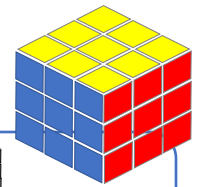


# How to Solve a Rubik's Cube



**BOTTOM**



## BOTTOM LAYER (9 blocks – 1 already solved)

### STEP 1) THE WHITE EDGES (solve 4 edge blocks)



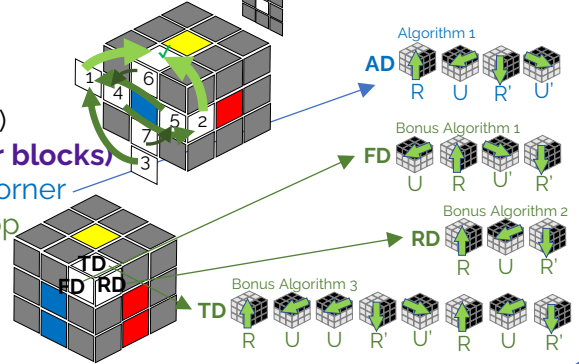
1. Find white edges
2. Flip to top - Make the **DAISY**
3. Match each edge to middle center
4. Flip edges to bottom (repeat 3&4 x4)



### STEP 2) THE WHITE CORNERS (solve 4 corner blocks)



- Algorithm 1- All Drop repeats to drop corner
- 3 Cases: (1) Bonus Algorithm 1 Front Drop  
 (2) Bonus Algorithm 2 Right Drop  
 (3) Bonus Algorithm 3 Top Drop
- TIP: Extract with RUR'



**MIDDLE**

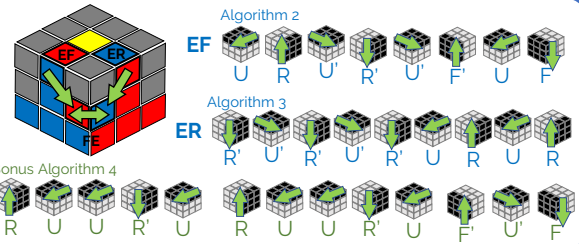


## MIDDLE LAYER (8 blocks – 4 already solved)

### STEP 3) MIDDLE EDGES (solve 4 edge blocks)



- 3 Cases: (1) Algorithm 2 - Edge on Front  
 (2) Algorithm 3 - Edge on Right  
 (3) Bonus Algorithm 4 - Flip Edges
- TIP: Extract with Algorithm 2 or 3



**TOP**

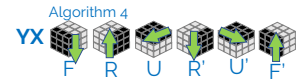
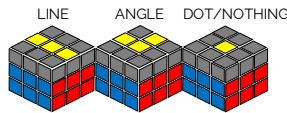


## TOP LAYER (9 blocks – 1 already solved)

### STEP 4) A YELLOW CROSS (nothing solved)



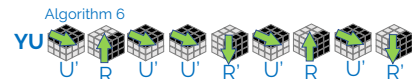
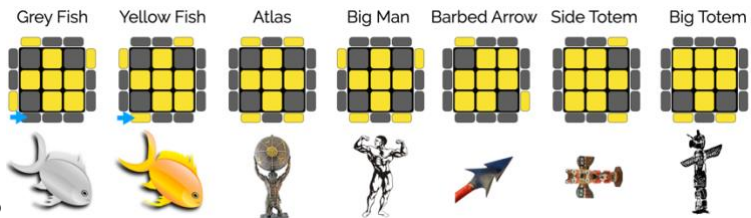
- Algorithm 4 YX-The Yellow XCross
- 3 Cases: (1) LINE - YX  
 (2) ANGLE - YX x 2  
 (3) DOT - Repeat YX



