Solve the Rubik's Cube in 10 Steps

This guide uses standard Rubik's cube notation.

Notation

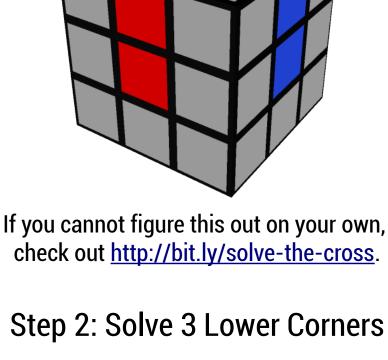
U means upper face. D means down face. L means left face. R means right face. F means front face. B means back face.

at the face). A letter followed by a 2 means a 180° turn of that face. A letter followed by a 'means a counter-clockwise turn of that face. A lowercase letter means to turn a face plus the middle face behind it. Always hold the cube so that it has a top, bottom and front. In the

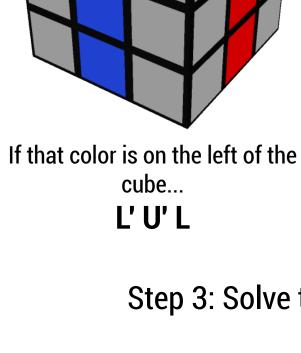
A single letter means a 90° turn of that face clockwise (when looking

pictures in this guide, the front face is turned slightly left so that you can see the right side. A side's color is determined by it's center color.

Step 1: Solve the Cross with Correct Edges



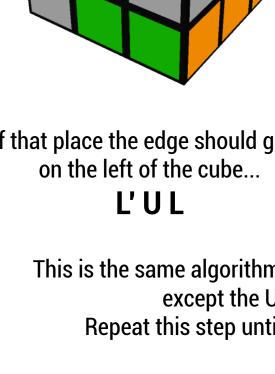
Turn the cube yellow-side up. Find a corner with white facing sideways in the upper layer. Bring the non-white sideways-facing color to the side it belongs on.

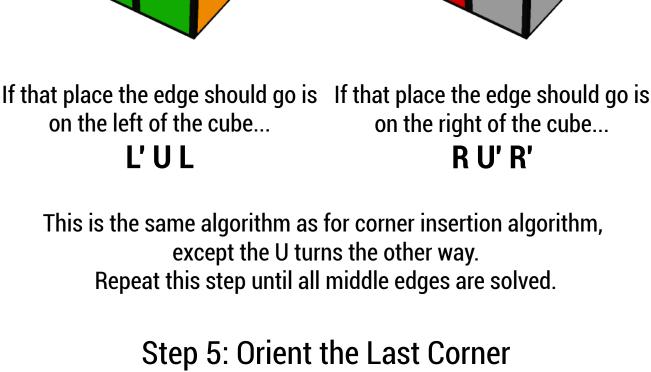


If that color is on the right of the cube... RUR' Step 3: Solve the Middle Edges Find an edge in the upper layer that has no yellow.

Bring the edge to the side that has the color of the top of the edge.

Place the unsolved corner under the place where the edge will go.





If the white is on the left side of the piece, move the it to the back-left (perform a U2) If the white is on the left side of the piece, move the it to the back-right (perform a U')

If the white is on the top of the piece, skip this step.

Perform 3 cycle moves.

Find the last corner in the upper layer with white.

Place it in the upper-right-front position.

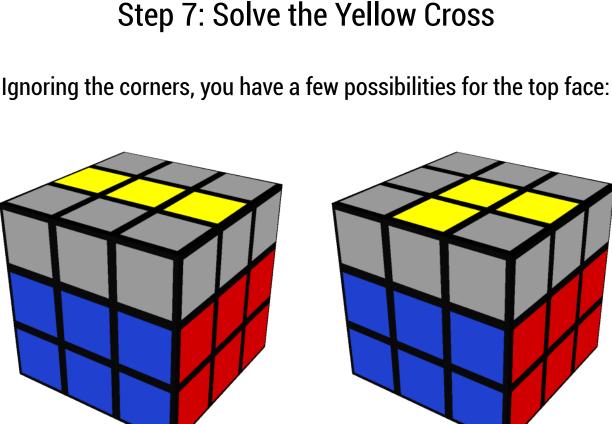
The cycle move: R U R' U'

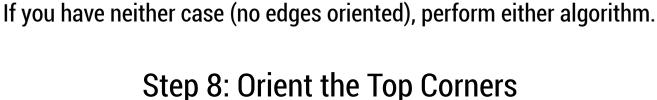
Step 6: Solve the Last Corner

Rotate the cube so that the bottom-right has the unsolved corner.

