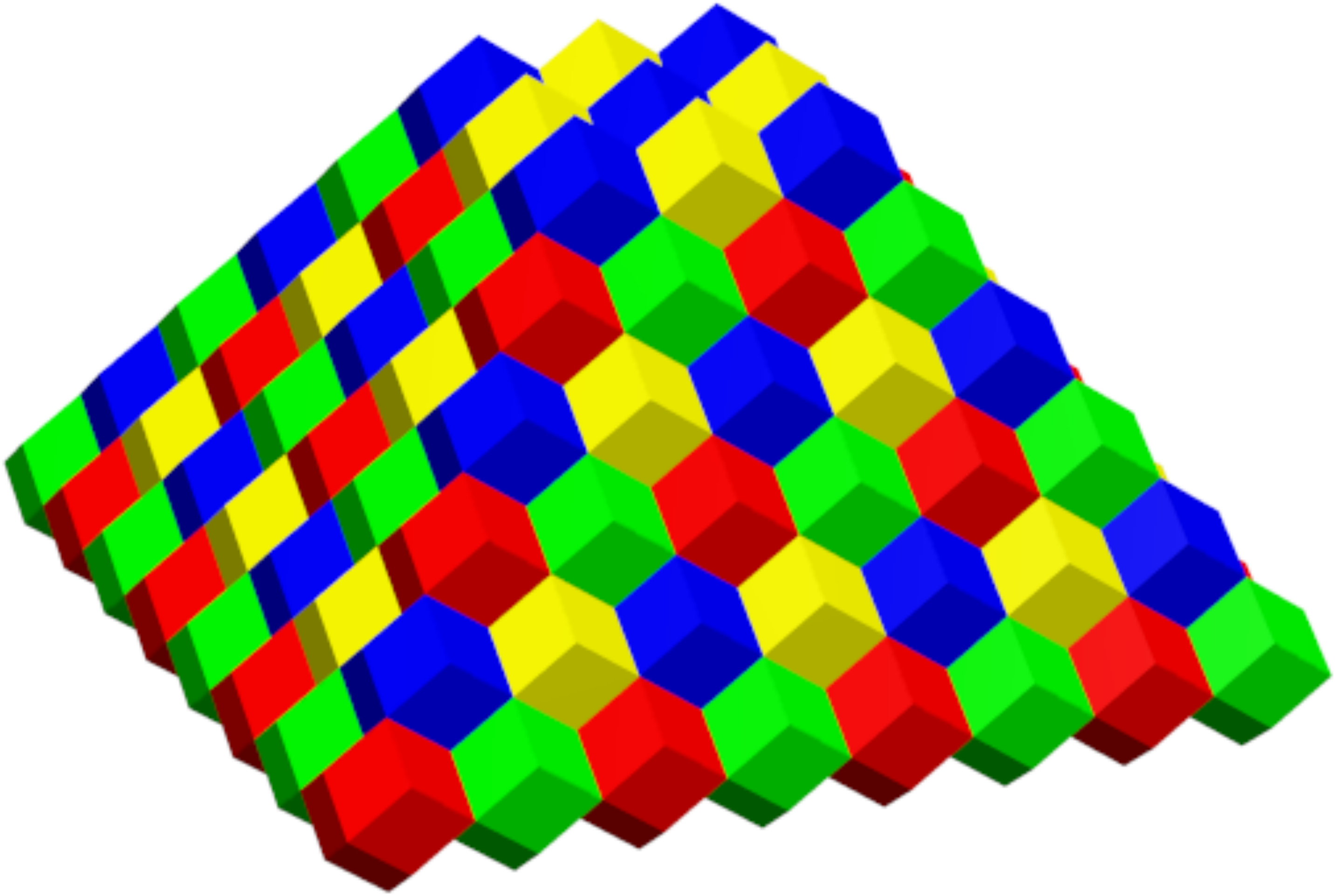
Rhombic dodecahedron



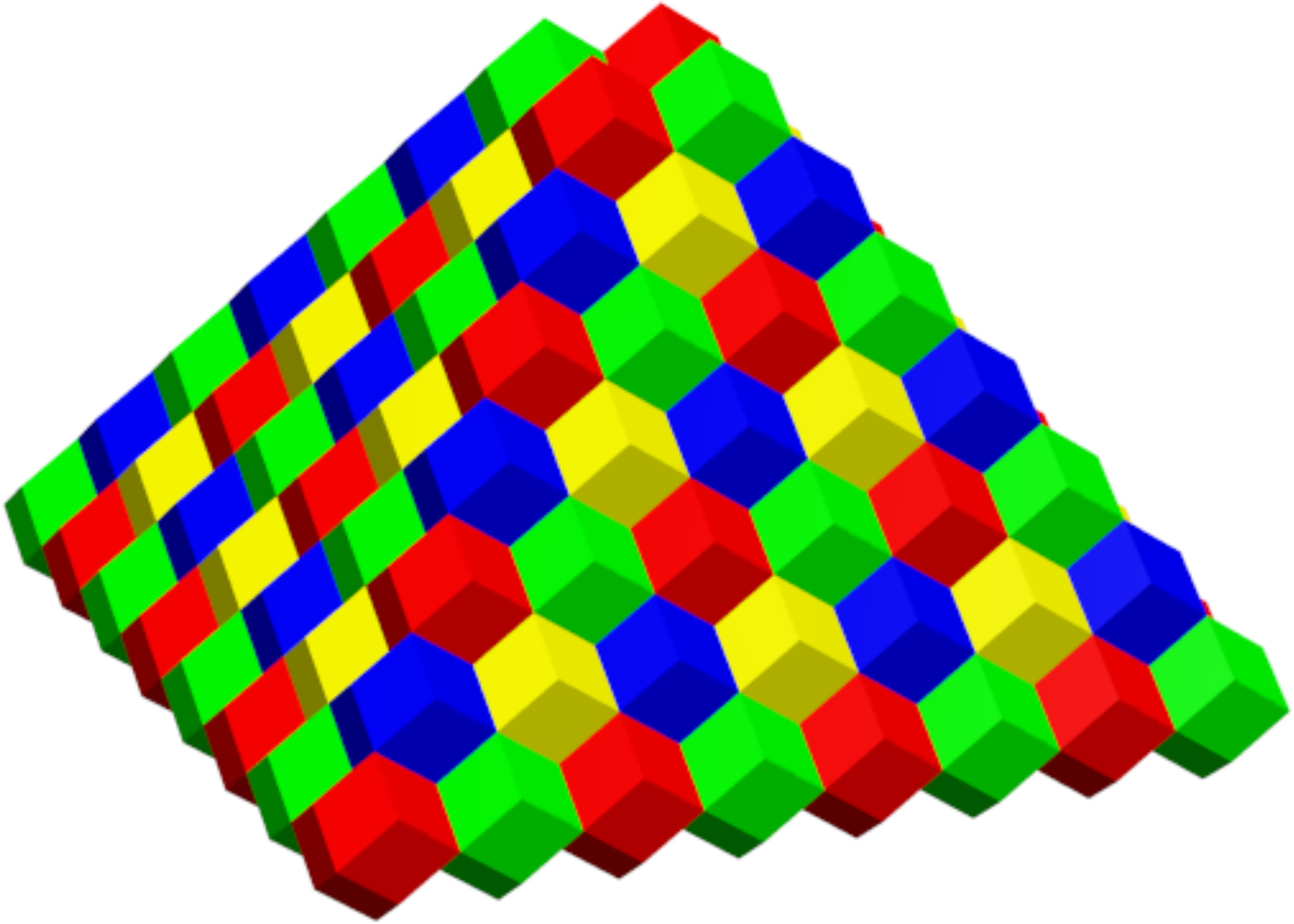
Rhombic dodecahedron



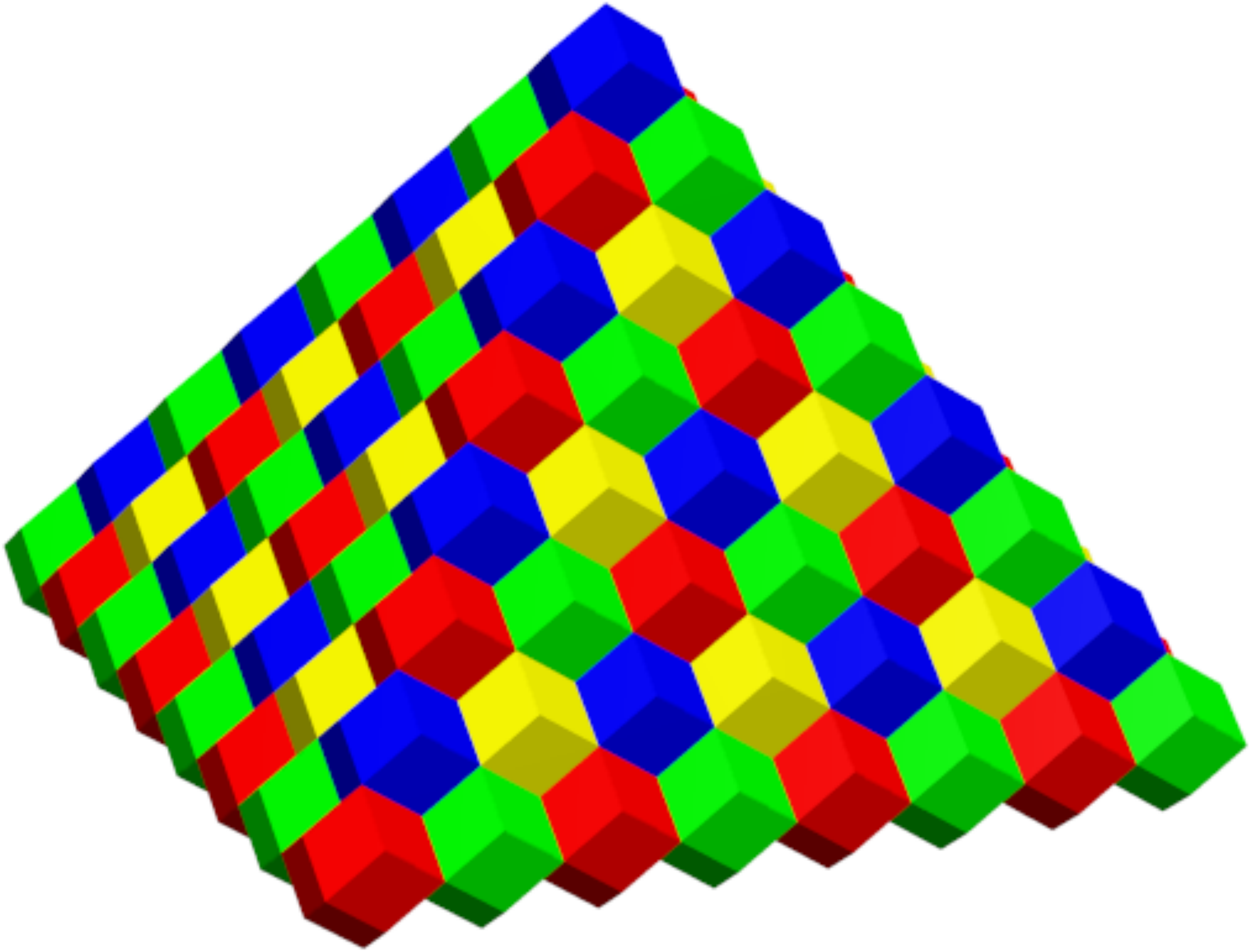
Rhombic dodecahedron

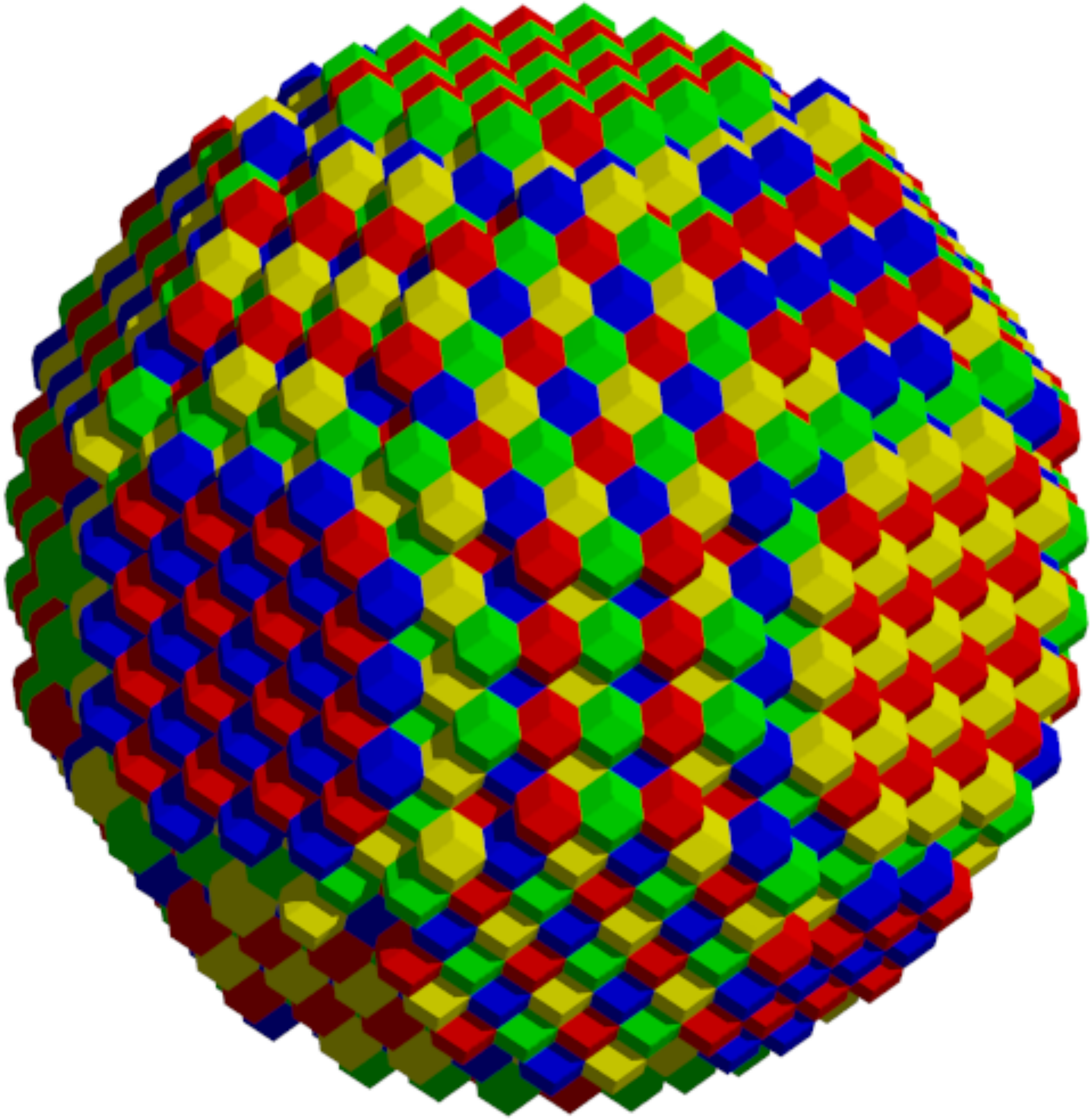


