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Pyraminx

The **Pyraminx**, also known as the **triangle Rubik's Cube**



[\(https://ruwix.com/the-rubiks-cube/\)](https://ruwix.com/the-rubiks-cube/) is a tetrahedron-shaped 3-layered twisty puzzle [\(https://ruwix.com/twisty-puzzles/\)](https://ruwix.com/twisty-puzzles/), having four triangular faces which are all divided into nine identical smaller triangles.

puzzles/void-cube/)

2x2x2 Rubik's Cube
(<https://ruwix.com/twisty-puzzles/2x2x2-rubiks-cube-pocket/>)

Edges Only Void Cube
(<https://ruwix.com/twisty-puzzles/edges-void-cube/>)

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(<https://ruwix.com/twisty-puzzles/2x2xn-cuboid-puzzles/>)

4x4x4 Rubik's Cube
(<https://ruwix.com/twisty-puzzles/4x4x4-rubiks-cube-rubiks-revenge/>)

5x5x5 Rubik's Cube
(<https://ruwix.com/twisty-puzzles/5x5x5-rubiks-cube-professors-cube/>)

NxNxN Big Cubes
(<https://ruwix.com/twisty-puzzles/big-cubes-nxn-n-solution/>)

Cuboid (<https://ruwix.com/twisty-puzzles/cuboid/>)

1x3x3 Floppy Cube
(<https://ruwix.com/twisty-puzzles/super-floppy-cube/>)

2x3x3 Domino Cube
(<https://ruwix.com/twisty-puzzles/2x3x3-domino-cube/>)

3x3x4 Rubik's Cube
(<https://ruwix.com/twisty-puzzles/3x3x4-rubiks-cube-cube4you/>)

5x3x3 and 7x3x3
(<https://ruwix.com/twisty-puzzles/5x3x3-and-7x3x3-rubiks-cube-cube4you-c4y/>)

Kilominx (<https://ruwix.com/twisty-puzzles/kilominx/>)

Megaminx (<https://ruwix.com/twisty-puzzles/megaminx-gigaminx-teraminx-petaminx/>)

Gear Cube (<https://ruwix.com/twisty-puzzles/gear-cube-extreme-ultimate-how-to-solve-gearcube-solution/>)

Gear Shift Puzzle
(<https://ruwix.com/twisty-puzzles/gear-shift-puzzle/>)

Pyraminx (<https://ruwix.com/twisty-puzzles/pyraminx-triangle-rubiks-cube/>)

Master Pyraminx
(<https://ruwix.com/twisty-puzzles/pyraminx-triangle-rubiks-cube/master-pyraminx/>)

This is the second best selling puzzle toy in the World after the Rubik's Cube with over 100 million pieces sold.

It was invented by **Uwe Mèffert** ([/twisty-puzzles/designers/](https://ruwix.com/twisty-puzzles/designers/)) (Germany) in 1971 but it was patented only later seeing the success of the Rubik's Cube in 1981. Meffert invented several other famous puzzles like the **Megaminx** ([/twisty-puzzles/megaminx-gigaminx-teraminx-petaminx/](https://ruwix.com/twisty-puzzles/megaminx-gigaminx-teraminx-petaminx/)), **Skewb** ([/twisty-puzzles/skewb-pyraminx-mod-skewb-diamond/](https://ruwix.com/twisty-puzzles/skewb-pyraminx-mod-skewb-diamond/)), **Skewb Diamond**, **Teraminx**, **Dogic** (icosahedron-shaped puzzle), and the list goes on. Other inventors were inspired by the 4-axle mechanism, Tony Fisher used it for the Golden Cube and Golden Egg. The first official **WCA** ([/the-rubiks-cube/rubiks-cube-competitions-wca/](https://ruwix.com/the-rubiks-cube/rubiks-cube-competitions-wca/)) Pyraminx competition was organized in 2003 and the winner was the American Andy Bellenir who solved the puzzle in 14.09 seconds. These days the best results range from 1.3 to 3 seconds.



