This guide uses standard Rubik's cube notation.

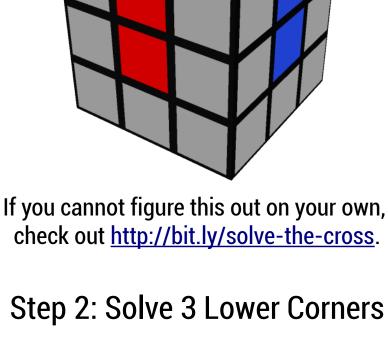
Notation

D means down face. L means left face. R means right face. F means front face. B means back face. A single letter means a 90° turn of that face clockwise (when looking

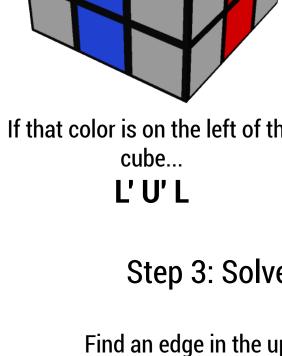
U means upper face.

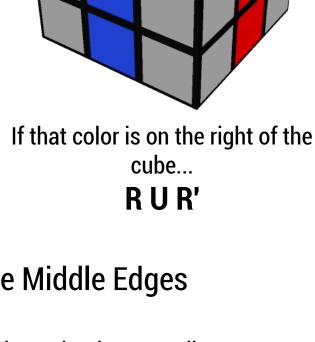
at the face). A letter followed by a 2 means a 180° turn of that face. A letter followed by a 'means a counter-clockwise turn of that face. A lowercase letter means to turn a face plus the middle face behind it. Always hold the cube so that it has a top, bottom and front. In the pictures in this guide,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



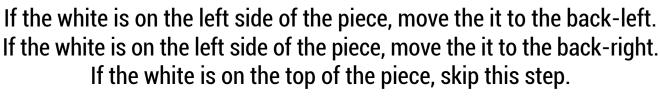
Turn the cube yellow-side up. Find a corner with white facing sideways in the upper layer. Bring the non-white sideways-facing color to the side it belongs on.

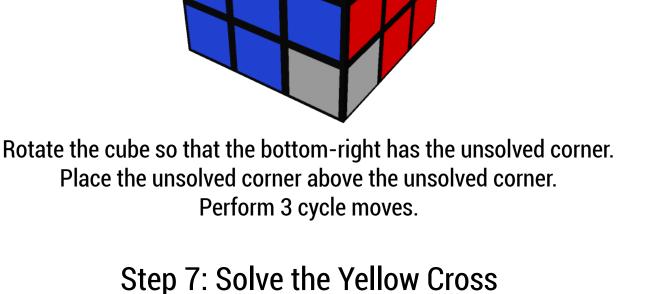




If that place the edge should go is If that place the edge should go is on the left of the cube... on the right of the cube... ĽUL RU'R'

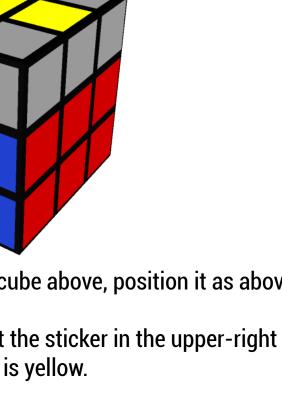
This is the same algorithm as for corner insertion algorithm,





If you have a line, make it If you have an L, rotate it as shown horizontal and execute... and execute... fRUR'U'f' FRUR'U'F'

Ignoring the corners, you have a few possibilities for the top face:



Rotate the cube so that this side faces away from you.

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'

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.

Determine whether they need to move clockwise or counter-clockwise.

Step 9: Permute the Top Corners

Find a side in the top layer with two top corners of the same color.

The difference between the algorithms is the U or U'. If more than 3 edges need to be cycled, perform either algorithm.

If counter-clockwise...

F2 U' R' L F2 R L' U' F2

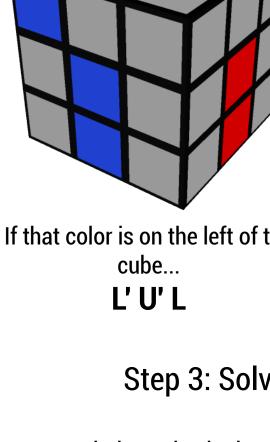
Congratulations! You have solved the cube! Check out bit.ly/alg-sheet for just the algs in this guide.