### STEP 5) YELLOW TOP SURFACE



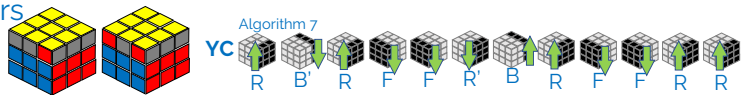
- Algorithm 5 - Yellow Right  
 Algorithm 6 - Yellow Up
- 7 Cases: (1) Grey Fish - YR  
 (2) Yellow Fish - YU  
 (3) Atlas - YR>Grey Fish>YR  
 (4) Big Man - YR>U'> Grey Fish>YR  
 (5) Barbed Arrow - YR> Yellow Fish>YU  
 (6) Side Totem - YU> Grey Fish>YR  
 (7) Big Totem - YU>U>U> Grey Fish>YR



### STEP 6) PERMUTE YELLOW CORNERS (4 blocks solved)



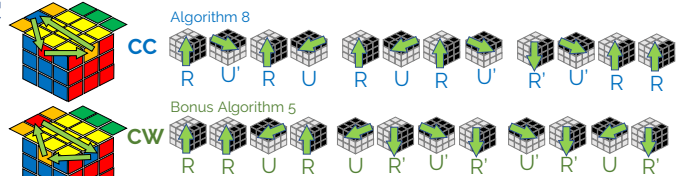
- Algorithm 7 - Yellow Corners
- Snake eyes to left of color  
 Repeat until solved



### STEP 7) ORIENT YELLOW EDGES (4 blocks solved)



- Algorithm 8-Counterclockwise  
 Bonus Algorithm 5-Clockwise
- (3) Cross - CCx2  
 (4) Adjacent edges - CCx2



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# How to Solve a Rubik's Cube

	Right	Left	Up	Down	Front	Back
Rotate Clockwise	R	L	U	D	F	B
Rotate Counter-Clockwise	R'	L'	U'	D'	F'	B'
Rotate Two Layers	r	l	u	d	f	b

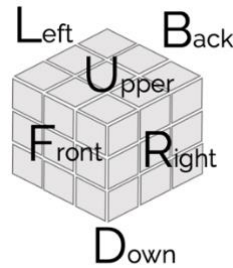
Other Rotations:

E	M	S	x	y	z
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## Track Your Progress

Number of Solves:

- 10 -  1  2  3  4  5  6  7  8  9  10
- 20 -  1  2  3  4  5  6  7  8  9  20
- 30 -  1  2  3  4  5  6  7  8  9  30
- 40 -  1  2  3  4  5  6  7  8  9  40
- 50 -  1  2  3  4  5  6  7  8  9  50



## Algorithms mastered

- Algorithm 1 - All Drop repeats to drop corner
- Algorithm 2 - Edge on Front
- Algorithm 3 - Edge on Right
- Algorithm 4 YX-The Yellow [X]Cross
- Algorithm 5 - Yellow Right
- Algorithm 6 - Yellow Up
- Algorithm 7 - Yellow Corners
- Algorithm 8 - Counterclockwise ↺
- Bonus Algorithm 1 Front Drop
- Bonus Algorithm 2 Right Drop
- Bonus Algorithm 3 Top Drop
- Bonus Algorithm 4 - Flip Edges
- Bonus Algorithm 5 - Clockwise ↻

Algorithm 1: AD R U R' U'

Algorithm 2: EF U R U' R' U' F' U F

Algorithm 3: ER R' U' R' U' R' U R U R

Algorithm 4: YX F R U R' U' F'

Algorithm 5: YR R' U U R U R' U R

Algorithm 6: YU U' R U' U' R' U R U R'

Algorithm 7: YC R B' R F' R' B R F F R R

Algorithm 8: CC R U' R U R U R U' R' U' R R

Bonus Algorithm 1: FD U R U' R'

Bonus Algorithm 2: RD R U R'

Bonus Algorithm 3: TD R U U R' U' R U R'

Bonus Algorithm 4: FE R U U R' U R U U R' U F' U' F

Bonus Algorithm 5: CW R R U R U R' U' R' U' R' U R'

## Time / Date Mastered

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