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Skewb (<https://ruwix.com/twisty-puzzles/skewb-pyraminx-mod-skewb-diamond/>)

Dino Cube (<https://ruwix.com/twisty-puzzles/dino-cube/>)

Helicopter Cube (<https://ruwix.com/twisty-puzzles/helicopter-cube/>)

Curvy Copter (<https://ruwix.com/twisty-puzzles/curvy-copter/>)

DaYan Gem (<https://ruwix.com/twisty-puzzles/dayan-gem-3-jumble-solution/>)

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Ivy Cube (<https://ruwix.com/twisty-puzzles/ivy-cube/>)

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Neo Cubes (<https://ruwix.com/twisty-puzzles/neo-cubes-magnetic-balls-puzzle/>)

Online Pyraminx Solver ([https://rubiks-cube-programs \(/rubiks-cube-programs/\) solver.com/pyraminx/](https://rubiks-cube-programs (/rubiks-cube-programs/) solver.com/pyraminx/))

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Start the Pyraminx simulator ([/online-puzzle-simulators/pyraminx-simulator.php](https://online-puzzle-simulators/pyraminx-simulator.php))

The Pyraminx family



The first puzzle on the image is not a 2x2 (<https://ruwix.com/twisty-puzzles/2x2x2-rubiks-cube-pocket/>). Pyraminx because that would be too simple where you would only have to turn the peaks and that would solve it instantly.

The **Pyramorphix** is actually a 2x2 shape mod (<https://ruwix.com/twisty-puzzles/3x3x3-rubiks-cube-shape-mods-variations/>).

The third one is a **Master Pyraminx**, the 4x4 (<https://ruwix.com/twisty-puzzles/4x4x4-rubiks-cube-rubiks->

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Scrambler (/puzzle-scramble-generator)

Latest News (/rubiks-blog/)

Rubik's Cube World Record:
SeungBeom Cho 4.59
(<https://ruwix.com/seungbeom-cho-rubiks-cube-record-459/>)

Rubik's Cube World Record - Patrick Ponce 4.69 (<https://ruwix.com/rubiks-cube-world-record-patrick-ponce-4-69/>)

Rubik's Cube World Championships 2017 Paris (<https://ruwix.com/rubiks-cube-world-championships-2017-paris/>)

Feliks Zemdegs world record average: 5.97 seconds (<https://ruwix.com/feliks-zemdegs-world-record-average-5-97-seconds/>)

Non-Cubers say the Darndest Things (<https://ruwix.com/non-cubers-say-darndest-things/>)

Cube 3x3 Competition - Write and Win! (<https://ruwix.com/cube-3x3-competition/>)

Feliks Zemdegs World Record: 4.73s (<https://ruwix.com/feliks-zemdegs-rubiks-world-record-2016-4-73/>)

Mats Valk World Record: 4.74s (<https://ruwix.com/mats-valk-rubiks-cube-world-record-4-74/>)

Why Speedcubers Dislike Rubik's Branded Products (<https://ruwix.com/why-rubiks-brand-cube-disliked-hated/>)

Tony Fisher's largest Rubik's Cube (<https://ruwix.com/tony-fisher-presents-the-worlds-largest-rubiks-cube/>)

revenge/) version of the puzzle.

It might be hard to believe that the Skewb (<https://ruwix.com/twisty-puzzles/skewb-pyraminx-mod-skewb-diamond/>) is a Pyraminx shape mod. If you take apart (<https://ruwix.com/the-rubiks-cube/how-take-apart-disassemble-the-rubiks-cube-and-put-back-together/>) the two puzzles you can see that they're both built on a similar core mechanism.

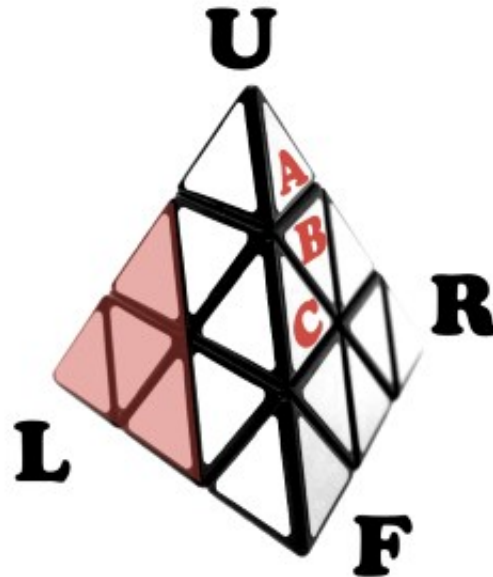
How to solve a Pyraminx

Solving a Pyraminx is much easier than a Rubik's Cube. It has 3,732,480 possible permutations which is relatively a small number (similar to the 2x2x2 Pocket Cube (<https://ruwix.com/twisty-puzzles/2x2x2-rubiks-cube-pocket/>)), so a personal computer can easily go through all of the possible scrambles (</puzzle-scramble-generator/?type=pyraminx&amount=5&length=25&var=8>). It can be solved from any random position in less than 12 moves. I'm presenting below the



