

# Rubik's cube Inside 3 Minutes

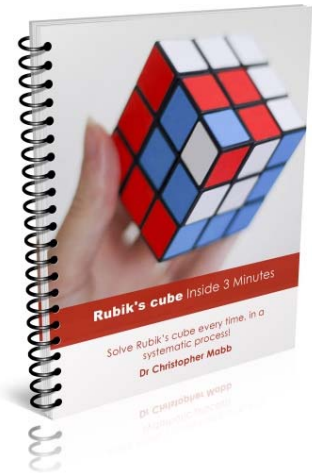
## STEP 3 – ORIENTATING THE TOP CORNERS

If all four white corners are in the correct orientation (the white sides are all on the same face), we've finished Step 3.

If not, keep white (as defined by the white-orange-green corner) on the top and turn the whole cube until one of the white corners **not** in the correct orientation is top-front-left.

### The one-third rotation

The following sequence will leave all the corners in the correct position but will change the orientation of the top-front-left cube by one-third anti-clockwise (again, if you watch the piece starting in the top-front-left corner, you'll see it return to its position during the following sequence of moves):



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## STEP 3 – ORIENTATING THE TOP CORNERS (cont)

1. Rotate the back face to the right
2. Rotate the left face to the back
3. Rotate the back face to the left
4. Rotate the bottom face to the left (anti-clockwise)
5. Rotate the back face to the right
6. Rotate the left face to the back
7. Rotate the back face to the left.

If the top-front-left cube is still not in the correct orientation, perform the one-third rotation on it again.

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## STEP 3 – ORIENTATING THE TOP CORNERS (cont)

If all four white corners are now in the correct orientation, we've finished Step 3. If not, then keep white on the top and turn the whole cube until one of the **other** white corners not in the correct orientation is top-front-left. Perform the one-third rotation once or twice (until the white side is on top).

Repeat on the other top corner pieces as necessary (until the white side is on top).

Rotate the bottom (yellow) face to align the corners correctly under their matching top corners (ie. to have the same green/orange/blue/red pairings, but with yellow instead of white).

The eight corners are now in the correct position, and the four top corners (white) are also in the correct orientation.