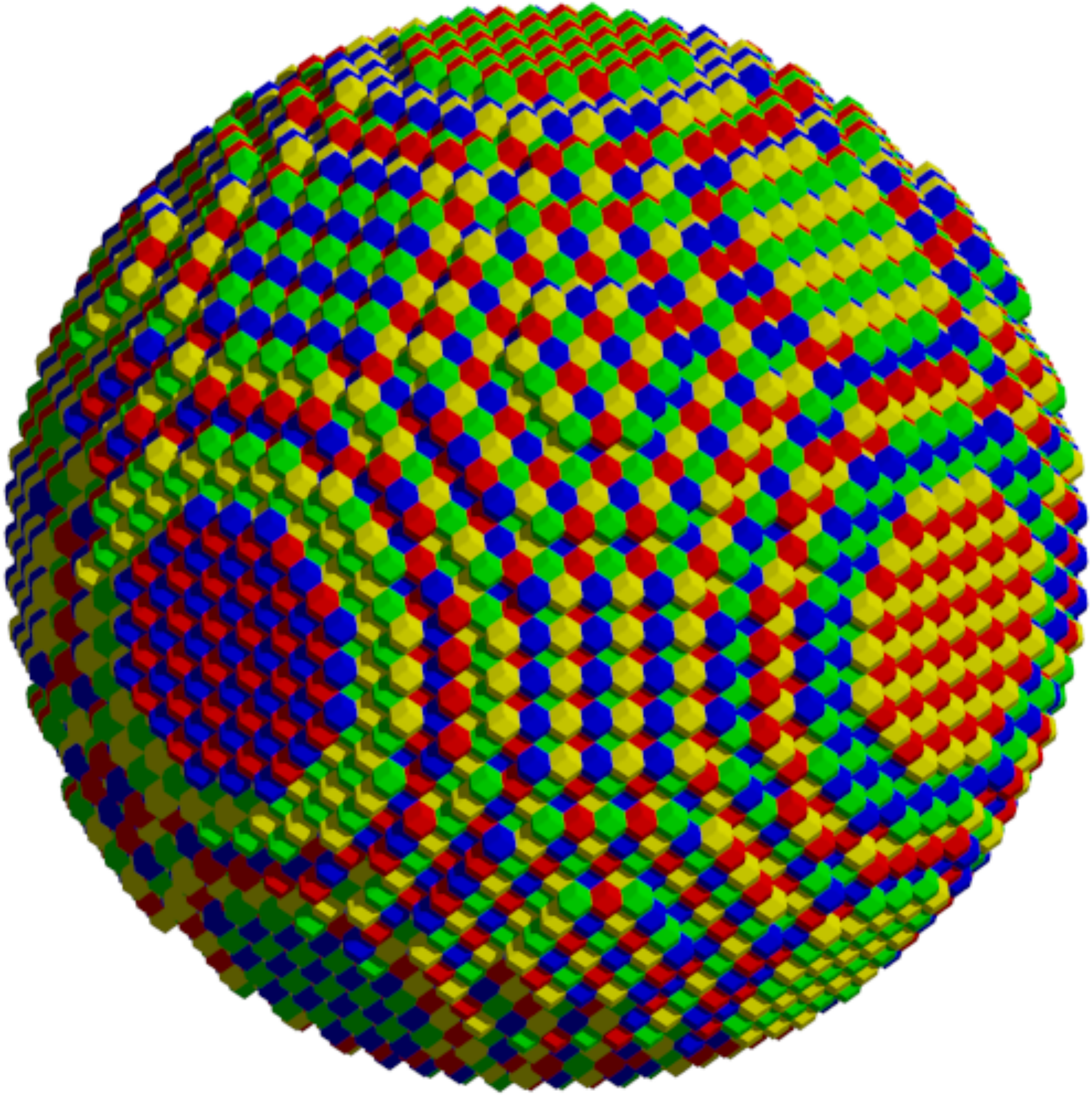
Rhombic dodecahedron



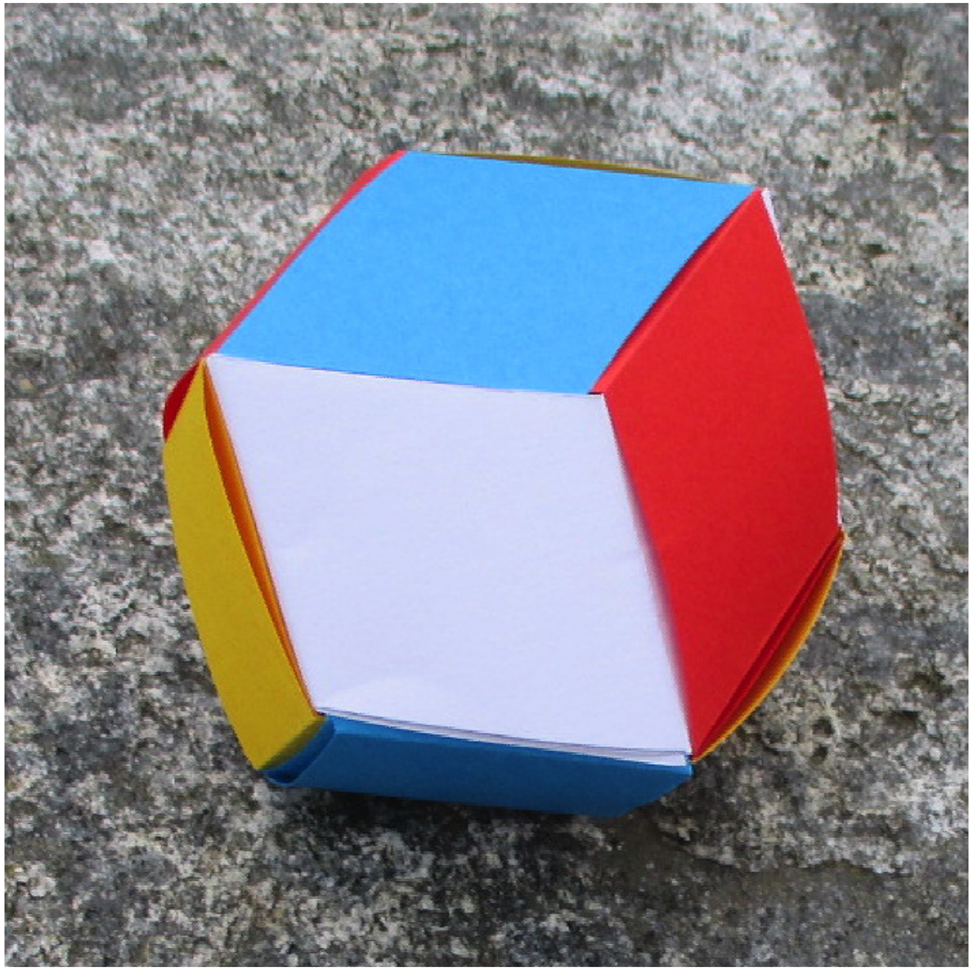
Rhombic dodecahedron





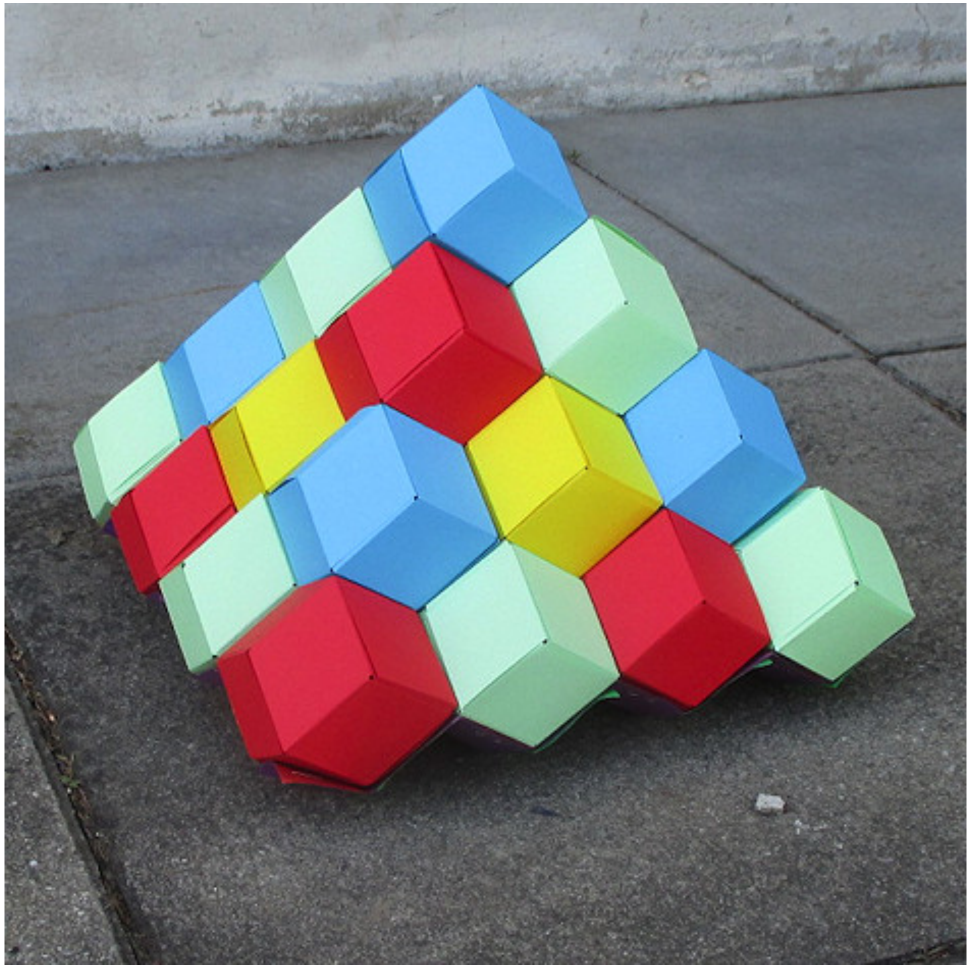


Rhombic dodecahedron