easiest solution where you only have to learn a couple algorithms.

1. Notation



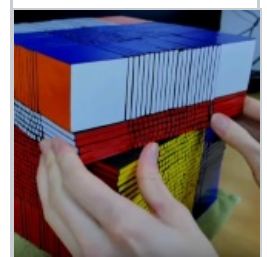
Let's mark the four corners of the puzzle with letters, just like in the notation of the Rubik's Cube (<https://ruwix.com/the-rubiks-cube/notation/>), a letter by itself means a clockwise 120° turn of the corner and an apostrophe marks a counterclockwise turn (eg. **R'**). We are going to use these letters to describe algorithms (<https://ruwix.com/the-rubiks-cube/algorithm/>) in this tutorial. For example: **L' F L F'**

We can easily notice that there are three types of pieces: Corner tips (**A**), centers having three stickers



Funny Images

(/the-rubiks-cube/rubiks-cube-memes/)



22 x 22 x 22 Cube

(/the-worlds-largest-cubic-nxn-rubiks-cube-puzzle-22x22x22/)

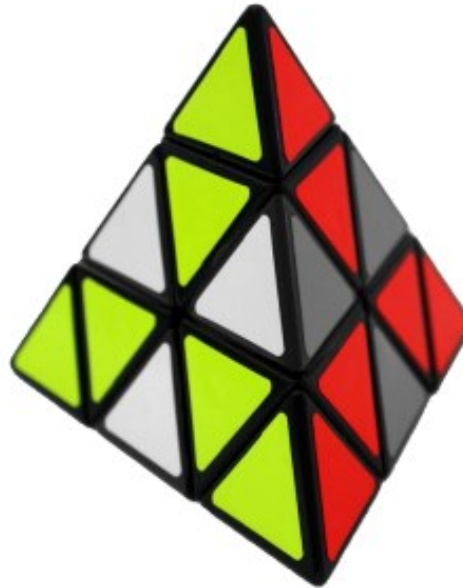


Geek Prank

(<http://geekprank.c>

(**B**) and edges with two stickers
(**C**).

2. Solving the tips and centers



The solution of the Pyraminx begins with turning the 4 corners (**A**) to match the center pieces. This is just a simple turn for each corner because the three sides of the center pieces (**B**) are linked together. When the tips are OK, deep turn the puzzle to make the three center colors match on all faces. Try to reach the state on the image above! When you're done all that's left is solving the remaining 6 edge pieces (**C**).

3. Two edges next to one corner



Architectre

(/the-rubiks-cube/popular-culture/buildings-architecture/)

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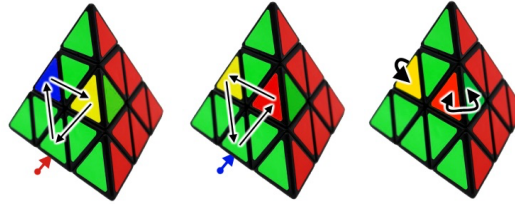
In this stage we want to solve three edges around the top corner. Use the Right and Left algorithms below depending on the direction of the insertion. These leave the pieces marked with the asterisk (*) in place. Usually you'll need an algorithm for the last piece because the first two can be solved intuitively.

Right algorithm: **R F R' F'**

Left algorithm: **L' F' L F**

4. Last layer edges

All that's left is to permute/cycle the last layer edges. Take the puzzle in your hands with the scrambled face on the left and perform the required turns, depending on your case.



Clockwise cycle: **U' F U F'**

Counterclockwise cycle: **U L' U' L**

Flip tow edges: **F U' F' U F' L F L'**

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lol

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lol indeed

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