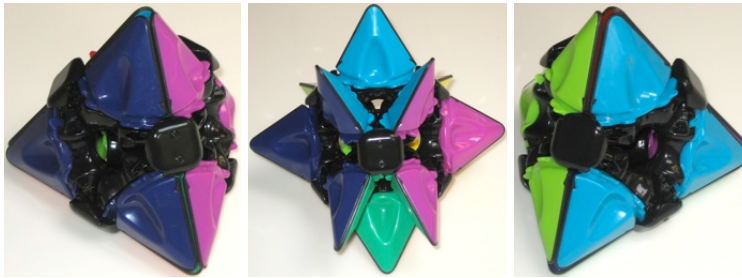


# Brain Twist



Patented by C. Hoberman and M. Davis 2005, made by Hoberman Designs.  
(plastic, each edge of the pyramid shape is 4.75 inches)

Below are the directions that came with the puzzle. *Jaap's Page* presents a solution and relates it to that for the *Dino Cube*, *Rainbow Cube*, and *Platpus*.

**State A**      **State B**

**The Geometry of the Brain Twist**

- The Brain Twist is a tetrahedron (a three-sided pyramid) in its closed state. It flips into a 12-point star and then into a new tetrahedron.
- The puzzle has a total of eight colors, four colors for each of the two tetrahedrons.
- The corners of each tetrahedron are spun to solve the puzzle.
- There are 12 total moving petals, each with two colors.
- Each petal has a unique color combination.

**What does this mean?** Only one Petal is Red/Purple, only one Petal is Yellow/Blue, etc.

(1)

**How Do I Solve the Brain Twist?**

## Flip Twist

Spin each corner until it snaps into place.

Separate three petals of a corner and flip the puzzle "inside-out."

**Two Possible Solutions...**

**#1**  
Match up the colors on each face

**#2**  
For an even greater challenge... Match up the colors on each corner

(2)

**Helpful Hints**

- To solve the puzzle, start by solving one face and gradually work your way around the puzzle solving adjacent faces. Use the Solution Color Key on the right as your guide.
- Maintain your orientation! Keep the puzzle in the same position as you continue to work on the rest.
- Whenever you get stuck, study the puzzle in the 12-point star position and compare it to the Solution Color Key.

**Troubleshooting**

**What do I do if my puzzle won't flip?**  
If the puzzle is stuck in one tetrahedron, try spinning the four corners until you hear them snap into position.

(3)

**Solution Color Key**

light green red>purple>orange	yellow>blue>light green
purple light green>green>blue	magenta light green>blue>yellow
blue magenta>purple>red	yellow magenta>red>orange
orange light green>yellow>light green	dark green orange>purple>magenta

(4)

## Further Reading

*Jaap's Page*, from: <http://www.geocities.com/jaapsch/puzzles/dinocube.htm>

*Hoberman and Davis Patent*, from: [www.uspto.gov](http://www.uspto.gov) - patent no. 7,125,015