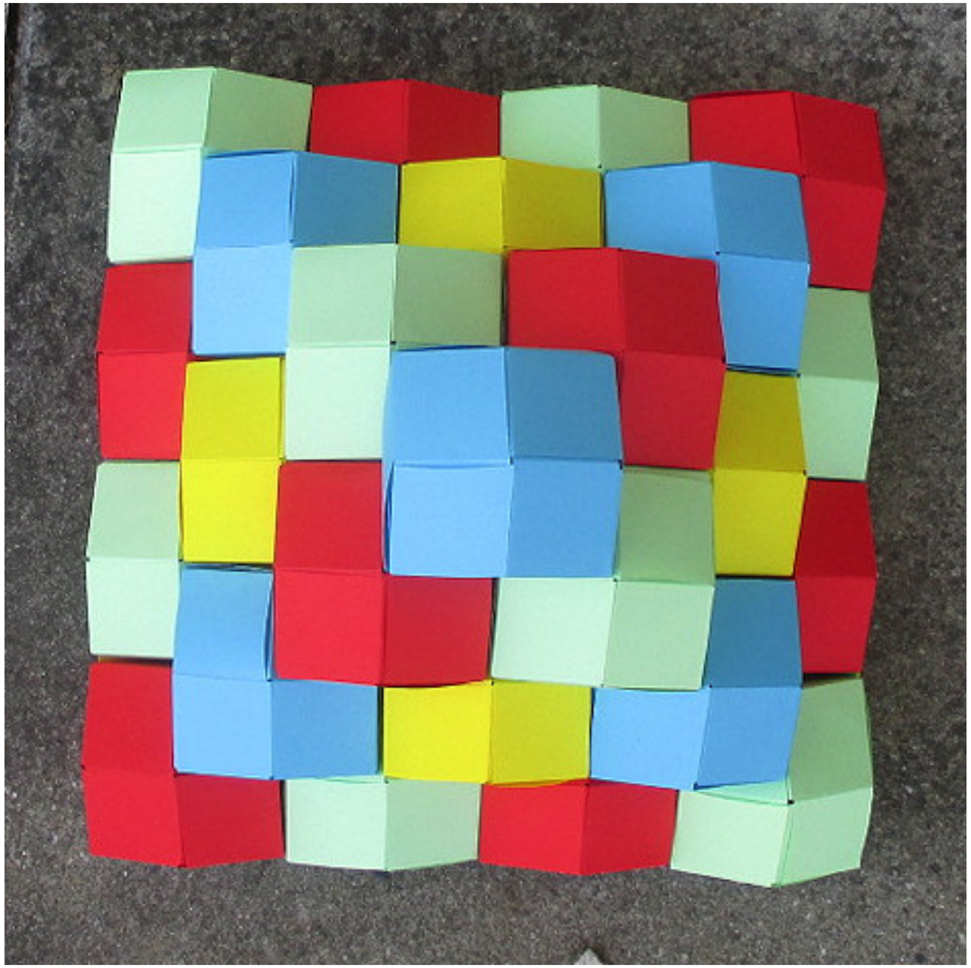
Spacefiller

Rhombic dodecahedron



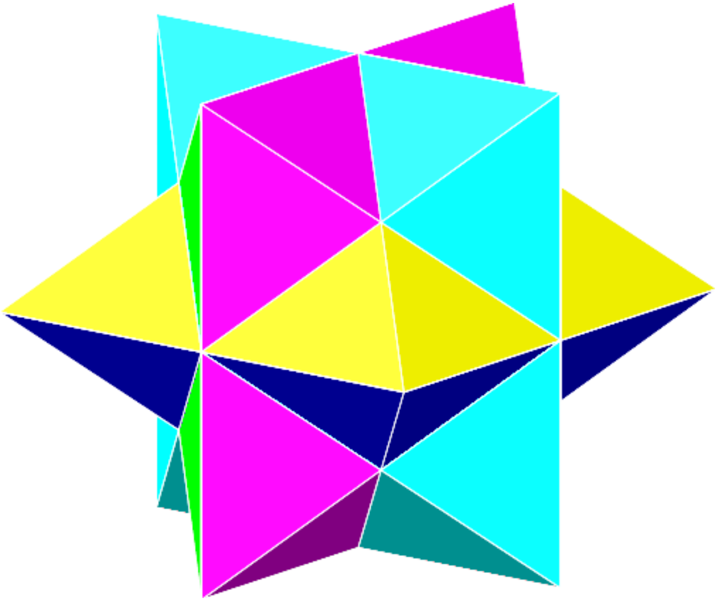
Spacefiller

Rhombic dodecahedron



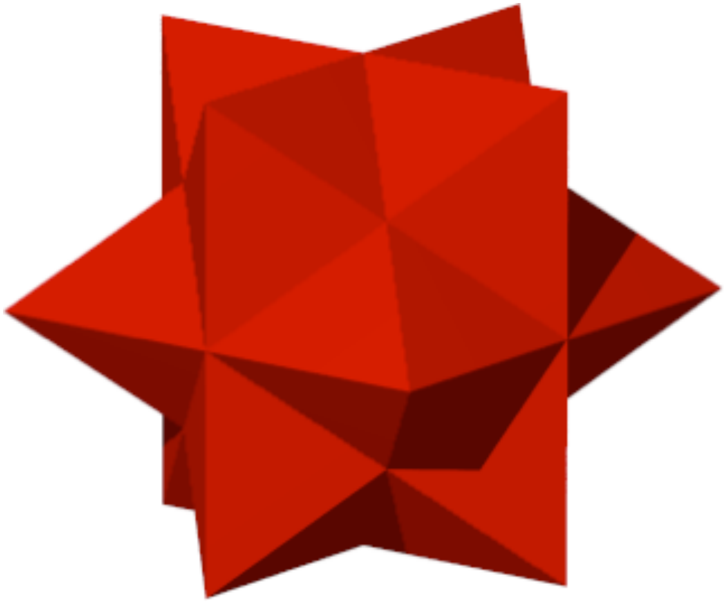
seen from above

Star