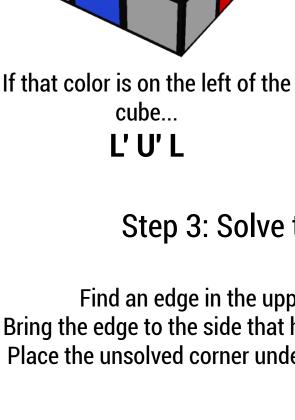
Mastered this guide? Check out bit.ly/solve-it-faster to get faster! Contact me at cubeguide@matthewmcmillan.me with any questions or

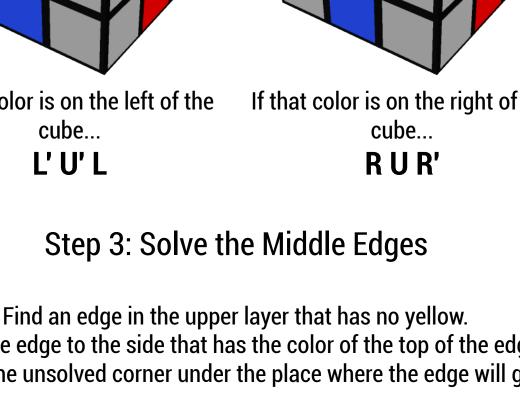


Images generated using <u>ICube</u> by Josef Jelinek

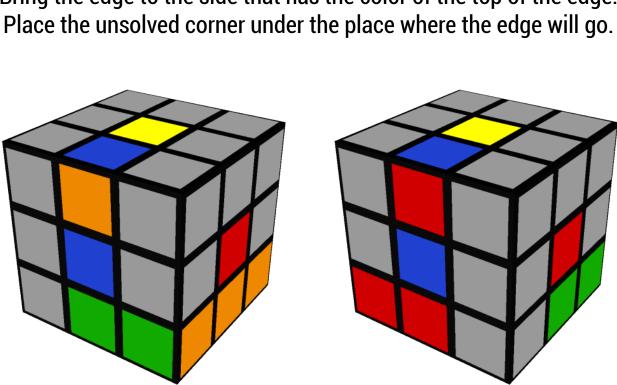






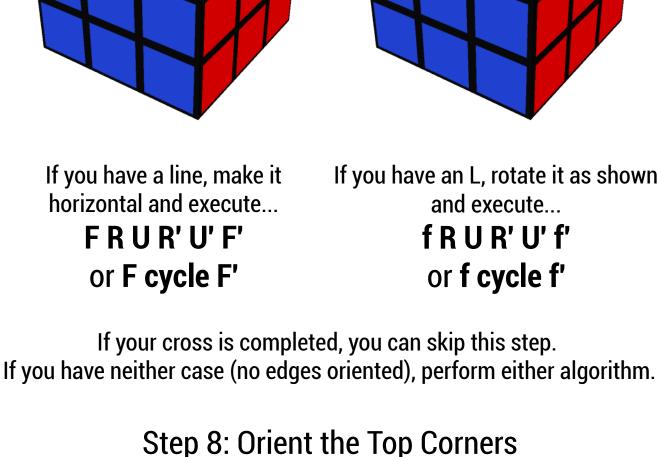


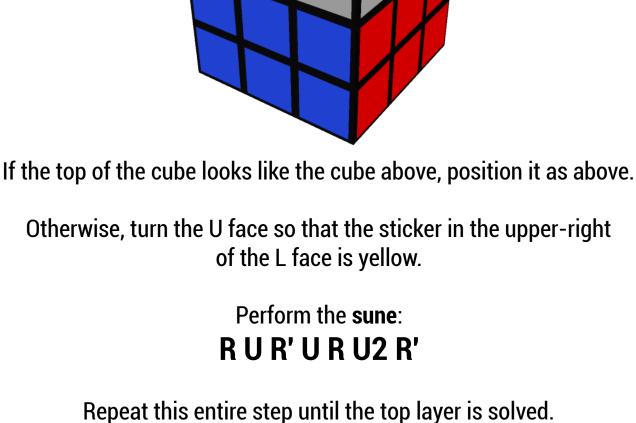
Bring the edge to the side that has the color of the top of the edge.



except the U turns the other way. Repeat this step until all middle edges are solved. **Step 5: Orient the Last Corner** Find the last corner in the upper layer with white. Place it in the upper-right-front position. Perform 3 cycle moves.

The cycle move: R U R' U' Step 6: Solve the Last Corner





If clockwise...

F2 U R' L F2 R L' U F2

