

3x3x3 cube puzzle solution

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3x3x3 Cube Puzzle Solution: A Comprehensive Guide

The iconic 3x3x3 cube puzzle, also known as Rubik's Cube, has captivated puzzle enthusiasts for decades. Solving it requires a combination of strategy, algorithms, and patience. This article aims to provide a comprehensive guide to solving the 3x3x3 cube puzzle, addressing common questions and offering step-by-step instructions.

Question 1: How do I start solving the 3x3x3 cube? Answer: Begin by solving the white face, then match the edge pieces of the second layer to the corresponding center pieces. Once the second layer is complete, solve the third layer by positioning the corners, then the edges. Finally, orient and permute the top face pieces to complete the cube.

Question 2: What are the basic moves? Answer: There are six basic moves used in solving the 3x3x3 cube: F (front face), B (back face), L (left face), R (right face), U (top face), and D (bottom face). Primes (') denote counterclockwise rotations, and inverse primes (") denote single half-rotations.

Question 3: How do I solve the white cross on the first layer? Answer: Hold the cube with the white face on top. Position the edge pieces with white and another color on the front and right sides. Follow the algorithm: F R' F' (for the right edge) or F R F' R' (for the left edge). Repeat until the white cross is complete.

Question 4: How do I orient the middle layer edges? Answer: Hold the cube with the unsolved edges on the second layer facing you. Follow the algorithm: R U R' U' R U² R'. This moves the incorrectly oriented edge to the front bottom position. Repeat until all middle layer edges are oriented correctly.

Question 5: How do I solve the last layer corners and edges? Answer: Position the top face corner piece correctly using the algorithm: $R\ U\ R'\ U'\ R'\ F\ R^2\ U'\ R'$. Orient the edges by following the algorithm: $R\ U\ R'\ U'\ R\ U^2\ R'$ (clockwise) or $L'\ U'\ L\ U\ L'\ U^2\ L$ (counterclockwise). Permute the corners using the algorithm: $R\ U\ R'\ U'\ R\ B\ U\ R'\ U'\ R\ B'$ (for one cycle). Repeat until the cube is solved.

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