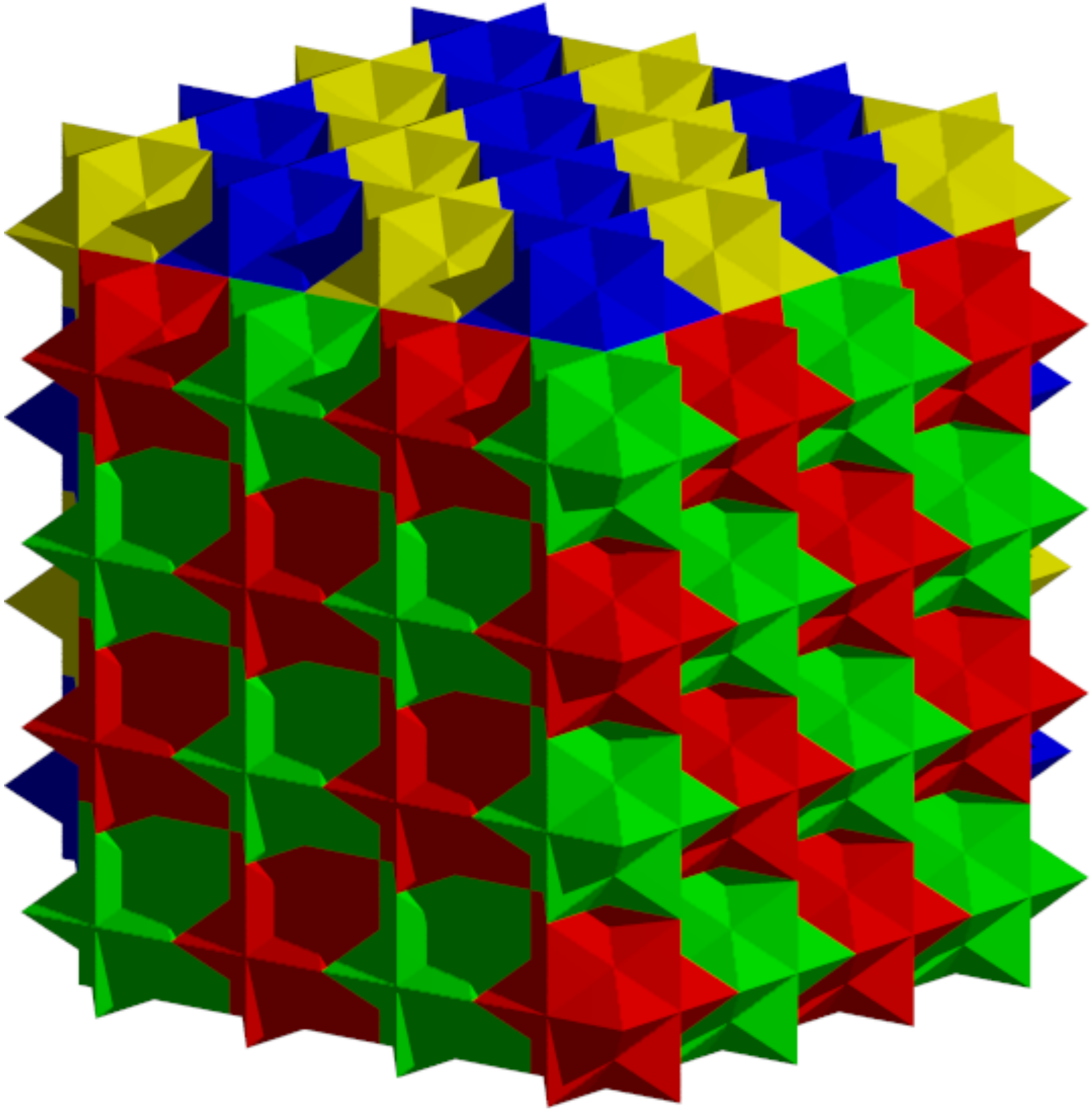


Spacefiller

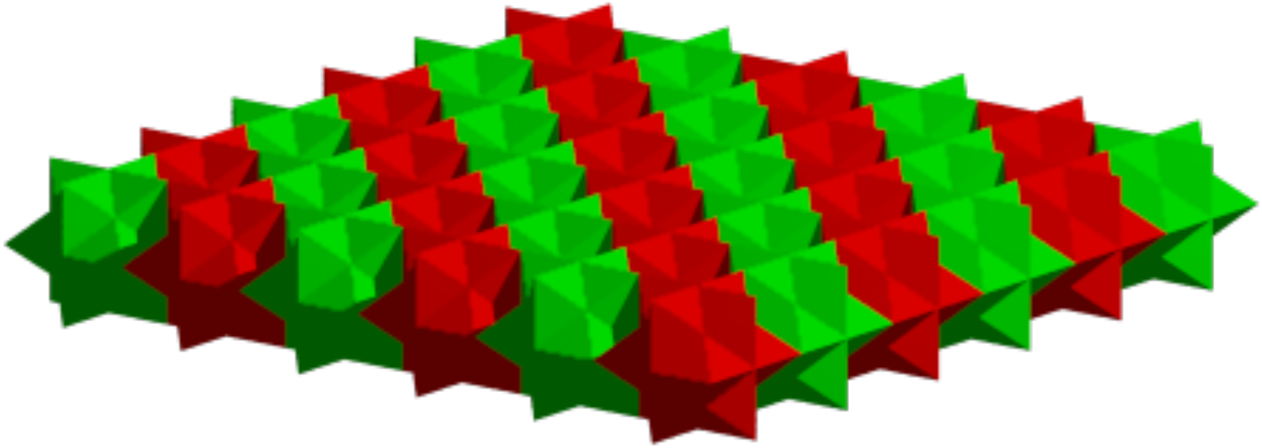
Star



Spacefiller

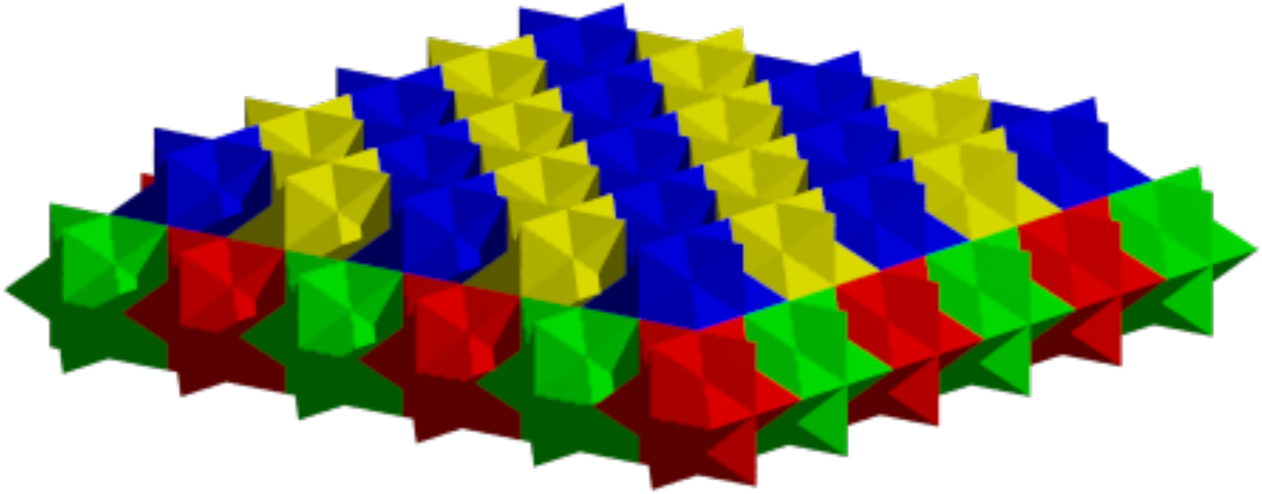


Star



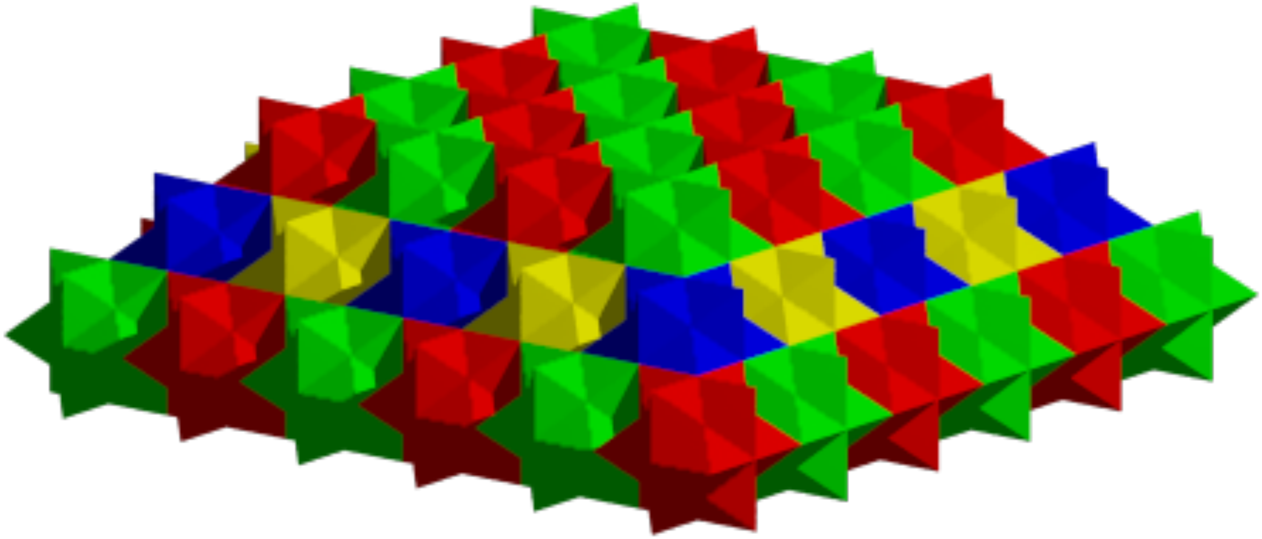
Spacefiller

Star