Place the unsolved corner above the unsolved corner.

Perform 3 cycle moves.





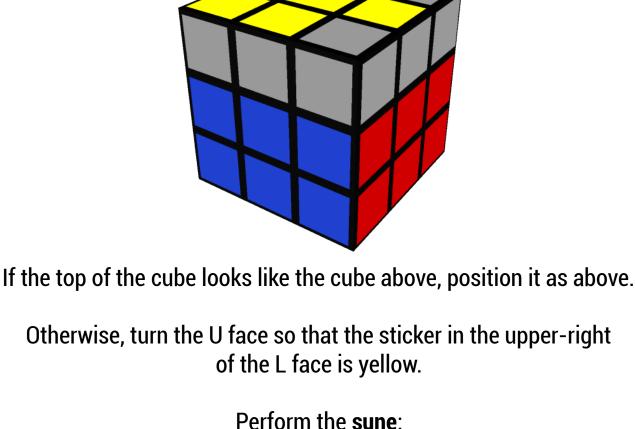
If your cross is completed, you can skip this step.

If you have a line, make it

horizontal and execute...

FRUR'U'F'

or F cycle F'



RUR'URU2R'

If such a side does not exist, face any side away from you.

Perform the corner-swap (A-perm): R' F R' B2 R F' R' B2 R2 U' Determine whether they need to move clockwise or counter-clockwise.

Congratulations! You have solved the cube!

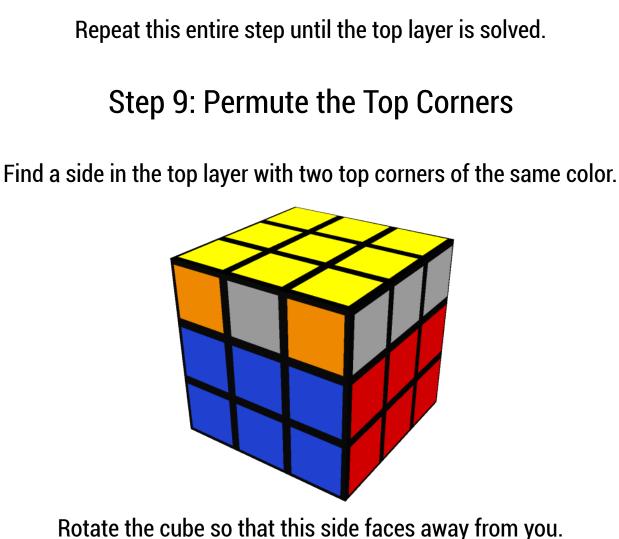
Check out tiny.cc/algs for just the algs in this guide.

Mastered this guide? Check out tiny.cc/solveitfaster to get faster!

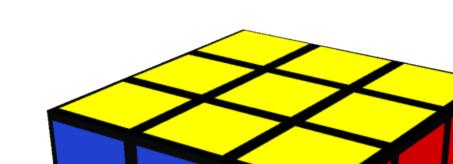
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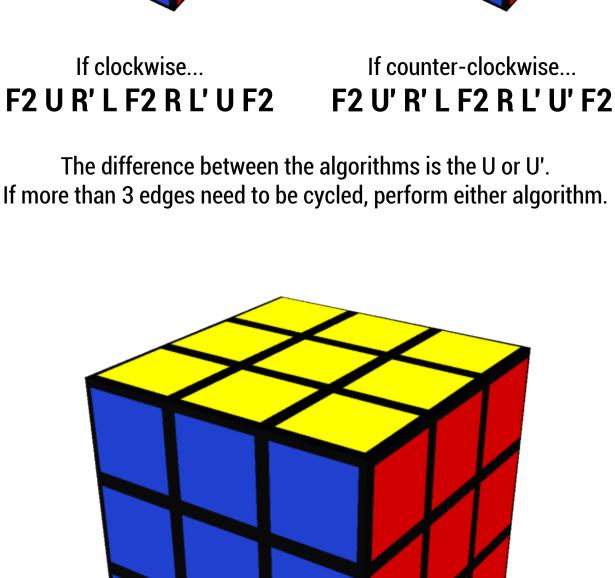
Contact me at cubequide@matthewmcmillan.me with any questions or comments!

Images generated using <u>ICube</u> by Josef Jelinek



If your corners do not match up on all sides, repeat the step again. Step 10: Permute the Top Edges Face the solved side that isn't yellow or white to the back. Find the three edges that need to be cycled.





If you have an L, rotate it as shown

and execute...

fRUR'U'f'

or f cycle f'