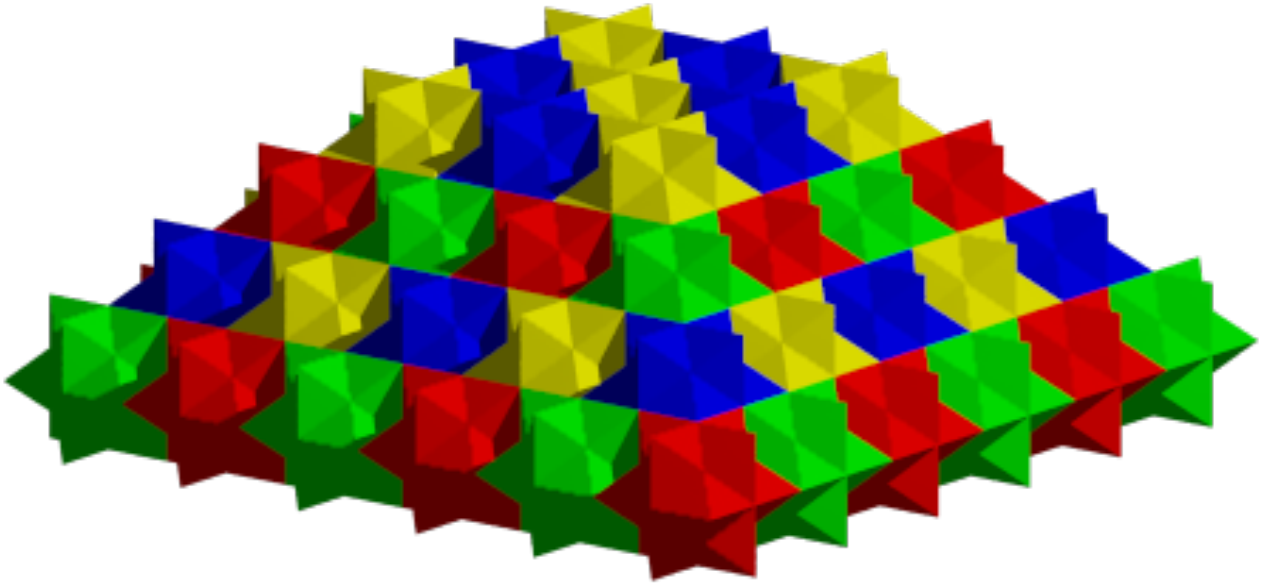
Spacefiller

Star



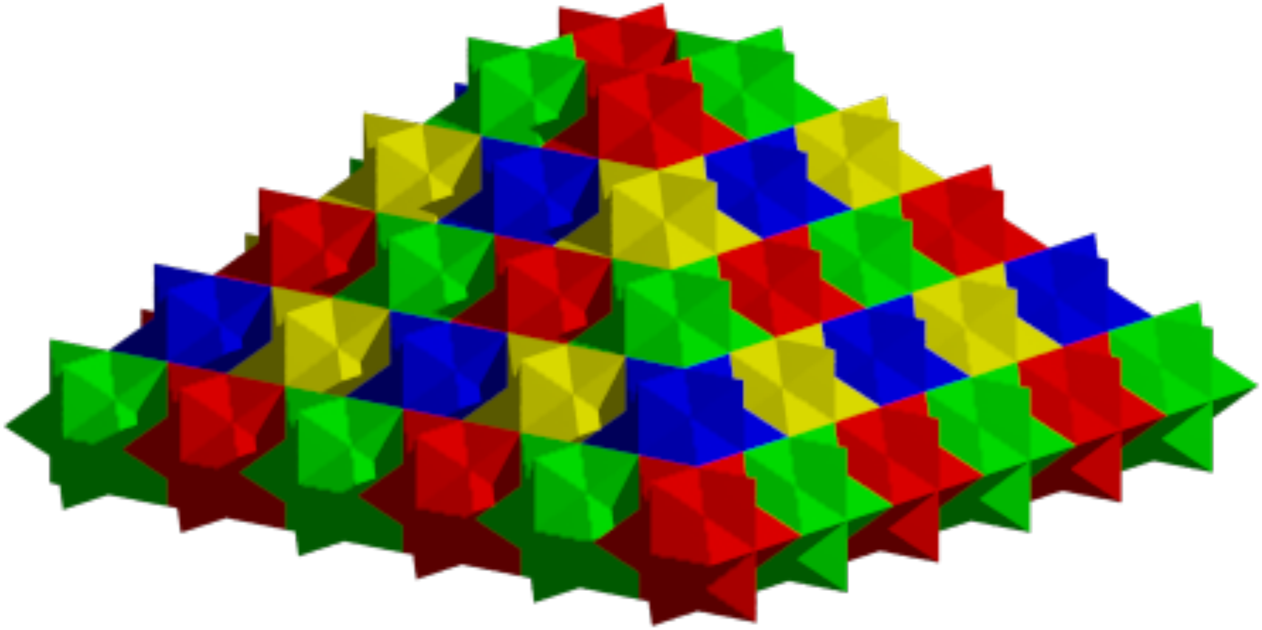
Spacefiller

Star



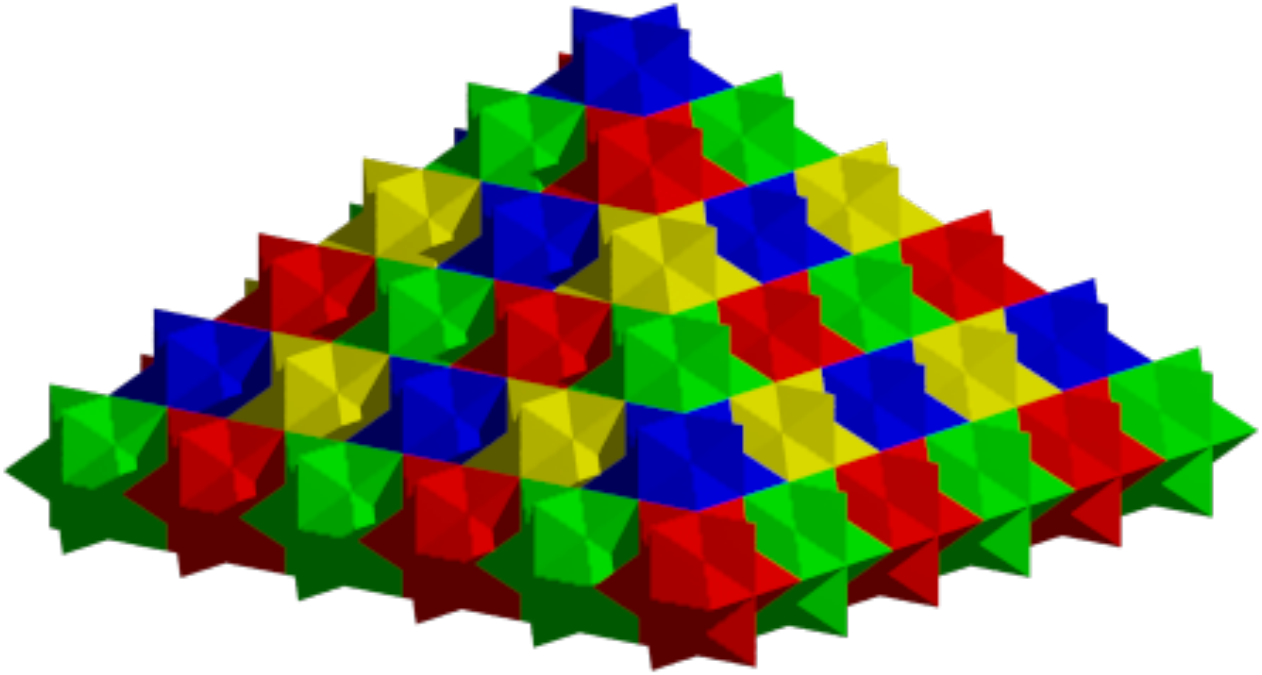
Spacefiller

Star



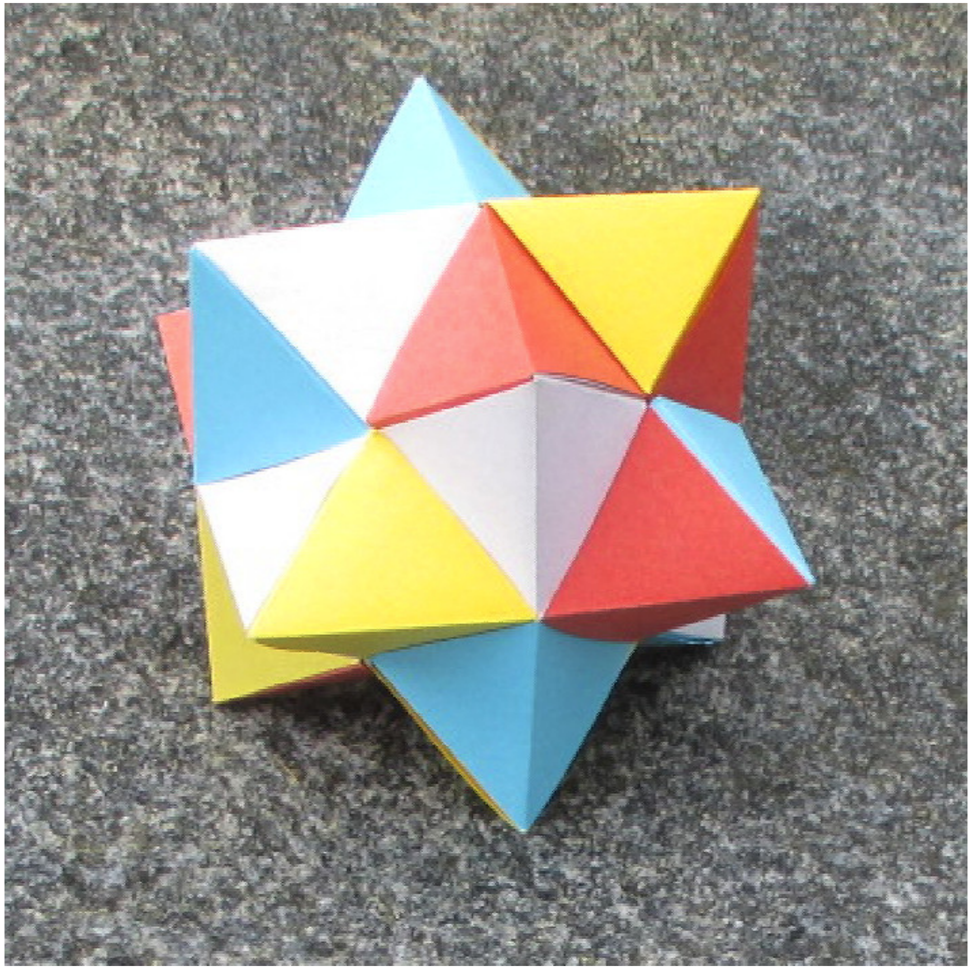
Spacefiller

Star



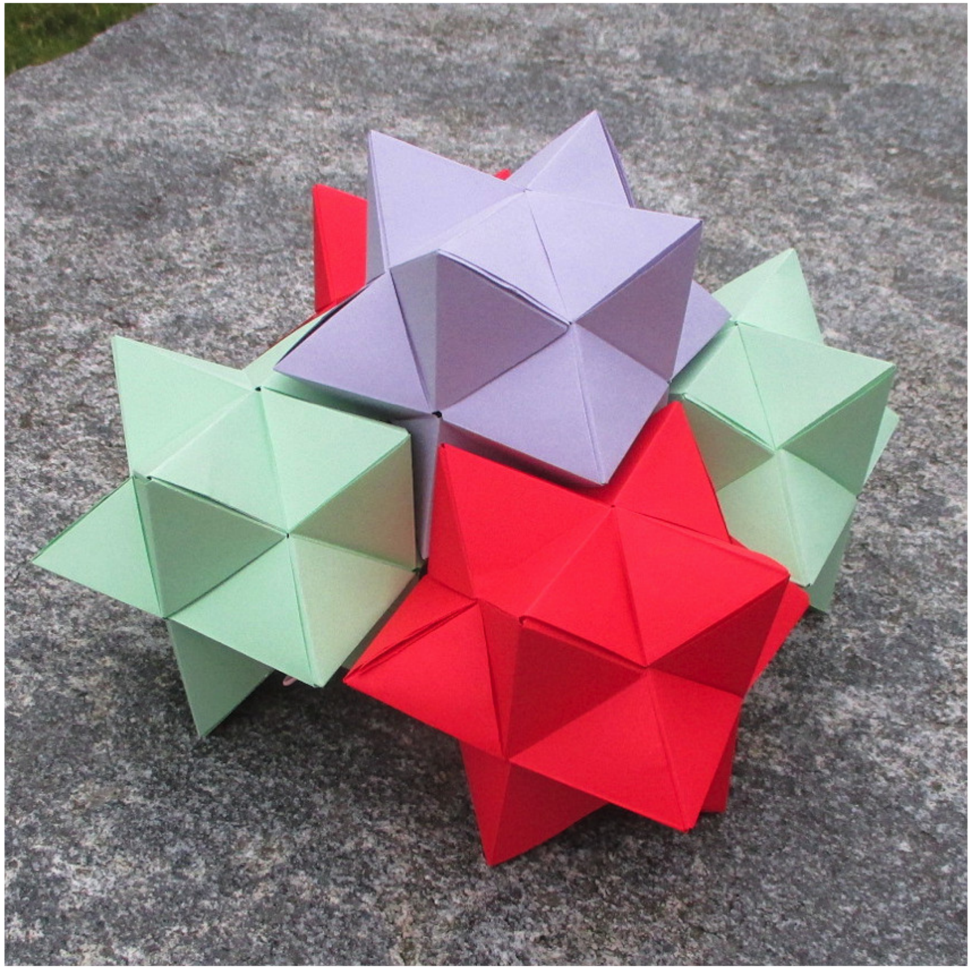
Spacefiller

Star



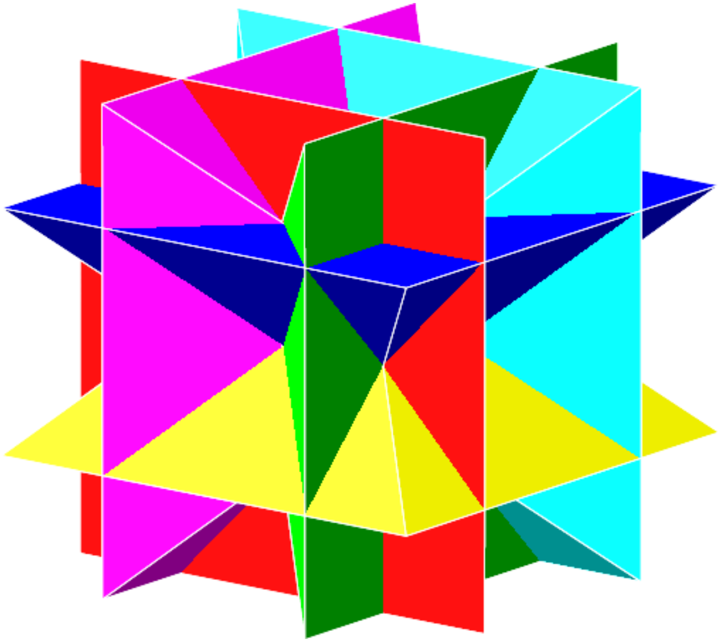
Spacefiller

Star



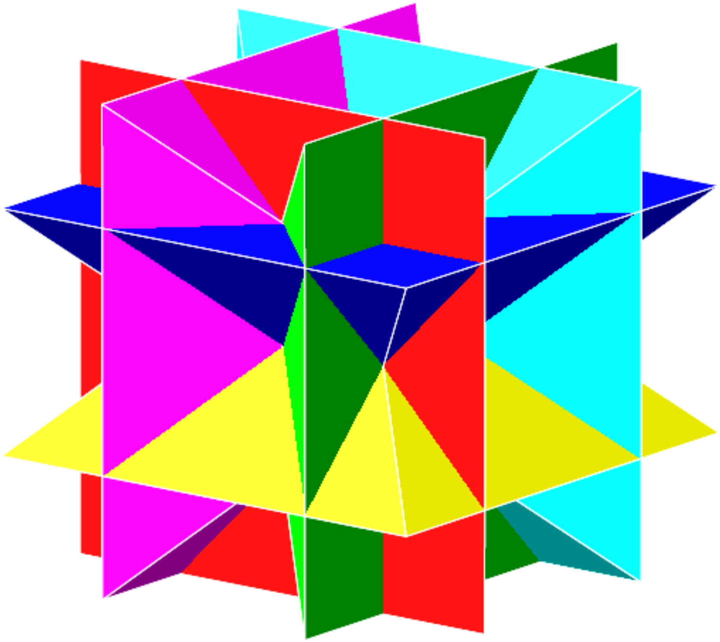
Spacefiller

Other star



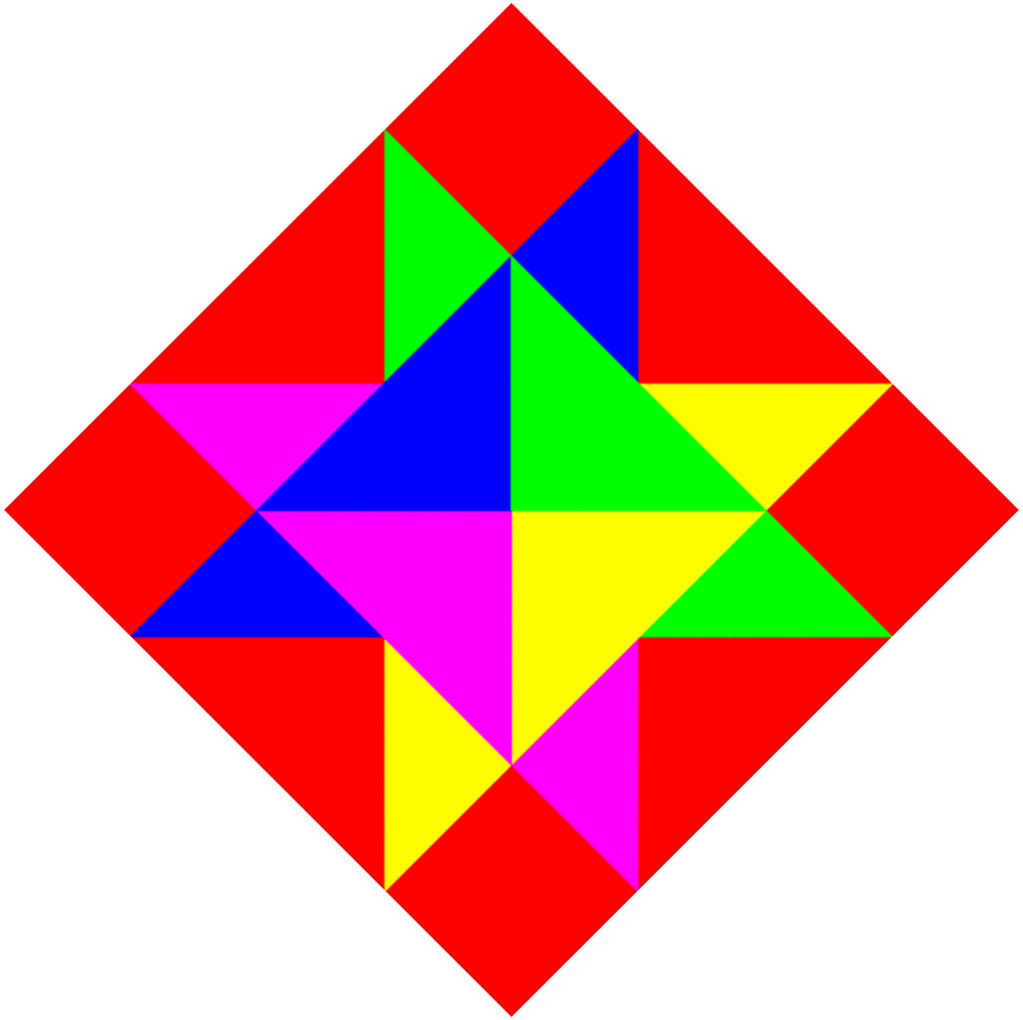
No spacefiller

Other star

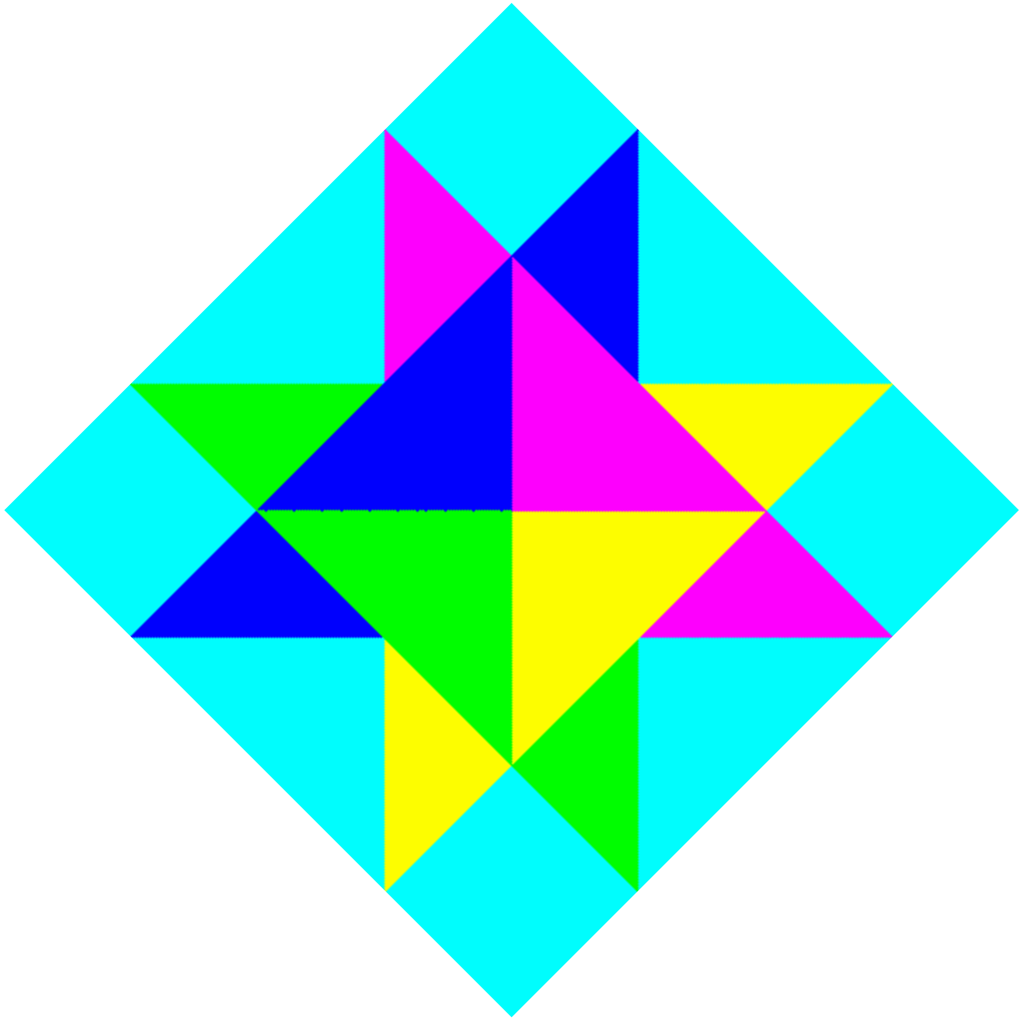


No spacefiller

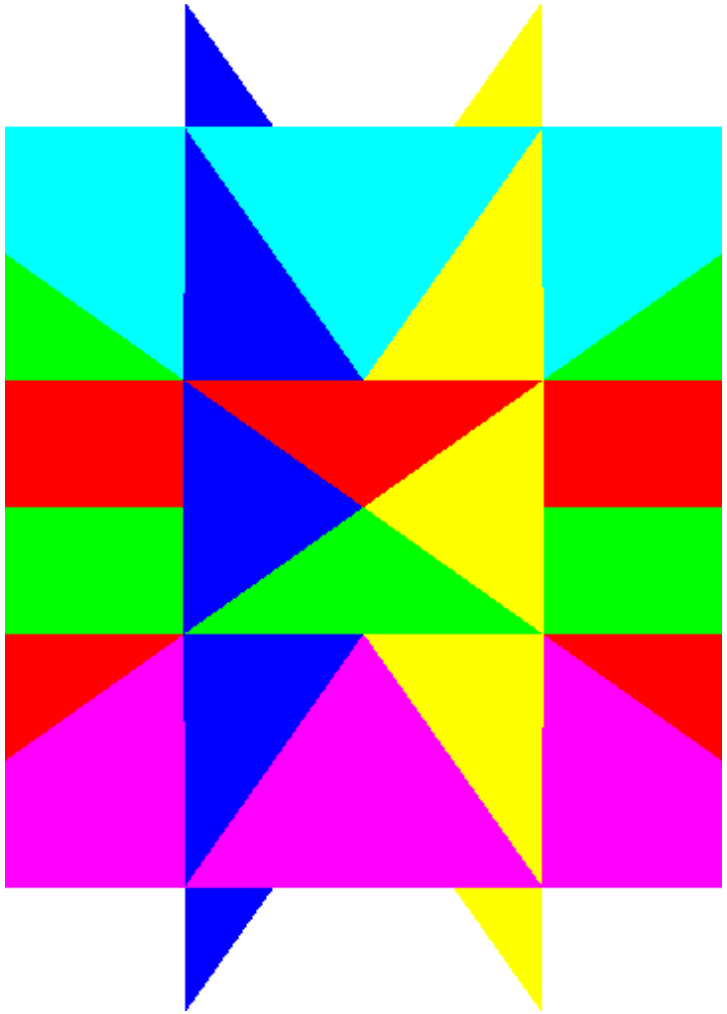
Special view



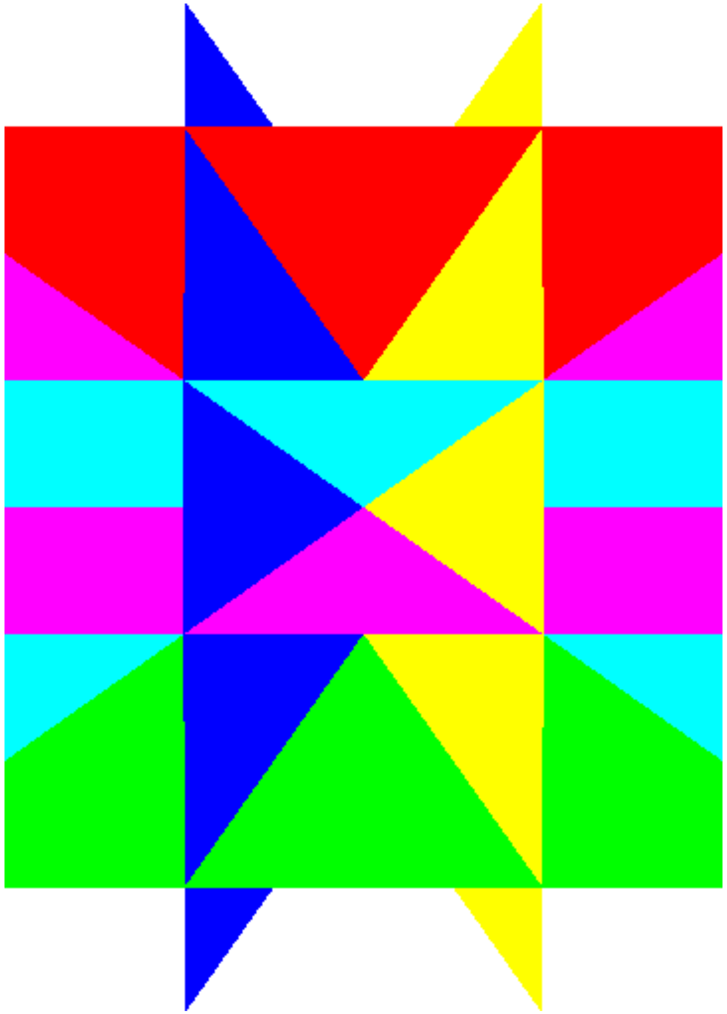
Special view

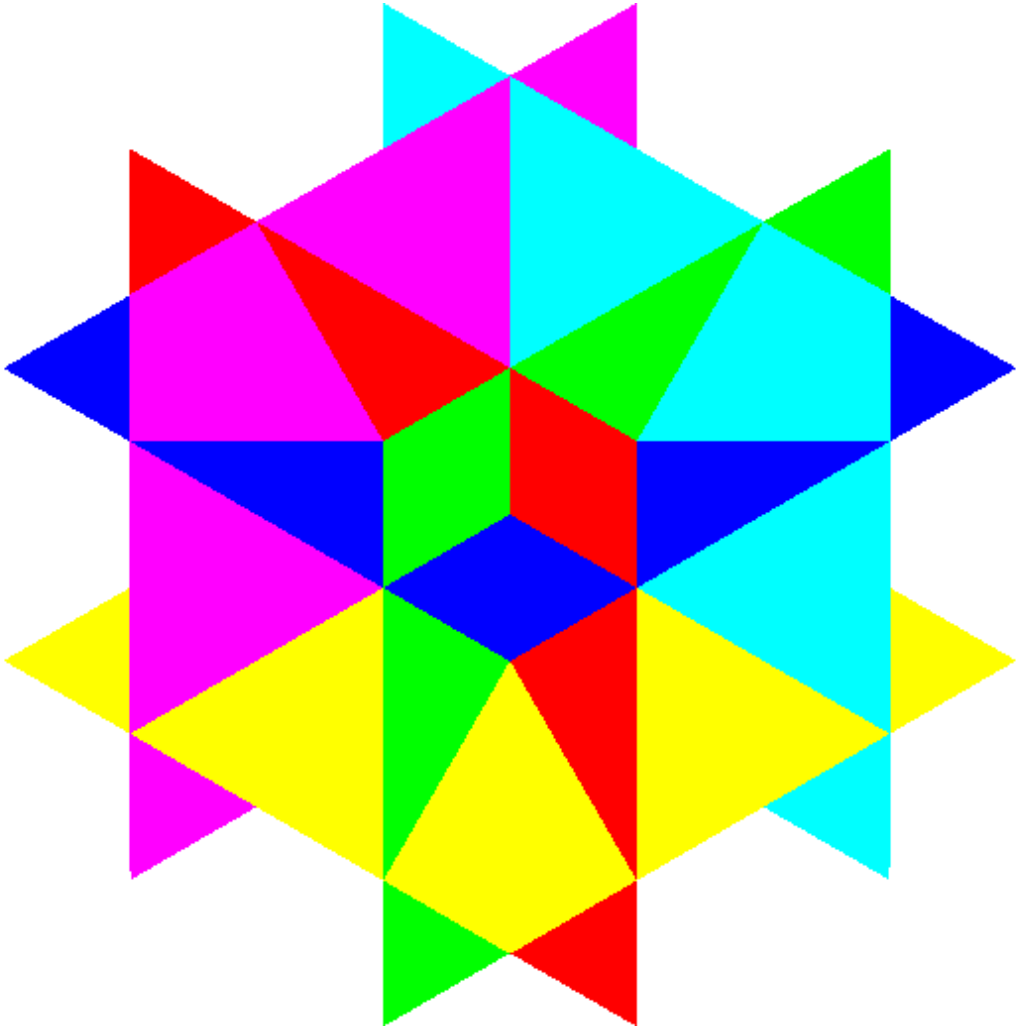


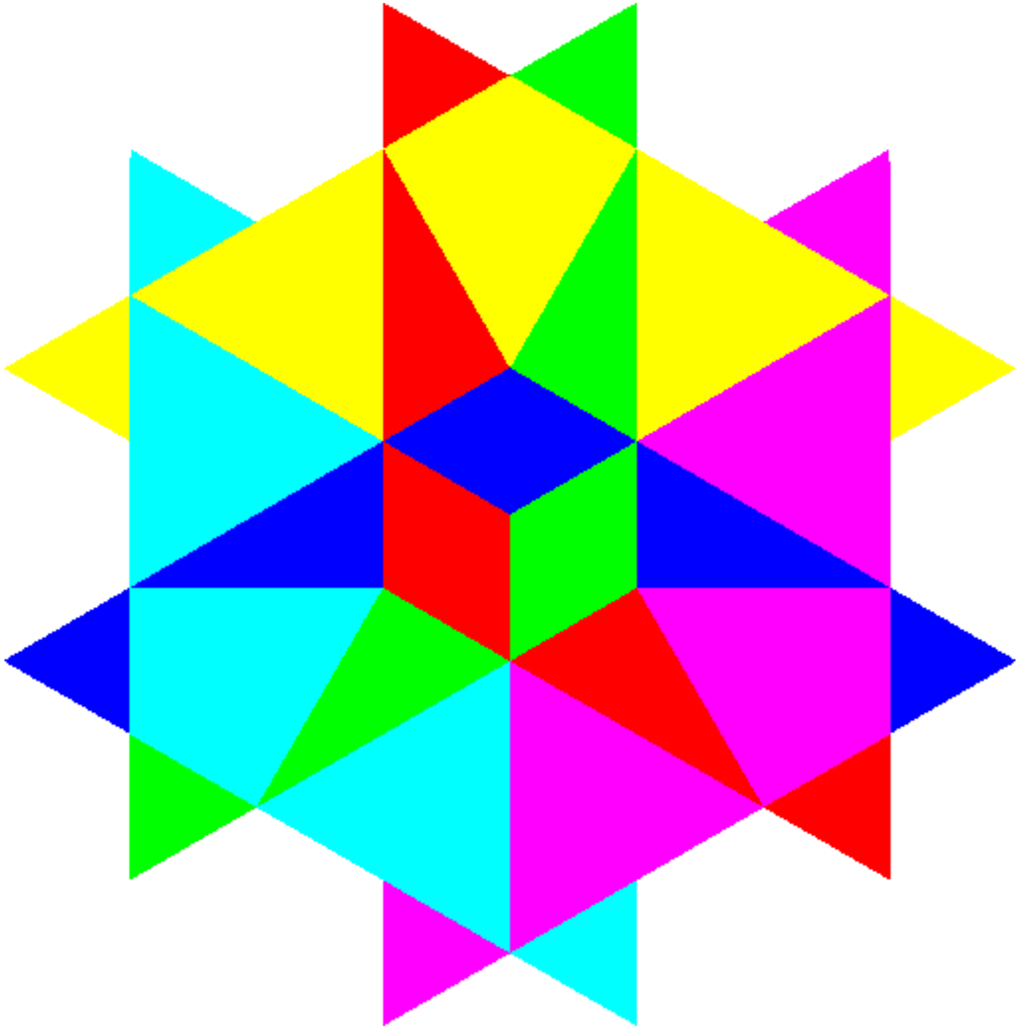
Special view



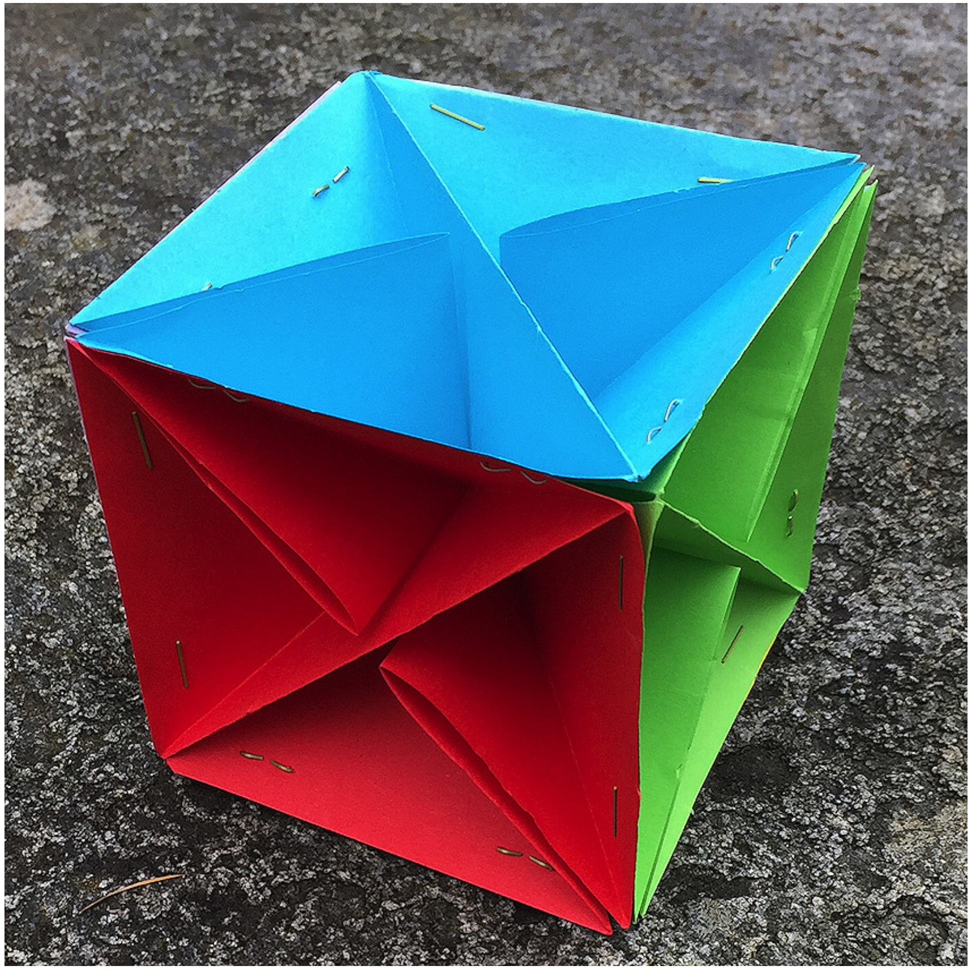
Special view







Thank you



www.walser-h-m.ch/hans/Vortraege/20220407